TN – IAMWARM PROJECT

ARANIYAR SUB BASIN

DETAILED PROJECT REPORT

WATER RESOURCES DEPARTMENT

1. WATER RESOURCES ORGANISATION

1.1 INTRODUCTION

1.1 INTRODUCTION

1.1.1 General

Agriculture is the dominant sector in the Indian economy. Tamil Nadu depends largely on the surface water irrigation as well as ground water irrigation. The state has used 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.

To achieve higher water use efficiency, it is necessary to improve and upgrade the existing conveyance system and also to introduce modern irrigation methods.

With the above objective, a comprehensive programme has been proposed with a Multi Disciplinary Approach.

1.1.2 Description of the Araniyar Sub Basin

The Araniar River is one of the sub basin in Chennai basin which is located in the Northen part of Chennai basin and Pulicat lake. The Araniar river originates near Karnetnagar in Nagiri hills of Chittur District of Andhra Pradesh at an altitude of 600m above MSL. The river runs in Andhra Pradesh for a distance of 65.20 Km up to Suruttapalli Anicut before entering into Tamil Nadu. Beyond this the river runs in Tamil Nadu is 66.40Km and finally confluence into Bay of Bengal near Pulicat. The river basin spreads with a total extent of 1470Sq.Km and out of which 763 Sq.Km lies in Tamil Nadu. This river segment in Tamil Nadu irrigates 174 irrigation tanks to an extent of 22319.115 Hectares.. The Araniyar sub basin is located between latitude of $13^{o}25^{'}$ to $13^{o}15^{'}$ and longitude of $79^{o}45^{'}$ to $80^{o}20^{'}$.

1.1.3 Description of the Araniyar Sub-Basin

There is one Anicut and one dam in Andhra Pradesh state boundary and two anicuts in Tamilnadu namely Annappanaicken Kuppam Anicut (A.N.Kuppam) and Lakshmipuram Anicut across Araniyar. The total actual dependable run –off is 20.04 T.M.Cft/Sq.Mile. There is seasonal flow in the river during monsoon seasons. The Maximum discharge of the river so far measured is 22,224 cusecs.

Araniyar Sub Basin area in Tamil Nadu is 763 Sq km. The Taluks covered in this sub basin are Ponneri , Gummidipoondi and Uthukottai of Tiruvallur district.

Annexure II

Clusterwise/Infrastructurewise/villagewise- Convergence Table

Sl. No.	Infrastructure/Tank/Anicut	Name of the Cluster No.Revenue Villages	Total Ayacut area in Ha.				Ayacut	Total Area in Ha.			WRD		Agriculture		Horti culture		AED		TNAU		Agri. Mark.		AHD		Fisheries	
			FI	PI	Gap Area	Permanent Gap		WOP	WP	(Focus Crop)	Activities	Nos. & Length	Activities	Nos./Ha.	Activities	Nos./ Ha.	Activities	Nos./Ha.	Activities	Nos./Ha.	Activities	Nos./Ha.	Activities	Nos./Ha.	Activities	Nos./ Ha.
	Name of Cluster : CLUSTER NO .1																									
1	Ammambakkam Tank	Ammambakkam	14.325		1.955		16.280	14.325	16.280	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	760m 2 0 0 1 400m 1 1			AE V	15	ROTO Sp V Sp Pu	1 2 1	SRI RFP	2 5					---	--
2	Ammambakkam Chellamma Tank	Ammambakkam	38.190		2.160		40.350	38.190	40.350	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	750m 1 0 0 1 500m 1 -					PTP Sp V	1 2	SRI RFP	10 10	Training to WUA	1/ (0.50 lakhs)			---	--
3	Avicheri Chitheri	Avicheri	51.530		4.705		56.235	51.530	56.235	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	700m 2 0 0 1 400m 1 -			AE V	5	DP Sp Pu	1 1	SRI RFP	15 15	Exposure visit	1 (1.00 lakhs)			---	--
4	Seethanjeri Tank	Ammambakkam	57.470		3.565		49.820	64.115	67.680	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	735m 2 0 0 1 300m 1 -			AE V	15	PT Sp V	1 2	SRI RFP GMD PFS	10 10 5 2					---	--
5	Chellamakandigai Kanigalagunda	Ammambakkam			Joint						Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	690m 1 0 0 1 400m 1 -					ROTO	1							---	--

6	Kunipalayam Peddha Cheruvu	Gunipalayam	42.620		2.965		45.585	42.620	45.585	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1067m 1 0 0 1 1000m 1 -			AE FR	10	Dr Fr	2	SRI RFP GMD GLP PFS	15 15 5 5 2					---	--
7	Gunipalayam East Tank	Gunipalayam	45.960		6.210		52.170	45.960	52.170	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1000m 2 0 0 1 1000m 1 1					PTP	1	SRI RFP GMD GLP PFS	15 15 5 5 2			CO 3	0.4	---	--
8	Pennalurpettai Chinna Cheruvu	Pennalurpettai	59.605		10.060		79.665	69.605	79.665	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1100m 2 0 0 1 1200m 1 -			AE FL	15	PT	1	SRI RFP GMD GLP IPTGN PFS	25 25 5 5 5 2	Commodity group training	1/ (0.50 lakhs)			---	--
9	Pennalurpettai Big Tank	Pennalurpettai	102.875		24.540		127.415	102.875	127.415	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	712m 1 0 0 1 1100m 1 -			AE FR	10	MCT	1	SRI RFP GMD GLP IPTGN	10 10 5 5 5			CO 3	0.4	FSR	1
10	Srinivasapuram Kasthuri Naidukunda	Pennalurpettai									Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	512m 1 0 0 1 700m 1 -					PT	1						---	--
11	Srinivasapuram Putheri	Pennalurpettai									Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	700m 1 0 0 1 700m 1 -					PT	1						---	--

12	Pudhucheri Tank	Pudhucheri	65.715		30.370		96.085	65.715	96.085	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1707m 2 0 0 1 800m 1 -					FP PTP SpPu	1 1 1	SRI RFP GMD GLP IPT GN	50 50 10 5 5	Commodity group training	1 (0.50 lakhs)	CO 3	0.4	FP	1
13	Athilivakkam Tank & Perumal odai	Athilivakkam	24.500		0.900		43.400	42.500	43.400	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	914m 2 0 0 1 1000m 1 -			AE V & AE FL	20 & 10	PT SpV	1 2	SRI RFP GMD GLP IPT GN	25 25 5 5 5					---	--
14	Mamandur Kottavakkam Tank	Velakapuram	18.260		9.750		36.610	30.260	40.010	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	700m 2 0 0 1 1100m 1 -					PTP DP	1 1	SRI RFP GLP IPT GN PFS	15 15 5 5 2					---	--
15	Mambakkam Tank	Mambakkam	188.365		16.520		204.885	188.365	204.885	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1890m 6 0 0 1 1000m 1 -			AE FL	10	FP ROTO	1 1	SRI RFP GMD GLP IPTGN	10 10 5 5 5	Stiorage godown	1/ (4.00 lakhs)	F.Cholam	0.1	FP	1
16	Kalavai Tank	Kalavai	39.125		2.365		61.490	59.125	61.490	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	470m 1 0 0 1 1000m 1 -			AE V	20	PTP SPV	1 2	SRI RFP GLP IPTGN	10 10 5 5					---	--
17	Peritivakkam Large & Small Tank	Perittivakkam	32.160		2.255		44.415	42.160	44.415	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1640m 3 0 0 1 1000m 1 -			AE V	25	ROTO Sp V	1 2	SRI RFP GLP IPTGN	10 10 5 5					---	--

18	Katchur Natteri	Katchur	377.940		13.915		391.855	377.940	391.855	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2590m 3 0 0 1 6000m 1 -	40.01		AE V	20	PW Sp V	1 2	SRI RFP GMD GLP IPT GN	50 50 10 5 5	Collection centre	1/ (3.00 lakhs)	F.Cholam	0.4	---	--
19	Pondavakkam Mukkani Thangal	Katchur	Joint	Joint	Joint		Joint	Joint	joint	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	680m 1 0 0 1 400m 1 -			AE FL	35									---	--
20	Velekapuram Big Tank	Velakapuram	69.300		15.470		124.770	109.300	124.770	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1100m 3 0 0 1 1300m 1 -			AE V	30	PT PW Sp V	1 1 2	SRI RFP GMD GLP IPTGN	15 15 5 5 5	Training to WUA	1/ (0.50 lakhs)			AIT	1
21	Velekapuram Nagaleri	Velakapuram	68.700		13.275		81.975	68.700	81.975	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1646m 1 0 0 2 1200m 1 -			AE FL	20	ROTO	1	SRI RFP GLP IPTGN	10 10 5 5			F.Cholam	0.2	---	--
	Total	**1574.265**	**1296.640**		**160.980**	**0.000**	1553.005	**1413.285**	**1574.265**	**0.000**	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	22063m 40 0 0 22 22500m 21 4			AE, V , FL&FR	230	PT PW Sp V ROTO	44	SRI RFP GMD GLP PFV OF IPT GN	312 312 75 75 30 15 75	StorageGodown,Commodity grouptraining, TrainingtoWUA	6	Co 3 &F. Cholam	1.9	FSR AIT FP	4
	Name of Cluster : CLUSTER NO .2																							
1	**Suruttapalli Anicut**		-	-	-	-	-	-	-	-	Sup.channel Sup.chl lining Demarcation Culvert/ Inlet	14000m 900m 1 2												---	--

2	Latchivakkam Tank	Latchivakkam			11.390		171.940	160.550	171.940	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2012m 3 0 0 2 200m 1 1			AE FR,V,FL	3+13 +5=**21**	FP PT DP Dr Fr Sp V	1 1 1 2 2							FP	1
3	Perandur Tank	Perandur			34.085		268.390	234.305	268.390	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2426m 5 0 0 2 900m 1 1			AE FR,V,FL	2+13 +3=**18**	FP ROTO PT Sp V	1 1 1 2			Exposure visit	1/ (1.00 lakhs)	CO 3	0.1	FP	1
4	Senjiagaram Tank	Senjiagaram	58.320		28.450		136.770	108.320	136.770	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	945m 1 0 0 1 1700m 1 1			AE FR,V,FL	8+15 +2=**25**	PTP PW Sp V	1 1 2	SRI RFP GMD GLP PFV OF IPT GN	30 30 5 5 2 1 5	Commodity group training	1/(0.50 lakhs)			---	--
5	Senjiagaram Odai Thangal	Senjiagaram	Joint	Joint	Joint		Joint	Joint	Joint	Joint	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1067m 2 0 0 2 1700m 2 2					SpV	2							---	--
6	Senjiagaram Singilikuppam Tank																							---	--
7	Uthukottai Hissa Tank	Uthukottai, Tharatchi, Perandur			27.845		342.290	314.445	342.290	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1910m 6 0 0 1 3400m 1 1			AE FR,V,FL	5+28 +10= **43**	ROTO PT Dr Fr	1 1 2					CO 3	0.4	AIT	1
8	Kakkavakkam Hissa Tank	Kakkavakkam, Vannankuppam, Thottaredykuppam, Tholavedu, paruthimenikuppam, Thandalam.	56.155		100.800		540.955	440.155	540.955	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2652m 4 0 0 2 800m 1 1			AE FR,V,FL	10+2 5+5= **40**			SRI RFP GMD GLP PFV OF IPT GN	50 50 10 5 2 1 5			F.Chola m	0.4	FP AIT	1 1
9	Soolaimeni Thudapatheri	Soolaimeni	22.605		17.685		40.290	22.605	40.290	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1265m 1 0 0 1 600m 1 1			AE FR,V	5+15 =**20**	FP PTP PT DP Dr Fr Sp Ja Sp V	1 1 1 1 2 2 2	SRI RFP GMD GLP OF PFV IPT GN	30 30 10 5 1 2 5					---	--

10	Sengarai Hissa Tank	Sengarai	181.340		56.520		281.860	225.340	281.860	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2499m 3 0 0 1 600m 1 1			AE FR,V	4+20 =**24**	ROTO PTP Dr Fr	1 1 2	SRI RFP GMD GLP OF PFV IPT GN	30 30 10 5 1 2 5	Cluster level training	1/ (1.00 lakhs)			AIT	1
11	Sengarai Ammaneri Tank	Sengarai	Joint	Joint	Joint		Joint	Joint	Joint	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	314m 1 0 0 1 500m 1 1					MCT Dr Fr	1 2							---	--
12	Sengarai Ayyaneri Tank	Sengarai	Joint	Joint	Joint		Joint	Joint	Joint	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	762m 1 0 0 1 2800m 1 1													---	--
13	Palavakkam Hissa Tank	Palavakkam	32.160		10.895		103.055	92.160	103.055	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1707m 2 0 0 2 1200m 1 1							SRI RFP GMD GLP IPT GN	50 50 10 5 5					FSR	1
14	Sirunai Errakulam Tank	Palavakkam	Joint	Joint	Joint		Joint	Joint	Joint		Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	360m 1 0 0 1 700m 1 1			AE FR,V,FL	4+20 +3=**27**	ROTO PT Dr Fr	1 1 2							---	--
15	Palavakkam Kuppam Thangal	Palavakkam	Joint	Joint	Joint		Joint	Joint	Joint		Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	550m 2 0 0 1 700m 1 1									Collection centre	1/ (3.00 lakhs)			---	--

	Total	**1885.550**	**350.580**		**287.670**	**0.000**	1885.550	**1597.880**	**1885.550**	**0.000**	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel sup.chl lining Demarcation Culvert/ Inlet	18469m 32 0 0 18 29800m 900m 15 16			AE, V , FL&FR	218	FP PTP PT DP Dr Fr Sp Ja Sp V	43	SRI RFP GMD GLP PFV OF IPT GN	200 200 25 25 10 5 25	Expo.Visit,Commodity grouph training , Clus. Levl.Training & colln. Centr.	4	Co 3 &F. Cholam	0.5	FSR AIT FP	7
	Name of Cluster : CLUSTER NO .3																							
1	82. Panapakkam Tank	82. Panapakkam	79.250		20.000	77.275	176.525	79.250	99.250	77.275	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2735m 2 0 0 2 300m 1 1			AE FR,V	2+15 =**17**	PT DR Fr Sp Pu	1 2 1	SRI RFP GLP IPTGN	10 10 5 5	District level training	1/ (1.00 lakhs)			FSR	1
2	Alapakkam Tank	Alapakkam	36.705		1.840		74.545	72.705	74.545	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	760m 2 0 0 1 1200m 1 1			AE V	**5**	PT Sp V	1 2	SRI RFP GLP IPTGN	10 10 5 5						
3	Enambakkam Tank	Enambakkam	19.215		3.265		72.480	69.215	72.480	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1567m 3 0 0 1 2000m 1 1			AE V,FL	21+10=**31**	ROTO PW Sp Ja	1 1 2	SRI RFP GMD GLP IPT GN	50 50 10 5 5					---	--
4	Kalpattu Tank	Kalpattu			7.700		92.570	84.870	92.570	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1360m 4 0 0 4 1700m 1 1			AE V,FL	12+5 =**17**	DP Sp Pu	1 1						---	--
5	Malandur Tank	Malandur			12.880		108.085	95.205	108.085	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	900m 2 0 0 1 1200m 1 1			AE V	**10**	PT Sp V	1 2						---	--

6	Panapakkam Chitheri	82. Panapakkam	45.360		22.600		77.960	55.360	77.960	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2422m 3 0 0 1 2400m 1 1					ROTO	1	SRI RFP GMD GLP IPTGN	15 15 5 5 5					---	--
7	Vadamadurai Tank	Vadamadurai	383.010		127.990		601.000	473.010	601.000	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	3095m 4 0 0 3 5200m 1 1			AE V	**3**	FP MCT SPV	1 1 2	SRI RFP GLP IPTGN	10 10 5 5	district level training	1/ (1.00 lakhs)	CO 3	0.4	FP AIT	1 1
8	Manjankaranai Tank	Manjankaranai	55.200		10.85	2.00	89.030	76.180	87.030	2	-	-					PTP Sp gr	1 1						---	--
9	Ariyapakkam Tank	Athupakkam			9.050		53.700	44.650	53.700	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1173m 2 0 0 1 700m 1 1			AE V,FL,	16+10=**26**	ROTO	1						---	--
10	Athupakkam Tank	Athupakkam			20.100		119.250	99.150	119.250	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1707m 2 0 0 1 1400m 1 1			AE V,FL	6+18=**24**	PW SpJa	1 2	SRI RFP GMD GLP PFV OF IPT GN	50 50 10 5 2 1 5					FSR	1
11	Kannigaipair Tank	Kannigaipair	438.200		40.000	81.53	559.730	438.200	478.200	81.53	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	4562m 5 0 0 3 2900m 1 1			AE V,FL	6+15=**21**	PTP MCT	1 1	SRI RFP GMD GLP PFV OF IPT GN	50 50 10 5 2 1 5	Storage godown	1/ (4.00 lakhs)			AIT	1
12	Manjankaranai Small Tank	Manjankaranai	16.770		20.000	19.65	116.420	76.770	96.770	19.65	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	770m 1 0 0 1 1500m 1 1					PT	1	SRI RFP GMD GLP OF PFV IPT GN	30 30 10 5 1 2 5			F.Chola m	0.1	---	--

13	43. Panapakkam Tank	43. Panapakkam	139.555		10.695		150.250	139.555	150.250	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2256m 4 0 0 1 3000m 1 1			AE V	**10**	FP PTP	1 1	SRI RFP GMD GLP OF PFV IPT GN	30 30 10 5 1 2 5					FP AIT	1 1
14	Sennankaranai Tank	Sennankaranai	37.285		8.540		125.825	117.285	125.825	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1244m 2 0 0 1 3200m 1 1			AE V,FL	11+6 =**17**	ROTO Sp gr	1 1	SRI RFP GMD GLP OF PFV IPT GN	30 30 10 5 1 2 5					---	--
	Total	**2417.370**	**1250.550**		**315.510**	**180.455**	2417.370	**1921.405**	**2236.915**	**180.455**	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	24551m 36 0 0 21 26700m 14 14			AE, V , FL&FR	181	FP PTP PT DP Dr Fr Sp Ja Sp V	34	SRI RFP GMD GLP PFV OF IPT GN	270 270 45 45 18 9 45	Storage Godown & Dist. Level training	3	Co 3 &F. Cholam	0.5	FSR AIT FP	7
	Name of Cluster : CLUSTER NO .4																								
1	Arani Tank	Arani	148.050		35.530		245.630	210.100	245.630	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	3565m 2 2 0 2 3000m 1 1			AE FR,V	5+130=**135**			SRI RFP GMD GLP PFS	15 15 5 5 2	Officer's level training	1/ (1.00 lakhs)	CO 3	0.5	---	--
2	Chinnambedu Large Tank	Chinnambedu	446.780		64.530		670.620	606.090	670.620	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	5820m 3 4 0 2 4600m 1 5			AE FR, V	10+40=**50**	PT Dr Fr	1 4	SRI RFP GMD GLP PFS	15 15 5 5 2	Storage godown	1/ (4.00 lakhs)	F.Cholam	0.5	---	--
3	Chinnambedu Small Tank	Chinnambedu	28.070		6.920		46.140	39.220	46.140	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1385m 0 2 0 1 500m 1 -			AE FR, V	5+32 =**37**	PTP Dr Fr	1 4	SRI RFP GMD GLP IPTGN PFS	25 25 5 5 5 2	Agri business centre	1/(25.00 lakhs)			---	--

4	Durainallur Tank	Durainallur	44.980		18.850		79.630	60.780	79.630	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1995m 0 2 0 1 2000m 1 -			AE FR, V	10+39=**49**	DP	1	SRI RFP GMD GLP IPTGN	15 15 5 5 5	Collection centre	1/(3.00 lakhs)			---	--
5	Peravallur Tank	Peravallur	48.080		8.860	3.00	73.375	68.270	77.130	3	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	-					ROTO Dr Fr	1 2	SRI RFP GLP IPTGN	10 10 5 5					AIT	1
6	Kilmeni Tank	Kilmeni	46.250		13.845		79.005	65.160	79.005	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1630m 0 2 0 2 1700m 1 1			AE FR, V	5+29=**34**	ROTO	1	SRI RFP GLP IPT GN PFS	15 15 5 5 2					---	--
7	Perunjeri Tank	Perunjeri	25.630		37.275		73.375	36.100	73.375	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	590m 2 0 0 1 500m 1 -			AE V	**28**			SRI RFP GMD GLP IPTGN	10 10 5 5 5					---	--
8	Pondavakkam Pudhu Eri	Pondavakkam	30.960		7.590		50.590	43.000	50.590	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1435m 2 0 0 1 500m 1 -			AE FR, V	5+143=**148**	FP PTP Sp V	1 1 2	SRI RFP GLP IPTGN	10 10 5 5	Village meeting	1/(0.50 lakhs)			FP	1
9	Vadakkunallur Tank	Vadakkunallur	52.990		1.685		81.655	79.970	81.655	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1845m 1 0 0 1 500m 1 -			AE FR, V	5+30=**35**	PTP SP Pu	1 1	SRI RFP GMD GLP IPT GN	25 25 5 5 5					---	--
10	Vairavankuppam Tank	Vairavankuppam	22.420		1.245		18.240	39.995	41.240	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1675m 1 1 1 0 500m 1 -			AE V	**15**	PW	1	SRI RFP GLP IPT GN PFS	15 15 5 5 2	Village meeting	1/(0.50 lakhs)			---	--

11	Akkarapakkam Tank	Akkarapakkam	106.605		26.160		174.275	148.115	174.275	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2580m 3 1 1 1 1500m 1 -			AE FR,V	20+10=**30**	Sp PU	2	SRI RFP GMD GLP IPTGN	10 10 5 5 5					---	--
12	Rallapadi Tank	Rallapadi	42.760		7.405		66.785	59.380	66.785	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1075m 0 1 0 1 600m 1 -			AE V,FL,FR	25+2+2=**29**	ROTO	1	SRI RFP GLP IPTGN	10 10 5 5	Village meeting	1/(0.50 lakhs)			---	--
13	Thirunilai Tank	Thirunilai	57.855		11.270		93.635	82.365	93.635	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2560m 1 1 0 1 400m 1 -			AE FR,V,FL	12+10+1= **23**	PTP	1	SRI RFP GMD GLP IPTGN	10 10 5 5 5	Village meeting	1/(0.50 lakhs)			---	--
14	Pudhuvoyal Tank	Pudhuvoyal	87.880		5.200	28.08	145.345	112.065	117.265	28.08	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1705m 1 0 0 1 1800m 1 -			AE FR	**25**	PT Dr Fr	1 2	SRI RFP GMD GLP PFS	15 15 5 5 2					---	--
	Total	**1928.055**	**1189.310**		**246.365**	**31.080**	1898.300	**1650.610**	**1896.975**	**31.080**	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	27860m 16 16 2 15 18100m 13 7			AE, V , FL&FR	638	FP PTP PT DP Dr Fr Sp Ja Sp V	29	SRI RFP GMD GLP PFV OF IPT GN	280 280 70 70 28 14 70	Off.level Trai.,Storage Godown,Agri. Buisn. Cent., collection cetr.& Vill. Meet.	8	Co 3 &F. Cholam	1	AIT FP	2
	Name of Cluster : CLUSTER NO 5																							
1	Bandikavanur Big Tank	Bandikavanur	29.435		21.160		55.105	33.945	55.105	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1405m 0 2 1 1 300m 1 -			AE V	**20**	ROTO Dr Fr	1 2	SRI RFP GMD GLP PFS	15 15 5 5 2					---	--

2	Bandikavanur Chitheri	Bandikavanur	37.380		5.090		58.490	53.400	58.490	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	585m 0 1 0 1 500m 1 -			AE , V	**10**	PT Dr Fr	1 2	SRI RFP GMD GLP PFS	15 15 5 5 2					---	--
3	Maduravasal Tank	Maduravasal	110.225		39.100		196.525	157.425	196.525	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	3210m 3 1 0 1 1700m 1 -			AE FR,V	8+10 =**18**	PTP Sp Pu	1 1	SRI RFP GMD GLP IPTGN PFS	25 25 5 5 5 2					---	--
4	Panayancheri Tank	Panayancheri	122.920		28.705		184.305	155.600	184.305	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	3710m 1 2 0 1 4300m 1 1			AE FR,V,FL	4+15 +3=**22**	MCT	1	SRI RFP GMD GLP PFS	15 15 5 5 2	Village meeting	1/(0.50 lakhs)			---	--
5	Velapakkam Tank	Velapakkam	54.875		32.605		108.820	76.215	108.820	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1680m 0 1 1 0 1100m 1 1			AE FR,V	2+10 =**12**	ROTO	1	SRI RFP GMD GLP IPTGN PFS	25 25 5 5 5 2	Village meeting	1/(0.50 lakhs)	F.C holam	0.5	---	--
6	Karani Tank	Karani	47.680		3.280		74.070	70.790	74.070	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1905m 2 1 0 1 2000m 1 -			AE FR	**10**	PT	1						---	--
7	Mangalam Tank	Mangalam	20.280		1.160		42.550	41.390	42.550	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1950m 0 2 0 1 500m 1 -			AE V,FR	26+10 =**36**	DP Sp gr	1 1	SRI RFP GMD GLP PFS	15 15 5 5 2					---	--

8	Nelvoy Tank	Nelvoy	86.285		21.580		144.675	123.095	144.675	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1980m 0 2 0 1 1615m 1 -			AE FL,FR	40+20=**60**	PTP Dr Fr	1 2	SRI RFP GMD GLP PFS	15 15 5 5 2	Village meeting	1/(0.50 lakhs)			---	--
9	Paleswaram Tank	Paleswaram	47.315		0.650		67.295	66.645	67.295	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1100m 2 0 0 1 500m 1 -			AE V,FR	26+5=**31**	ROTO	1	SRI RFP GMD GLP IPTGN PFS	25 25 5 5 5 2					---	--
10	Serpedu Tank	Serpedu	72.580		12.810		85.390	72.580	85.390	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	900m 0 1 0 1 500m 1 -			AE V,FR	19+40=**59**	PW Dr Fr Sp V	1 2 2	SRI RFP GMD GLP IPT GN	25 25 5 5 5					---	--
11	Kadanallur Tank	Kadanallur	34.745		5.070		52.895	47.825	52.895	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1200m 1 0 0 1 500m 1 -			AE FR,V,FL	3+4+1=**8**	PT Sp Pu	1 1	SRI RFP GLP IPT GN PFS	15 15 5 5 2					---	--
12	Amirthanallur Tank	Amirthanallur	87.330		16.560		146.040	129.480	146.040	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2285m 3 2 0 1 500m 1 -			AE FR,V,FL	6+4+1=**11**	Dr Ro Sp Ja	5 2	SRI RFP GMD GLP IPTGN	10 10 5 5 5					---	--
13	Mukkarambakkam Tank	Mukkarambakkam	112.420		12.790		171.040	158.250	171.040	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	803m 2 0 0 2 1500m 1 1			AE V,FL,FR	21+38+20=**79**	PTP Dr FR	1 2	SRI RFP GLP IPTGN	10 10 5 5	Village meeting	1/(0.50 lakhs)	CO 3	1	---	--

	Total	**1387.200**	**863.470**		**200.560**	**0.000**	1387.200	**1186.640**	**1387.200**	**0.000**	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	22713m 14 15 2 13 15515m 13 3			AE, V , FL&FR	306	FP PTP PT DP Dr Fr Sp Ja Sp V	34	SRI RFP GMD GLP PFV OF IPT GN	160 160 55 55 22 11 55	Village meeting	4	Co 3 &F. Cholam	1.5	-	-
	Name of Cluster : CLUSTER NO .6																							
1	A.N. Kuppam Tank	A.N. Kuppam	116.060		17.375		133.435	116.060	133.435	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2440m 1 0 0 2 2500m 1 3			AE V,FR	42+12=**54**	FP PTP	1 1	SRI RFP GMD GLP IPT GN	25 25 5 5 5					FP	1
2	Erukkuvoy Tank	Erukkuvoy, Manali	510.800		253.865		764.665	510.800	764.665	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1770m 1 0 0 1 1500m 1 -			AE V,FL,FR	41+6+65=**112**	PTP Dr Fr Dr Ro	1 2 5	SRI RFP GMD GLP IPT GN	25 25 5 5 5					---	--
3	Gummidipoondi Hissa Large	GPD, Verkadu	165.470		35.750		501.220	465.470	501.220	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	3750m 2 0 0 2 6000m 1 -			AE FR	**25**	MCT Sp gr	1 1	SRI RFP GLP IPT GN PFS	15 15 5 5 2			CO 3	0.5	AIT	1
4	Gummidipoondi Perumanjaneri	Palaya GPD	62.370		2.040	6.040	80.450	72.370	74.410	6.04	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	700m 1 0 0 1 800m 1 -					PW	1	SRI RFP GMD GLP IPTGN	10 10 5 5 5					---	--
5	Kannalur Pudhu Eri	Kannalur	24.430		23.385		67.815	44.430	67.815	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1920m 1 0 0 1 1000m 1 -					Sp Pu	1	SRI RFP GLP IPTGN	10 10 5 5					---	--

6	Kanagambakkam Tank	Kanagambakkam					40.500	40.500	40.500	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1100m 2 0 0 1 - 1 -			AE V	**3**	DP	1							---	--
7	Kollur Tank	Kollur					42.110	42.110	42.110	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1300m 1 0 0 1 - - -			AEV	**3**									---	--
8	Kilikodi Tank	Kilikodi	53.980		85.000		204.980	119.980	204.980	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2480m 1 0 0 1 - - 1					ROTO	1	SRI RFP GMD GLP IPT GN	25 25 5 5 5					---	--
9	Kilmudalambedu Tank	Kilmudalambedu	140.060		30.000	30.005	210.065	150.060	180.060	30.005	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	3800m 2 0 0 1 500m 1 2			AE FR	**14**	PTP Dr Su	1 2	SRI RFP GLP IPT GN PFS	15 15 5 5 2					AIT	1
10	Panpakkam Large Tank	Panpakkam	29.410		34.900		139.810	104.910	139.810	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2740m 1 0 0 1 - 2 -			AE FR	**15**	Dr Su	2	SRI RFP GLP IPT GN PFS	15 15 5 5 2					---	--
11	Panpakkam Small Tank		5.000				45.000	45.000	45.000	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1000m 1 0 0 1 1000m 1 -					Dr Fr	2	SRI RFP GMD GLP IPTGN	10 10 5 5 5					---	--
12	Peruvoyal Tank	Peruvoyal			13.000		123.000	110.000	123.000	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2330m 1 0 0 1 - 1 1			AE FR	**18**	ROTO	1							---	--

13	Peruvoyal Putheri	Peruvoyal			3.000		66.070	63.070	66.070	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1580m 1 0 0 1 - 1 -			AE FR	**10**	PT Sp Pu	1 1							---	--
14	Melmudalambedu Tank	Melmudalambedu	124.200		32.550		203.000	170.450	203.000	0	-	-					ROTO	1	SRI RFP GMD GLP IPT GN	25 25 5 5 5						---	--
15	Palavakkam Tank	Palavakkam	109.450		29.650		185.750	156.100	185.750	0	-	-					PT SpPu	1 1	SRI RFP GLP IPT GN PFS	15 15 5 5 2					AIT	1
	A.N. KUPPAM ANICUT		-	-	-	-	-	-	-	-	Anicut repair Sup.Channel Demarcation	1 16000m 1													---	--
	Total	**2807.870**	**1341.230**		**560.515**	**36.045**	2807.870	**2211.310**	**2771.825**	**36.045**	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet Anicut repair	26910m 16 0 0 15 28300m 14 7 1			AE, V , FL&FR	254	FP PTP PT DP Dr Fr Sp Ja Sp V	29	SRI RFP GMD GLP PFV OF IPT GN	200 200 50 50 20 10 50	-	-	Co 3	0.5	AIT FP	4
	Name of Cluster : CLUSTER NO .7																								
1	Athupakkam Large Tank	Athupakkam	134.920		10.985		175.955	164.970	175.955	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	670m 2 0 0 1 - 1 -			AE V,FR	20+20=**40**	MCT Sp V	1 2							---	--
2	Athupakkam kanna Putheri						Joint				Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	930m 1 0 0 2 1500m 1 -													---	--

3	Ayyanallur Large Tank	Ayyanallur	124.525		18.380		258.905	240.525	258.905	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	3480m 2 0 0 3 1000m - -			AE FR,V,FL	14+7+4=**25**	PW Dr Su	1 2	SRI RFP GMD GLP IPT GN	25 25 5 5 5					---	--
4	Ayyanallur Small Tank	Ayyanallur	78.340		11.065		157.405	146.340	157.405	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1460m 1 0 0 1 1000m 1 -			AE FR,V,FL	9+7+5=**21**	ROTO Dr Fr	1 2	SRI RFP GLP IPT GN PFS	15 15 5 5 2			CO 3	0.5	---	--
5	Chinnacholiambakkam Ochan Thangal	Peria Choliambakkam	47.720		3.865		83.585	79.720	83.585	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	900m 1 0 0 1 3000m 1 -			AE FL	**9**	PTP	1	SRI RFP GMD GLP IPTGN	10 10 5 5 5					---	--
6	Kuruviagaram Tank	Kuruviagaram	44.150		138.510		272.660	134.150	272.660	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2190m 2 0 0 1 2000m 1 1			AE V	**20**	DP Sp V	1 2	SRI RFP GLP IPTGN	10 10 5 5					---	--
7	Melakalani Hissa Tank	Melakalani	143.770		34.745		198.515	163.770	198.515	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1830m 2 0 0 1 2500m 1 -					PTP SpPu	1 1	SRI RFP GLP IPT GN PFS	15 15 5 5 2					---	--
8	Rettambedu Tank	Rettambedu	75.580		23.575		215.155	191.580	215.155	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	3340m 1 0 0 1 - 1 1			AE FR	**20**	ROTO PTP Sp V	1 1 2	SRI RFP GMD GLP IPT GN	25 25 5 5 5					FSR	1
9	Palaya Gummidipoondi Thamarai	Palaya GPD	-		-		Joint	Ayacut Area converted to Residential Area.			Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1140m 1 0 0 1 1000m 1 -													---	--

10	Sennavaram Tank	Sennavaram	30.090		5.595		51.685	46.090	51.685	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	800m 1 0 0 - - 1 -			AE V	**20**	ROTO Sp V	1 2	SRI RFP GMD GLP IPT GN	25 25 5 5 5					---	--
11	Thervali Kuttankulam Thangal & Thamarai	Thervazhi	23.080		7.095		46.365	39.270	46.365	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1475m 2 0 0 2 - 1 -			AE FR,FL & AE FL	**48+1 2=60 & 14**	PT Dr Fr Sp Ja	1 2 1	SRI RFP GLP IPT GN PFS	15 15 5 5 2					---	--
12	Vazhudalambedu Large & Small	Vazhudalambedu	44.600		14.585		83.185	68.600	83.185	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	820m 1 0 0 1 - 1 -			AE FL,V	7+16 =**23**	PT	1	SRI RFP GMD GLP IPTGN	10 10 5 5 5					---	--
13	Paranambedu Tank	Paranambedu			49.340		98.230	48.890	98.230	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1790m 1 0 0 1 - - 1			AE V	**5**	Sp V	2							---	--
14	Sombattu Tank	Sombattu	110.060		189.305		463.365	274.060	463.365	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	3200m 2 0 0 2 - 1 -			AE V,FL,FR	5+2+ 1**=8**	PT	1	SRI RFP GMD GLP IPT GN	25 25 5 5 5					AIT	1
15	Enathimelpakkam Tank	Enathimelpakkam	70.110		23.540		153.650	130.110	153.650	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1490m 2 0 0 2 - 1 -					PTP Sp Gr	1 1	SRI RFP GLP IPT GN PFS	15 15 5 5 2					---	--

	Total	**2258.660**	**926.945**		**530.585**	**0.000**	2258.660	**1728.075**	**2258.660**	**0.000**	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	25515m 22 0 0 20 12000m 13 3			AE, V , FL&FR	265	FP PTP PT DP Dr Fr Sp Ja Sp V	32	SRI RFP GMD GLP PFV OF IPT GN	220 220 60 60 28 12 55	-	-	Co 3	0.5	FSR AIT	2
	Name of Cluster : CLUSTER NO .8																							
1	Aladu Peria Thangal	Aladu	12.465		12.460		62.320	49.860	62.320	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1030m 2 0 0 1 500m 1 -			AE V	**3**	PT Dr Su	1 2	SRI RFP GMD GLP IPT GN	25 25 5 5 5					---	--
2	Erisivan Tank	Erisivan	5.595		3.625		39.620	37.575	41.200	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	775m 4 0 0 1 2000m - -			AEV	5	DP Dr Su	1 2	SRI RFP GLP IPT GN PFS	15 15 5 5 2					---	--
3	Kummangalam Tank	Ponneri			9.930	29.810	96.085	56.345	66.275	29.81	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2830m 2 0 0 1 3000m 1 -					PT	1							---	--
4	Lakshmipuram Tank	Lakshmipuram	2.785		12.350		28.135	27.785	40.135	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	720m 4 0 0 1 1500m - -			AE V	**10**			SRI RFP GMD GLP IPT GN	25 25 5 5 5					---	--
5	Manopuram Tank	Aladu			10.035		50.180	40.145	50.180	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	910m 3 0 0 1 1500m 1 -			AE FR,V,FL	2+8+ 2=**12**	ROTO DR Fr	1 2							---	--

6	Kumarasirulapakkam Tank	Aladu			36.560		129.400	92.840	129.400	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2335m 3 0 0 3 - 1 -			AE FR,V	1+3= **4**	PT Dr Su	1 2							---	--
7	Perumbedu Tank	Perumbedu	200.000		37.240		318.440	281.200	318.440	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	4300m 4 0 0 2 5000m 1 -			AE V,FL	8+2= **10**	PTP Dr Fr	1 2	SRI RFP GLP IPT GN PFS	15 15 5 5 2					AIT	1
8	Asanapudhur Tank	Asanapudhur	24.530		1.660		99.790	98.130	99.790	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	3885m 4 0 0 2 2000m 1 -					ROTO Sp Pu	1 1	SRI RFP GMD GLP IPTGN	10 10 5 5 5					---	--
9	Eliambedu Tank	Eliambedu			3.400		97.055	93.655	97.055	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	3020m 2 0 0 1 2000m - -			AE V	**3**	FP ROTO Dr Su	1 1 2							FP	1
10	Guduvanjeri Hissa Tank	Guduvanjeri	60.000		37.315		136.630	99.315	136.630	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2940m 6 0 0 2 1000m - -			AE V	**3**			SRI RFP GLP IPT GN PFS	15 15 5 5 2					---	--
11	Kattavur Hissa Tank	Kattavur	179.635		45.215		314.850	269.635	314.850	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	3860m 6 0 0 1 1250m 1 -			AE V	**6**	MCT Dr Fr	1 2	SRI RFP GMD GLP IPTGN	10 10 5 5 5					---	--

12	Thadaperumbakkam Tank	Thadaperumbakkam	135.880		16.670	7.5	208.410	184.240	200.910	7.5	-	-					PTP	1	SRI RFP GLP IPT GN PFS	15 15 5 5 2					---	--
13	Aladu Tank	Aladu	63.585		13.795	4.5	113.310	95.015	108.810	4.5	-	-					PTP Spgr	1 1	SRI RFP GMD GLP IPTGN	10 10 5 5 5					---	--
14	**LAKSHMIPURAM ANICUT**		-	-	-	-	-	-	-	-	Anicut repair Sup.Channel Culvert/ Inlet	1 4600m 1												---	--
	Total	**1707.805**	**684.475**		**240.255**	**41.810**	1694.225	**1425.740**	**1665.995**	**41.810**	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet Anicut repair	26605m 40 0 0 16 24350m 7 - 1			AE, V , FL&FR	56	FP PTP PT DP Dr Fr Sp Ja Sp V	28	SRI RFP GMD GLP PFV OF IPT GN	105 105 45 45 18 9 45	-	-	-	-	AIT FP	2
	Name of Cluster : CLUSTER NO .9																								
1	Onbakkam Tank	Thirupalaivanam	60.100		9.030		79.130	70.100	79.130	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1570m 4 0 0 2 - 1 -					FP PTP	1 1	SRI RFP GLP IPT GN PFS	15 15 5 5 2					FP	1
2	Sitrarasur Tank	Arasur	22.400		6.400		43.800	37.400	43.800	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1530m 1 0 0 1 - 1 -			AE V,FL	3 + 2 **=5**	PT Dr Fr	1 2	SRI RFP GMD GLP IPT GN	25 25 5 5 5					---	--
3	Thirupalaivanam Tank	Thirupalaivanam	121.530		11.095		152.625	141.530	152.625	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2615m 4 0 0 3 1500m 1 -					FP PTP	1 1	SRI RFP GLP IPT GN PFS	15 15 5 5 2					FP	1

4	Vembedu Tank	Vembedu	39.485		4.125		73.610	69.485	73.610	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2735m 4 0 0 1 2000m 1 -					PT Sp Pu	1 1	SRI RFP GMD GLP IPTGN	10 10 5 5 5					---	--
5	Vidathandalam Tank	Medur	5.610		9.900		65.970	56.070	65.970	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2100m 4 0 0 1 500m 1 -			AE FR,V	2 + 3 **=5**	DP	1	SRI RFP GLP IPTGN	10 10 5 5			CO 3	0.4	---	--
6	Applavaram Tank	Arasur	14.430		18.695		53.125	34.430	53.125	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1555m 2 0 0 2 1500m 1 -			AE V	**6**	ROTO SpV	1 2	SRI RFP GMD GLP IPT GN	25 25 5 5 5					---	--
7	Andavoyal Tank	Arasur	28.000		1.475		49.475	48.000	49.475	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2635m 3 0 0 2 1200m 1 -					PT	1	SRI RFP GMD GLP PFS	15 15 5 5 2					---	--
8	Arasur Tank	Arasur	65.795		5.520		91.315	85.795	91.315	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	4590m 3 0 0 1 1700m - -			AE V	**3**	ROTO SpV	1 2	SRI RFP GMD GLP PFS	15 15 5 5 2					---	--
9	Medur large Tank	Medur	345.370		121.080		811.820	690.740	811.820	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	7645m 10 0 0 3 10000m 2 -					FP PTP	1 1	SRI RFP GMD GLP IPTGN PFS	25 25 5 5 5 2	Storage godown	1/ (4.00 lakhs)			FP	1
10	Medur Krishnan Thangal						Joint	0.000	0.000	0							ROTO MCT Sp Pu	1 1 1							---	--

	Total	**1420.870**	**702.720**		**187.320**	**0.000**	1420.870	**1233.550**	**1420.870**	**0.000**	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	26975m 35 0 0 16 18400m 9 -			AE, V , FL&FR	19	FP PTP PT DP Dr Fr Sp Ja Sp V	22	SRI RFP GMD GLP PFV OF IPT GN	180 180 45 45 18 9 45	Storage Godown	1	Co 3	0.4	FP	3
	Name of Cluster : CLUSTER NO .10																							
1	Annamalaicheri Large Tank	Annamalaicheri	92.745		28.630		121.375	92.745	121.375	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	4730m 5 0 0 2 1500 2 -					PTP	1	SRI RFP GMD GLP PFS	15 15 5 5 2					---	--
2	Annamalaicheri Small Tank						Joint	0.000	0.000	0									SRI RFP GMD GLP PFS	15 15 5 5 2					---	--
3	Avurivakkam Tank	Avurivakkam	37.115		3.910		39.025	37.115	41.025	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2865m 3 0 0 1 1000 1 -					PW Sp gr	1 1	SRI RFP GMD GLP IPT GN	25 25 5 5 5					---	--
4	Kanchivoyal Tank	Thirupalaivanam	38.095		2.530		44.855	42.325	44.855	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1170m 3 0 0 1 2000m 1 -					ROTO	1	SRI RFP GLP IPT GN PFS	15 15 5 5 2					---	--
5	Kolur Small Tank	Kolur	114.730		12.750		127.480	114.730	127.480	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2805m 4 0 0 1 500m 1 -			AE V	**15**	PTP Dr Fr	1 2	SRI RFP GMD GLP IPTGN	10 10 5 5 5					---	--

6	Kolur Large Tank	Kolur	177.520		41.090		268.610	227.520	268.610	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	3320m 6 0 0 1 1000m 1 -					FP PT MCT Sp V	1 1 1 2	SRI RFP GLP IPTGN	10 10 5 5					FP AIT	1 1
7	Poovamai Large Tank	Poovamai	80.285		3.255		135.540	132.285	135.540	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	3810m 3 0 0 2 3500m 2 -					ROTO	1	SRI RFP GLP IPT GN PFS	15 15 5 5 2					---	--
8	Poovamai Small Tank						Joint	0.000	0.000	0							PT	1							---	--
9	Pakkam Large Tank	Pakkam	64.500		15.485		84.985	69.500	84.985	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2560m 3 0 0 1 1000 1 -					PT SP Pu	1 1	SRI RFP GMD GLP IPT GN	25 25 5 5 5					---	--
10	Sirulapakkam Large Tank	Sirulapakkam	77.310		52.100		129.410	77.310	129.410	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	3450m 6 0 0 2 2500 2 -			AE V	**7**	ROTO	1	SRI RFP GLP IPT GN PFS	15 15 5 5 2					---	--
11	Sirulapakkam Small Tank						Joint	0.000	0.000	0							Sp Ja	1							---	--
12	Avoor Large Tank	Avoor	130.790		42.500		283.290	240.790	283.290	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	5445m 8 0 0 2 30000m 2 -			AE FR,V,FL	1+ 8+ 2 = **11**	FP PTP	1 1	SRI RFP GLP IPT GN PFS	15 15 5 5 2			F.C hola m	0.4	FP AIT	1 1
13	Avoor Chitheri		19.150		4.610		30.760	26.150	30.760	0							Sp V	2							---	--
	Total	**1267.330**	**832.240**		**206.860**	**0.000**	1265.330	**1060.470**	**1267.330**	**0.000**	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	30155m 41 0 0 13 16000 13 -			AE, V , FL&FR	33	FP PTP PT DP Dr Fr Sp Ja Sp V	22	SRI RFP GMD GLP PFV OF IPT GN	195 195 65 65 26 13 65	-	-	F.C hola m	0.4	AIT FP	4

	Name of Cluster : CLUSTER NO 11																							
1	Ilupakkam Tank	Ilupakkam	42.195		4.185		96.380	92.195	96.380	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2350m 3 0 0 2 1300m 1 -			AE V,FL	7 + 2 =**9**			SRI RFP GMD GLP IPT GN	25 25 5 5 5					FP	1
2	Kanganimedu Tank	Kanganimedu	27.275				37.275	40.275	40.275	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1250m 2 0 0 2 500 1 -			AE V	**3**	FP ROTO Sp gr	1 1 1	SRI RFP GLP IPT GN PFS	15 15 5 5 2					---	--
3	Kudinelvoyal Tank	Agaram	27.980		9.345		62.325	52.980	62.325	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2775m 5 0 0 1 3000m 1 -			AE FR,V,FL	1+ 6+ 2=**9**			SRI RFP GMD GLP IPT GN	25 25 5 5 5					---	--
4	Kumaranjeri Tank	Kumaranjeri	25.185		0.930		66.115	65.185	66.115	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2670m 2 0 0 2 1500m 1 -			AE V	**5**	PT Dr Fr	1 2	SRI RFP GLP IPT GN PFS	15 15 5 5 2					FP	1
5	Panapakkam Tank	Panapakkam	44.955		4.435		99.390	94.955	99.390	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	3105m 3 0 0 1 1500m 1 -					FP	1	SRI RFP GMD GLP IPTGN	10 10 5 5 5					---	--
6	Periyaveppathur Large	Sirulapakkam	123.220		5.280		138.500	133.220	138.500	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	4420m 7 0 0 3 3000m 2 -							SRI RFP GLP IPTGN	10 10 5 5					FP	1
7	Periyaveppathur Thangal							0.000	0.000	0							FP PTP	1 1						---	--

8	Periyakarumbur Hissa Tank	Periakarumbur	95.025		17.640		202.665	185.025	202.665	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	4225m 6 0 0 2 5000m 1 -							SRI RFP GMD GLP PFS	15 15 5 5 2					---	--
9	Periyakarumbur Small Tank	Periakarumbur	21.920		8.000		44.320	36.320	44.320	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	715m 1 0 0 1 500 1 -					PT	1	SRI RFP GMD GLP PFS	15 15 5 5 2					---	--
10	Seliambedu Aleri	Devambedu	44.300		14.325		71.625	57.300	71.625	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1555m 2 0 0 1 500 1 -			AE FR,V,FL	2+ 10+ 2 =**14**	ROTO DR Fr	1 2	SRI RFP GMD GLP PFS	15 15 5 5 2					---	--
11	Seganyam Large Tank	Sekanyam	78.020		33.910		166.190	132.280	166.190	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	4550m 5 0 0 2 3600m 2 -			AE FR,V,FL	1+ 7+ 2=**10**	PW Sp V	1 2	SRI RFP GMD GLP IPTGN PFS	25 25 5 5 5 2					---	--
12	Seganyam Small Tank						Joint	0.000	0.000	0							FP PT	1 1							FP	1
13	Umipedu Tank	Sekanyam	46.865		1.155		88.020	86.865	88.020	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1495m 4 0 0 1 1000 1 -							SRI RFP GMD GLP PFS	15 15 5 5 2					FP	1
14	Keerapakkam Tank	Keerapakkam	40.540		10.010			57.570	67.580	0	-	-			AEV	**5**	FP PTP Sp V	1 1 2						---	--
15	Kallur Tank	Kallur	109.510		29.200			153.310	182.510	0	-	-					ROTO	1	SRI RFP GMD GLP PFS	15 15 5 5 2					---	--

16	Uppunelvoyal Tank	Uppunelvoyal	71.140		17.550			101.020	118.570	0	-	-					MCT Sp gr	1 1	SRI RFP GMD GLP PFS	15 15 5 5 2					---	--
17	Pallipalayam Tank	Pallipalayam	55.120		11.400			80.460	91.860	0	-	-					ROTO Sp Pu	1 1	SRI RFP GMD GLP IPTGN PFS	25 25 5 5 5 2					---	--
	Total	**1536.325**	**853.250**		**167.365**	**0.000**	1072.805	**1368.960**	**1536.325**	**0.000**	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	29110m 40 0 0 18 21400m 13 -			AE, V , FL&FR	55	FP PTP PT DP Dr Fr Sp Ja Sp V	27	SRI RFP GMD GLP PFV OF IPT GN	225 225 75 75 30 15 75	-	-	-	-	FP	4
	Name of Cluster : CLUSTER NO 12																							
1	Anuppampattu Thangal	Anuppampattu	85.355		125.315		234.670	109.355	234.670	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1150m 1 1 1 0 1050m 1 -			AE FR,V	**2 + 2 =4**	PT	1	SRI RFP GMD GLP IPT GN	25 25 5 5 5					---	--
2	Athreyamangalam Tank	Aladu	48.375		2.720	1.505	122.600	118.375	121.095	1.505	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1625m 2 2 0 1 - 1 -			AE V	**5**	ROTO Dr Su	1 2	SRI RFP GLP IPT GN PFS	15 15 5 5 2					---	--
3	Devadanam Tank	Devadanam	88.205		88.205	63.140	273.550	122.205	210.410	63.14	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2355m 2 2 1 1 1350m 1 -			AE V	**5**	PT Dr Fr	1 2	SRI RFP GMD GLP IPTGN	10 10 5 5 5					---	--
4	Kadapakkam Small Tank	Kadapakkam	22.785		3.270		26.055	22.785	26.055	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1875m 2 1 0 1 - 1 -			AE FR,V	1 + 6 =**7**	Dr Fr	2	SRI RFP GLP IPTGN	10 10 5 5					---	--

5	Pralayambakkam Tank	Pralayambakkam	194.355			0.71	196.455	195.745	195.745	0.71	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2800m 2 2 0 1 1250m 1 -					PTP Sp gr	1 1	SRI RFP GLP IPT GN PFS	15 15 5 5 5 2					---	--
6	Sirupalaverkadu Seepaneri	Sirupalaverkadu	30.100		2.215		32.315	30.100	32.315	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2105m 2 2 1 - - 1 -			AE FR,V	1 + 3 =**4**	PW Dr Fr	1 2	SRI RFP GMD GLP IPTGN	10 10 5 5 5					---	--
7	Sirupalaverkadu Araneri	Sirupalaverkadu	17.705		2.855		24.560	21.705	24.560	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	900m 1 2 0 1 - 1 -							SRI RFP GMD GLP PFS	15 15 5 5 2					---	--
8	Thangal Perumbulam Tank	Thangal Perumbulam	184.515			11.220	195.735	184.515	184.515	11.22	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	2780m 2 1 1 0 - 1 -					PTP	1	SRI RFP GMD GLP PFS	15 15 5 5 2					---	--
9	Velur Palleri	Velur	29.825				53.825	53.825	53.825	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	3040m 2 1 1 0 1300m 1 -			AE FR,V	1 + 9 =**10**	ROTO Dr Fr DR Su	1 2 2	SRI RFP GMD GLP IPTGN PFS	25 25 5 5 5 2					---	--
10	Velur Ammaneri	Velur	159.335				199.335	199.335	199.335	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1640m 1 1 0 1 2000 1 -					PT Dr Su	1 2	SRI RFP GMD GLP PFV OF IPT GN	50 50 10 5 2 1 5					---	--
11	Vanjivakkam Large & Small Tank	Vanjivakkam	222.645		1.525		224.170	222.645	224.170	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	6445m 3 2 0 2 5950m 2 2			AE FR,V,FL	1+ 4 + 2 =**7**	FP MCT Dr Fr	1 1 2	SRI RFP GMD GLP PFS	15 15 5 5 2					---	--

12	Kadapakkam Large Tank	Kadapakkam	48.500		12.200		26.055	69.140	81.340	0	-	-							SRI RFP GMD GLP IPTGN PFS	25 25 5 5 5 2					---	--
13	Elavambedu Tank	Elavambedu	125.990		36.330		262.320	225.990	262.320	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	1370m 3 0 1 0 - - -			AE FR,V	1+2= **3**	PTP	1	SRI RFP GMD GLP PFV OF IPT GN	50 50 10 5 2 1 5			F.C hola m	0.4	---	--
14	Vannipakkam Large Tank	Vannipakkam	120.885				200.885	200.885	200.885	0	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	6455m 1 2 0 1 3050m - 2			AE FR,V	2 + 9 =**11**	PT Sp V	1 2	SRI RFP GMD GLP OF PFV IPT GN	30 30 10 5 1 2 5					---	--
15	Vannipakkam Small Tank	Vannipakkam			Joint						Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	950m 1 1 0 1 - 1 -					DP	1							---	--
	Total	**2127.815**	**1378.575**		**274.635**	**76.575**	2072.530	**1776.605**	**2051.240**	**76.575**	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	35490m 25 20 6 10 12950m 13 4			AE, V , FL&FR	45	FP PTP PT DP Dr Fr Sp Ja Sp V	32	SRI RFP GMD GLP PFV OF IPT GN	350 350 70 70 28 14 70	-	-	F.C hola m	0.4	-	-
	REFERENCE																							

	FP- Farm Pond (No)		Dr Fr- Drip for Fruit crops (Ha)			AIT- Aquaculture in Irrigation tank																		
	ROTO Rotovator		Dr Su- Drip for sugacane (Ha)			FSR- Fish seed training in cages																		
	PTP -Paddy Transplanter(No)		Dr Ro- Drip for Rose (Ha)			FP- Farm Ponds																		
	PT-Power Tiller(No)		Sp Ja- Sprinkler for Jasmine (Ha)			AE- Area Expansion																		
	MCT-Multicrop Thresher (No)		SpV -Sprinkler for Vegetables (Ha)			FL-Flower																		

	PW-Power weeder (No)	Sp pu -Sprinkler for Pulses (Ha)		FR-Fruits																				
	DP -Disc Plough (No)	Spgr-Sprinkler for groundnut(Ha)		V- Vegetables																				
		PTP- Self Propelled Paddy Transplanter for SRI (no)		F-Cholam - Fodder Cholam																				
		ROTO- Tractor drawn Rotovators (no)		CO3 -																				
	SRI – System of Rice Intesification	PT-Power Tiller (no)																						
	PFV – Precision Farming Vegetables	DP-Discplough (no)																						
	PFB – Precision Farming Banana	PW-Power weeder (no.)																						
	PFS – Precision Farming Sugarcane	MCT-Multi Crop Thresher (no.)																						
	RFP – Rice Fallow Pulses																							
	GMD – Green Manure Demo																							
	GLP – Garden Land Pulses																							
	OF – Organic Farming																							
	IPT GN – Improved Production Technology for Ground Nut																							

Cluster Convergence - ABSTRACT

Cluster No.	Ayacut total	Total Ayacut area in Ha.			Total Area in Ha.			WRD		Agriculture		Horti culture		AED		TNAU		Agri. Mark.		AHD		Fisheries	
		FI	PI	Gap area	WOP	WP	(Focus Crop)	Activities	Nos. & Length	Activities	Nos./ Ha.	Activities	Nos./ Ha.	Activities	Nos./Ha	Activities	Nos./ Ha.	Activities	Nos./ Ha.	Activities	Nos./Ha.	Activities	Nos./ Ha.
Cluster 1	1574.265	1296.640	116.645	160.980	1413.285	1574.265	0.000	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	22063m 40 0 0 22 22500m 21 4	0	0	AE, V , FL&FR	230	PT PW Sp V ROTO	44	SRI RFP GMD GLP PFV OF IPT GN	312 312 75 75 30 15 75	Storage Godown ,Commodity grouptraining,Trainingto WUA	6	Co 3 & F. Cholam	2	FSR AIT FP	4
Cluster 2	1885.550	350.580	1247.300	287.670	1597.880	1885.550	0.000	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel sup.chl lining Demarcation Culvert/ Inlet	18469m 32 0 0 18 29800m 900m 15 16	0	0	AE, V , FL&FR	218	FP PTP PT DP Dr Fr Sp Ja Sp V	43	SRI RFP GMD GLP PFV OF IPT GN	200 200 25 25 10 5 25	Expo.Visit,Commodity grouph training, Clus. Levl.Training & colln. Centr.	4	Co 3 & F. Cholam	1	FSR AIT FP	7
Cluster 3	2417.370	1250.550	670.855	315.510	1921.405	2236.915	180.455	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	24551m 36 0 0 21 26700m 14 14	0	0	AE, V , FL&FR	181	FP PTP PT DP Dr Fr Sp Ja Sp V	34	SRI RFP GMD GLP PFV OF IPT GN	270 270 45 45 18 9 45	Storage Godown & Dist. Level training	3	Co 3 & F. Cho	1	FSR AIT FP	7

																				I a m			
Cluster 4	1928.055	1189.310	461.300	246.365	1650.610	1896.975	31.080	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	27860m 16 16 2 15 18100m 13 7	0	0	AE, V , FL&FR	638	FP PTP PT DP Dr Fr Sp Ja Sp V	29	SRI RFP GMD GLP PFV OF IPT GN	280 280 70 70 28 14 70	Off.level Trai.,Storage Godown ,Agri.Busn. Cent., collection cetr.& Vill. Meet.	8	C o 3 & F . C h o l a m	1	AIT FP	2
Cluster 5	1387.200	863.470	323.170	200.560	1186.640	1387.200	0.000	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	22713m 14 15 2 13 15515m 13 3	0	0	AE, V , FL&FR	306	FP PTP PT DP Dr Fr Sp Ja Sp V	34	SRI RFP GMD GLP PFV OF IPT GN	160 160 55 55 22 11 55	Village meeting	4	C o 3 & F . C h o l a m	2	-	-
Cluster 6	2807.870	1341.230	870.080	560.515	2211.310	2771.825	36.045	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet Anicut repair	26910m 16 0 0 15 28300m 14 7 1	0	0	AE, V , FL&FR	254	FP PTP PT DP Dr Fr Sp Ja Sp V	29	SRI RFP GMD GLP PFV OF IPT GN	200 200 50 50 20 10 50	-	-	C o 3	1	AIT FP	4
Cluster 7	2258.660	926.945	801.130	530.585	1728.075	2258.660	0.000	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	25515m 22 0 0 20 12000m 13 3	0	0	AE, V , FL&FR	265	FP PTP PT DP Dr Fr Sp Ja Sp V	32	SRI RFP GMD GLP PFV OF IPT GN	220 220 60 60 28 12 55	-	-	C o 3	1	FSR AIT	2

Cluster 8	1707.805	684.475	741.265	240.255	1425.740	1665.995	41.810	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet Anicut repair	26605m 40 0 0 16 24350m 7 - 1	0	0	AE, V , FL&FR	56	FP PTP PT DP Dr Fr Sp Ja Sp V	28	SRI RFP GMD GLP PFV OF IPT GN	105 105 45 45 18 9 45	-	-	-	-	AIT FP	2
Cluster 9	1420.870	702.720	530.830	187.320	1233.550	1420.870	0.000	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	26975m 35 0 0 16 18400m 9 -	0	0	AE, V , FL&FR	19	FP PTP PT DP Dr Fr Sp Ja Sp V	22	SRI RFP GMD GLP PFV OF IPT GN	180 180 45 45 18 9 45	Storage Godown	1	C o 3	0	FP	3
Cluster 10	1267.330	832.240	228.230	206.860	1060.470	1267.330	0.000	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	30155m 41 0 0 13 16000 13 -	0	0	AE, V , FL&FR	33	FP PTP PT DP Dr Fr Sp Ja Sp V	22	SRI RFP GMD GLP PFV OF IPT GN	195 195 65 65 26 13 65	-	-	F . C h o l a m	0	AIT FP	4
Cluster 11	1536.325	853.250	515.710	167.365	1368.960	1536.325	0.000	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	29110m 40 0 0 18 21400m 13 -	0	0	AE, V , FL&FR	55	FP PTP PT DP Dr Fr Sp Ja Sp V	27	SRI RFP GMD GLP PFV OF IPT GN	225 225 75 75 30 15 75	-	-	-	-	FP	4
Cluster 12	2127.815	1378.575	398.030	274.635	1776.605	2051.240	76.575	Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Demarcation Culvert/ Inlet	35490m 25 20 6 10 12950m 13 4	0	0	AE, V , FL&FR	45	FP PTP PT DP Dr Fr Sp Ja Sp V	32	SRI RFP GMD GLP PFV OF IPT GN	350 350 70 70 28 14 70	-	-	F . C h o l a m	0	-	-
Total	**22319.115**	**11669.985**	**6904.545**	**3378.620**	**18574.530**	**21953.150**	**365.97**	**Bund Sluice Recon Sluice Repair Weir Recon Weir Repair Sup.Channel Sup Chl linin Demarcation Culvert/ Inlet Anicut repair**	**316416 357 51 10 197 246015 900 158 58 2**		**0**	**AE, V , FL&FR**	**2300**	**FP PTP PT DP Dr Fr Sp Ja Sp V**	**376**	**SRI RFP GMD GLP PFV OF IPT GN**	**2700 2700 900 900 360 180 900**	**Off.level Trai.,Storage Godown,Agri. Buisn. Cent., collecti on cetr.& Vill. Meet.**	**26**	**F . C h o l a m , C O 3**	**8**	**AIT,FP,F SR**	**39**

1.2 HYDROLOGY

GENERAL

1.2.1 LOCATION

Araniyar Sub Basin area is 763Sq km. The Taluks covered in this sub basin are Ponneri, Gummidipoondi and Uthukottai of Tiruvallur district.

1.2.2 CATCHMENT AREA OF ARANIYAR SUB-BASIN

The Araniyar Sub Basin has a typical climate, owing to the marginal catchments area in the Nagari Hills and extensive major catchments area in plains. Araniyar Sub Basin enjoys the benefits of mostly North East monsoon and moderately in South West Monsoon.

1.2.3 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.

1.2.4 RAIN FALL

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

Sl No	Name of Rain gauge Station	North East Monsoon	Summer	Winter	South west monsoon	Annual
1.	Ponneri	816	46	25	434	1321

a. CLIMATE

The Araniyar Sub Basin lies in a Medium rainfall belt having an annual average weighted rainfall of 1321 mm. Southwest monsoon contribute 434 mm, while NE monsoon contributes 277 mm . This basin receives a major share of its rainfall during NE monsoon. This monsoon helps to build up storage in the reservoirs and tanks both system and Non system. This basin has Nagari hills on Western side only . For the measurement of Hydro meteorological parameters in the basin area, there is one weather station at Minjur ; its data is taken for the study.

b. SOIL CLASSIFICATION

In this sub basin, due to different stages, Weathering & parent material, the soil types are met with in combination of Inceptisol, Alfisol, and Entisol. More prominent type is Inceptisol.

Inceptisol	Red or brown or grey soil with surface horizon more developed than sub surface. They are developing soils, moderately deep, coarse loamy to loam moderately drained to well drained	Suited for commonly grown crops with exceptions
Alfisol	The red or brown soils having accumulation of alleviated clay in sub surface horizon it well drained, poor water and nutrient holding capacity.	Annual crops with shallow roots systems cum up wells
Entisol	Reddish brown to red,light to medium textured and mostly non-calcareous soils. Dark brown to dark grey soils of fluvial origin, These soils are very deep,freely drained sands and have low water holding capacity.	Dry cultivatuion with millets,pulses and groundnuts

b.1 LAND HOLDINGS

The details of farm holdings and size classes prevalent in Araniyar Sub basin are given below:

Category	Size of holdings	Numbers	Percentage
Marginal	Below 1.00 Ha	57437	68.5%
Small	1.00 – 2.00 Ha	15093	18%
Medium	2.00 – 5.00 Ha	9732	11.6%
Big	5.0 ha & above	1588	1.89
Total		83850	

Above table revealed that the marginal farmers alone accounted for 68.5 percent in the sub basin followed by small farmers. Developmental initiatives will need to take the fact into account

1.2.5 DEMOGRAPHY

Name of Sub Basin	Total No. of Blocks	Total No. of Villages	Population in,m Million		
			2007	2010	2020
Araniyar Sub basin	5	235	0.166	0.173	0.200

1.2.7 LIVE STOCK - POPULATION

Name of Sub basin	Cattle	Buffalo	Sheep	Goats	Pigs	Dogs	Others	Poultry
Araniyar Sub basin	53097	33474	24383	27228	2469	11966	138286	253103
Annual requirement	10.156 Mcum							

1.2.8 INDUSTRIES & ANNUAL WATER DEMAND in Mcum

Name of Sub basin	Medium Industries			II Industries			Water Requirement		
	2007	2010	2025	2007	2010	2025	2007	2010	2025
Araniyar Sub basin	68	84	124	9651	12234	18765	131	157	241

CROPPING PATTERN

Name of the sub Basin	**: Araniyar**	Fully Irrigated	:	11669.99	Ha
District	: Thiruvallur	Partially Irrigated	:	6904.54	Ha
Registered Ayacut Area	22319.12 Ha.	Gap	:	3744.59	Ha
		Total Ayacut Area	:	**22319.12**	Ha

S.No.	Crop	Without Project				With Project				Increas-ing
		FI	PI	RF/G	TOTAL	FI	PI	RF/G	TOTAL	
I	**Perennial crop**									
1	Coconut	1546.00	-	-	1546.00	1725.00	-	-	1725.00	179.00
2	Guava	-	25.00	-	25.00	25.00	-	-	25.00	0
3	Mango	30.00	210.00	-	240.00	570.00	-	-	570.00	330.00
4	Rose	40.00	70.00	-	110.00	200.00	-	-	200.00	90.00
5	Jasmine	40.00	250.00	-	290.00	545.00	-	-	545.00	255.00
6	Fodder	2.00	4.00	-	6.00	13.00	-	-	13.00	7.00
	Total	**1658.00**	**559.00**	**0.00**	**2217.00**	**3078.00**	**0.00**	**0.00**	**3078.00**	861.00
II	**Annual Crop**									
1	Sugarcane	1000.00	-	-	1000.00	1500.00	-	-	1500.00	500
2	Banana	645.00	-	-	645.00	945.00	-	-	945.00	300.00
	Total	**1645.00**	**0.00**	**0.00**	**1645.00**	**2445.00**	**0.00**	**0.00**	**2445.00**	800.00
III	**1st crop**									
1. a	Paddy	6250.63	4704.54	-	10955.17	-	-	-	0	-10955.17
b	Paddy - SRI	-	-	-	0	11000.00	-	-	11000.00	11000.00
2	Maize	-	-	-	0	300.00	-	-	300.00	300.00
3	Pulses	97.00	346.00	-	443.00	1000.00	-	-	1000.00	557.00
4	Groundnut	1188.16	834.00	-	2022.16	2000.00	-	-	2000.00	-22.16
5	Vegetables									
	Bhendi	195.00	-	-	195.00	945.00	-	-	945.00	750.00
	Brinjal	135.00	-	-	135.00	575.00	-	-	575.00	440.00
	Chillies	100.00	-	-	100.00	345.00	-	-	345.00	245.00
	Gourds	50.00	-	-	50.00	258.15	-	-	258.15	208.15
	Greens	130.00	-	-	130.00	-	-	-	0	-130.00
6	Gingely	220.20	460.00	-	680.20	-	-	-	0	-680.20
7	Fodder Cholam	1.00	1.00	-	2.00	7.00	-	-	7.00	5.00
8	Buildings	-	-	365.97	365.97	-	-	365.97	365.97	0.00
9	Fallow	-	-	3378.62	3378.62	-	-	-	0	-3378.62
	Total	**8366.99**	**6345.54**	**3744.59**	**18457.12**	**16430.15**	**0.00**	**365.97**	**16796.12**	-1661.00
	Grand Total (I+II+III)	**11669.99**	**6904.54**	**3744.59**	**22319.12**	**21953.15**	**0.00**	**365.97**	**22319.12**	0.00
IV	**2 nd crop**									
1. a	Paddy	10955.00	5915.00	-	16870.00	-	-	-	0	-16870.00
b	Paddy - SRI	-	-	-	0	15500.00	-	-	15500.00	15500.00

2	Maize	-	-	-	0	2700.00	-	-	2700.00	2700.00
3	Groundnut	688.00	347.00	-	1035.00	4900.00	-	-	4900.00	3865.00
4	Pulses	1097.00	346.00	-	1443.00	2700.00	-	-	2700.00	1257.00
5	Gingely	-	180.00	-	180.00	500.00	-	-	500.00	320.00
6	Vegetables									
	Bhendi	50.00	-	-	50.00	50.00	-	-	50.00	0.00
	Brinjal	50.00	-	-	50.00	50.00	-	-	50.00	0.00
	Chillies	25.00	-	-	25.00	25.00	-	-	25.00	0.00
	Total	**12865.00**	**6788.00**	**0.00**	**19653.00**	**26425.00**	**0.00**	**0.00**	**26425.00**	6772.00
V	**3rd crop**									
1. a	Paddy	13200.00	-	-	13200.00	-	-	-	0	-13200.00
b	Paddy - SRI	-	-	-	0	12000.00	-	-	12000.00	12000.00
2	Maize	500.00	-	-	500.00	2300.00	-	-	2300.00	1800.00
3	Groundnut	-	-	-	0	3900.00	-	-	3900.00	3900.00
4	Pulses	3100.00	-	-	3100.00	3600.00	-	-	3600.00	500.00
	Total	**16800.00**	**0.00**	**0.00**	**16800.00**	**21800.00**	**0.00**	**0.00**	**21800.00**	5000.00
	Great Grand Total	**41334.99**	**13692.54**	**3744.59**	**58772.12**	**70178.15**	**0.00**	**365.97**	**70544.12**	11772.00
	Cropping Intensity				**246.55%**				**314.43%**	

CROP WATER REQUIREMENT WITHOUT PROJECT

Sl. No.	Name of Crop	Area in Ha	Crop water requirement in mm	Total Crop water requirement in Mcm	Irrigation water requirement at source Eff=43%	Total Irrigation requirement in Mcm
I	**Perennial Crops**					
1	Coconut	1546.00	724	11.193	26.03	26.03
2	Guava	25.00	256	0.064	0.15	0.15
3	Mango	240.00	402	0.965	2.24	2.24
4	Rose	110.00	509	0.560	1.30	1.30
5	Jasmine	290.00	509	1.476	3.43	3.43
6	Fodder	6.00	138	0.008	0.02	0.02
	Sub Total	**2217.00**		**14.27**	**33.18**	**33.18**
II	**Annual Crops**					
1	Sugarcane	1000.00	966	9.660	22.47	22.47
2	Banana	645.00	851	5.489	12.77	12.77
	Sub Total	**1645.00**		**15.15**	**35.23**	**35.23**
III	**1st Crop**					
1.a	Paddy	10955.18	882	96.625	224.71	224.71
b	Paddy - SRI	0.00	617	0.000	0.00	0.00
2	Maize	0.00	329	0.000	0.00	0.00
3	Pulses	443.00	300	1.329	3.09	3.09
4	Groundnut	2022.16	386	7.806	18.15	18.15
5	**Vegetables**			0.000	0.00	0.00
	Bhendhi	195.00	462	0.901	2.10	2.10
	Brinjal	135.00	464	0.626	1.46	1.46
	Chillies	100.00	370	0.370	0.86	0.86
	Gourds	50.00	268	0.134	0.31	0.31
	Greens	130.00	197	0.256	0.60	0.60
6	Gingelly	680.20	260	1.769	4.11	4.11
7	Fodder Cholam	2.00	213	0.004	0.01	0.01
8	Buildings	0.00	0	0.000	0.00	0.00
9	Fallow	0.00	0	0.000	0.00	0.00

	Sub Total	**14712.54**		**109.82**	**255.39**	**255.39**
	Grand Total (I+II+III)	**18574.54**		**139.23**	**323.80**	**323.80**
IV	**2nd Crop**					
1.a	Paddy	16870.00	727	122.645	285.22	285.22
b	Paddy SRI	0.00	509	0.000	0.00	0.00
2	Maize	0.00	382	0.000	0.00	0.00
3	Groundnut	1035.00	467	4.833	11.24	11.24
4	Pulses	1443.00	382	5.512	12.82	12.82
5	Gingelly	180.00	260	0.468	1.09	1.09
6	**Vegetables**			0.000	0.00	0.00
	Bhendhi	50.00	462	0.231	0.54	0.54
	Brinjal	50.00	464	0.232	0.54	0.54
	Chillies	25.00	370	0.093	0.22	0.22
	Sub Total	**19653.00**		**134.01**	**311.66**	**311.66**
V	**3rd Crop**					
1.a	Paddy	13200.00	696	91.872	213.66	213.66
b	Paddy SRI	0.00	487	0.000	0.00	0.00
2	Maize	500.00	382	1.910	4.44	4.44
3	Groundnut	0.00	386	0.000	0.00	0.00
4	Pulses	3100.00	267	8.277	19.25	19.25
	Sub Total	**16800.00**		**102.06**	**237.35**	**237.35**
	Great Grand Total	**55027.54**		**375.31**	**872.81**	**872.81**

Water Potential without Project

Surface Water Potential	=	223.72	Mcm
Ground Water Potential	=	268.10	Mcm
Total Potential	**=**	**491.82**	Mcm

Water Demand without Project

Domestic	=	4.64	Mcm
Livestock	=	10.16	Mcm

Industrial		=	131.00	Mcm
Irrigation	WRO	=	872.81	Mcm
	PU & GW	=	69.32	Mcm
Total Water Demand		**=**	**1087.93**	Mcm
Water Balance		=	**-596.11**	Mcm

CROP WATER REQUIREMENT WITH PROJECT

Sl.No.	Name of Crop	Area in Ha	Crop water requirement in mm	Total Crop water requirement in Mcm	Irrigation water requirement at source Eff=53%	Total Irrigation requirement in Mcm
I	**Perennial Crops**					
1	Coconut	1550.00	724	11.222	21.17	21.17
2	Guava	25.00	256	0.064	0.12	0.12
3	Mango	570.00	402	2.291	4.32	4.32
4	Rose	200.00	509	1.018	1.92	1.92
5	Jasmine	545.00	509	2.774	5.23	5.23
6	Fodder	13.00	138	0.018	0.03	0.03
	Sub Total	**2903.00**		**17.39**	**32.81**	**32.81**
II	**Annual Crops**					
1	Sugarcane	1000.00	966	9.660	18.23	18.23
2	Banana	945.00	851	8.042	15.17	15.17
	Sub Total	**1945.00**		**17.70**	**33.40**	**33.40**
III	**1st Crop**					
1.a	Paddy	0.00	882	0.000	0.00	0.00
b	Paddy - SRI	11000.00	617	67.914	128.14	128.14
2	Maize	300.00	329	0.987	1.86	1.86
3	Pulses	1000.00	300	3.000	5.66	5.66
4	Groundnut	2000.00	386	7.720	14.57	14.57
5	**Vegetables**			0.000	0.00	0.00
	Bhendhi	945.00	462	4.366	8.24	8.24
	Brinjal	575.00	464	2.668	5.03	5.03
	Chillies	345.00	370	1.277	2.41	2.41
	Gourds	258.15	268	0.692	1.31	1.31
	Greens	0.00	197	0.000	0.00	0.00
6	Gingelly	0.00	260	0.000	0.00	0.00
7	Fodder Cholam	7.00	213	0.015	0.03	0.03
8	Buildings	0.00	0	0.000	0.00	0.00

9	Fallow	0.00	0	0.000	0.00	0.00
	Sub Total	**16430.15**		**88.64**	**167.24**	**167.24**
	Grand Total (I+II+III)	**21278.15**		**123.73**	**233.45**	**233.45**
IV	**2nd Crop**					
1.a	Paddy	0.00	727	0.000	0.00	0.00
b	Paddy SRI	15500.00	509	78.880	148.83	148.83
2	Maize	2700.00	382	10.314	19.46	19.46
3	Groundnut	4900.00	467	22.883	43.18	43.18
4	Pulses	2700.00	382	10.314	19.46	19.46
5	Gingelly	500.00	260	1.300	2.45	2.45
6	**Vegetables**			0.000	0.00	0.00
	Bhendhi	50.00	462	0.231	0.44	0.44
	Brinjal	50.00	464	0.232	0.44	0.44
	Chillies	25.00	370	0.093	0.17	0.17
	Sub Total	**26425.00**		**124.25**	**234.43**	**234.43**
V	**3rd Crop**					
1.a	Paddy	0.00	696	0.000	0.00	0.00
b	Paddy SRI	12000.00	487	58.464	110.31	110.31
2	Maize	2300.00	382	8.786	16.58	16.58
3	Groundnut	3900.00	386	15.054	28.40	28.40
4	Pulses	3600.00	267	9.612	18.14	18.14
	Sub Total	**21800.00**		**91.92**	**173.43**	**173.43**
	Great Grand Total	**69503.15**		**339.89**	**641.30**	**641.30**

Water Potential with Project

Surface Water Potential		=	223.72	Mcm
Ground Water Potential		=	268.10	Mcm
Total Potential		**=**	**491.82**	Mcm

Water Demand with Project

Domestic		=	4.64	Mcm
Livestock		=	10.16	Mcm
Industrial		=	131.00	Mcm
Irrigation	WRO	=	641.30	Mcm
	PU & GW	=	69.32	Mcm
Total Water Demand		**=**	**856.42**	Mcm
Water Balance		=	**-364.60**	Mcm

ARANIAR SUB BASIN
WRITE-UP FOR REMARKS POINTED OUT BY WORLD BANK

The deficit in crop water requirement will be met with following infrastructures

1. A Check-dam with 3.5 metre height with an impounding capacity of 128.55 mcft is being constructed across Araniar River @ LS.93.600 Km, This Check-dam will facilitate to divert water from River to the Major tanks such as Chinnambedu Periya Eri and Arani tank through the existing off take channels and thereby it will increase the Storage capacity of surface & ground water potential.
2. A Check-dam with 3.0 metre height with an impounding capacity of 133 Mcft is proposed to be constructed during this year across Araniar River @ LS.90.600Km for which Administrative Sanction from Government is awaited shortly. This Check-dam will facilitate to divert water from River to major tanks such as Panayancheri and 82.Panapakkam tank and Maduravasal tank through the existing off take Channels and thereby it will augment the water potential.
3. The Check-dam near Kalpattu & 43.Panapakkam village with 1.50 metre height across Araniar River with an impounding capacity of 66 Mcft are proposed to be constructed during this year across Araniar River for which also Administrative Sanction from Government to awaited shortly. This Check-dam will facilitate to divert water from River to Kalpattu Tank and lower tanks and thereby it will augment the surface water potential / Ground water potential.

The deficit may be balanced as we are implementing new technologies in Agriculture & Horticulture in IAMWARM Project such as Drip irrigation, sprinkler irrigation etc.

There are about 3000 Deep Bore wells located in Ayacut area having the total yield of about 500 mcft in the Araniar Basin which is meant exclusively for irrigation purpose. The water available from this bore wells will also used to meet the deficit.

The upper basin having a catchment of 270 sq.mile is located just above the Araniar Sub Basin. The yield from the Catchment worked out to 2950Mcft of water in which only 1853 Mcft has been utilized through a reservoir called Araniar Reservoir. The balance quantity of water 1097Mcft is surplused to the Lower down Araniar Sub Basin.

More over the yield of 714 Cusec from the Upper Catchment is supplying through Sruttapalli Anicut to the 15 tanks having a Ayacut of 6066 Acre in the Araniyar Sub Basin. Hence the deficit quantity of water will be balanced from the available yield of upper basin catchment.

Executive Engineer, WRD,
Araniyaru Basin Division,
Chepauk, Chennai – 5.

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1.3 HYDRAULICS OF THE COMPONENTS

1.3.1 Anicuts

SALIENT FEATURES OF SURUTTAPALLI ANICUT

Year of Construction	**:**	**1954**
Combined Catchment Area	**:**	**270 Sq. miles (699.30 Sq. km)**
Length of Anicut	**:**	**516 ' (157.28 m)**
Crest of Anicut	:	+ 158.50' (+ 48.31 m)
Top of Falling Shutters	:	+ 160.50 ' (+ 48.92 m)
Falling Shutter	:	43' x 12' x 2'
Bottom level of anicut at average bed level of river	:	+ 155.50' (+ 47.40 m)
Free Catchment	:	173 Sq. miles (448.07 Sq.km)
Maximum flood level	:	Front 167.77' (51.14 m)
Maximum flood discharge	**:**	**35565 cusecs / 1007.07 m^3/sec**
Head Sluices of Left Flank		
No. of Vents	:	5
Size of the each Vent	:	8' - 0" x 5' - 0 "
Sill level of the head sluice	:	+155.00' (+ 47.24 m)
Discharge	:	714 Cusecs
Scour Vent at Left Flank		
No. of Vents	:	4
Size of the each Vent	:	8' - 0" x 6' - 60"
Sill of the sand vent	:	+154.00 (+ 46.94 m)
Discharge	:	1466 cusces
Suruttapalli Anicut Main Supply Channel		
Length of Channel	:	14.30 km
In Andirpradesh Limits	:	1.2 km
In Tamilnadu limits	:	13.1 km
Direct Ayacut	**:**	**Nil**
In direct Ayacut	**:**	**6066 Acres (2455.87 ha)**
No. of tanks Fed	**:**	**15**

SALIENT FEATURES OF A.N. KUPPAM ANICUT

Year of Construction	**:**	**1969**
Catchment Area	**:**	**954.88 sq.km**
Length of Anicut	**:**	**103.60 m**
Height of Anicut	:	2.60 m
Section of Anicut	:	Ogee curve
Crest Level of Anicut	:	El. 17.84 m
Bottom level of Anicut	:	El. 15.24 m
Front MFL	:	El. 21.25 m
Rear MFL	:	El. 20.00 m
Maximum Discharge	**:**	**1,218.48 m3/s**
		43,036 Cusecs / 1218.48 m^3/sec
Head Sluice (Left side only)		
No. of Vents	:	3
Size of Vents	:	1.5 m x 1.65 m
Sill Level	:	El. 16.00 m
Discharge	:	7.8 m3/s
Canal		
Length of Main Canal	:	4700 m
Bed width	:	4.50 m
Side slopes	:	1:01
Full supply depth	:	1.65 m
Bed Slope	:	1:2000
Design discharge	:	7.8 m3/s
Flood Protection bunds (Head Reach)		
Left Side		
Length	:	1.20 km
Top Bund level	:	El. 22.45 m
MFL	:	El. 21.25 m
Top Width	:	2.00 m
Side slopes	:	Front 1.5 : 1
		Rear 2:1
Right Side		
Length	:	1.00 km

Top bund level	:	El. 22.45 m
MFL	:	El. 21. 25 m
Top width	:	2.00 m
Side slopes	:	Front 1.5 :1
		Rear 2:1
Ayacut	**:**	**8141.71 Acres (3368.50 ha.)**
No. of Tanks Fed	**:**	**20**

SALIENT FEATURES OF LAKSHMIPURAM ANICUT

Year of Construction	**:**	**1965**
Year of Reconstruction	**:**	**2003**
Combined Catchment Area	:	973.80 sq.km
Free Catchment Area	:	204.60 Sq.km
Capacity	**:**	**300 Mcft.**
Crest Level of Anicut	:	+ 6.85 m
Sill Level of Head Sluices	:	+ 6.85 m
Front M.F.L	:	+ 10.24 m
Rear M.F.L	:	+ 9.45 m
Length of Anicut	**:**	**116 m**
Height of Anicut above apron Level	:	4.15 m
Apron Top Level	:	+ 2.700 m
Cut Off bottom Level	:	- 2.900 m
Maximum Flood discharge	**:**	**50290 Cusecs / 1424.04 m^3/sec**

Earth Flood Banks:-

Total Length of Flood Banks	:	0.50 on Anicut d/s side both sides 3.00 km on anicut u/s side bnoth sides 9 for both sides of anicut : 7.00 km)
Top width of bund	:	3.00 m
Slops of bund	:	Front 1 1/2 : 1, Rear 2:1
Top bund level	:	+ 11.300 m
Deep bed level	:	+ 1.000 m
Maximum height of bund	:	5.00 m

Anicut Portion :-

Scour Vent Level	:	+4.500 m
Scour Vent Size	:	2.00 m x 2.35 m one at either side of anicut
No.of Sluices	:	3 Nos. on each side
Size of Vents	:	1.50 m x 1.20 m, 3 Nos.
Designed Discharge	:	160 cusecs on each side
Head over the crest Ogee	:	3.35 m
Sill level of sluices	:	5.640 m
Ayacut	**:**	**3724.77 Acres (1541.10 ha.)**
No. of Tanks Fed	**:**	**4**

HYDRAULIC PARTICULARS OF SYSTEM TANKS

Sl.No	District	Taluk	Name of Tank	Ayacut in Ha	Capacity in Mcft	No of fillings	Free catchment in Sqkm	Combined catchment in Sqkm	WSA in Sqkm	FTL in metres	MWL in metres	No of Sluices	weir		Discharge in Cusecs	Length of bund in metres	Length of supply channel in metres	Upper tank	Lower tank
													Nos	Length in Metres					
	SURUTTAPALLI ANICUT																		
1	Tiruvallur	Uthukottai	Latchivakkam Tank	171.940	24.290	1			0.51	30.480	31.080	3	3	21.50 12.00 33.00	1483.23	2012	200	Palavakkam	Soolaimeni Thudapatheri
2	Tiruvallur	Uthukottai	Perandur Tank	268.390	66.300	1			0.35	50.000	50.600	5	1	14.80	1483.23	2426	900	Uthukottai Hissa Tank	43. Panapakkam Tank
3	Tiruvallur	Uthukottai	Senjiagaram Tank	136.770	7.570	1	4.09	4.09	0.13	40.995	41.445	1	1	23.10	706.30	945	1700	Senjiagaram Odai Thangal	Senjiagaram Singilikuppam Tank
4	Tiruvallur	Uthukottai	Senjiagaram Odai Thangal		0.630	1			0.05	40.535	41.450	1	1	9.15	105.95	427	700	Uthukottai Hissa Tank	Senjiagaram Tank
5	Tiruvallur	Uthukottai	Senjiagaram Singilikuppam Tank		1.370	1	0.98	1.45	0.08	36.650	37.100	1	1	15.60	317.84	640	1000	Senjiagaram Tank	Palavakkam
6	Tiruvallur	Uthukottai	Uthukottai Hissa Tank	342.290	73.720	1	16.57	30.29	1.19	48.500	48.900	6	1	36.60	2260.16	1910	3400	-	Senjiagaram Odai Thangal
7	Tiruvallur	Uthukottai	Kakkavakkam Hissa Tank	540.955	71.550	1	5.85	18.17	1.09	29.210	29.820	4	2	37.80 37.80	2330.79	2652	800	Soolaimeni Thudapatheri	Athupakkam Tank

8	Tiruvallur	Uthukottai	Soolaimeni Thudapatheri	40.290	3.410	1	1.92	1.92	0.16	30.480	30.935	1	1	53.00	1377.29	1265	600	Sengarai Hissa Tank	Kakkavakkam Hissa Tank
9	Tiruvallur	Uthukottai	Sengarai Hissa Tank	281.860	65.760	1			0.93	32.000	32.600	3	1	19.00	2048.27	2499	600	Sirunai Errakulam Tank	Soolaimeni Thudapatheri
10	Tiruvallur	Uthukottai	Sengarai Ammaneri Tank		0.520	1	0.39	0.39	0.03	34.135	35.135	1	1	8.00	176.58	314	500	Sirunai Errakulam Tank	Sengarai Ayyaneri Tank
11	Tiruvallur	Uthukottai	Sengarai Ayyaneri Tank		2.330	1	0.28	0.28	0.08	25.000	25.600	1	1	13.00	176.58	762	2800	Mukkarambakkam	Sengarai Hissa Tank
12	Tiruvallur	Uthukottai	Palavakkam Hissa Tank	103.055	22.080	1			0.51	30.480	31.080	2	1	19.00	847.56	1707	1200	Senjiagaram Tank	Sengarai Hissa Tank
13	Tiruvallur	Uthukottai	Sirunai Errakulam Tank		0.780	1	0.36	0.36	0.05	33.220	33.670	1	1	9.15	141.26	360	700	Palavakkam	Sengarai Hissa Tank
14	Tiruvallur	Uthukottai	Palavakkam Kuppam Thangal		3.470	1	0.85	7.25	0.10	35.125	35.575	2	1	20.50	847.56	550	700	Palavakkam	Sirunai Errakulam Tank
15	Tiruvallur	Gummidipoondi	Mukkarambakkam	171.040	59.710	1.5	3.987	26.77	0.855	31.525	32.135	2	1	40.35	2090	2210	-	Sengarai ayyaneri	-

	A.N.KUPPAM ANICUT																	
16	Tiruvallur	Gummidipoondi	Kilikodi Tank	204.980	17.800	2	1.68	1.68	0.73	12.42	12.88	4	1	18.60	374	2286	1400	Panpakkam Large Tank	Sombattu Tank
17	Tiruvallur	Gummidipoondi	Kilmudalambedu	210.065	41.860	2	3.63	3.63	0.71	16.65	17.05	5	1	45.00	627	3815	5200	-	Panpakkam Large Tank
18	Tiruvallur	Gummidipoondi	Panpakkam Large	139.810	59.980	2	3.16	8.8	1.23	15.25	16	5	2	51.92 3.66	670	2660	3200	Kilmudalam bedu Tank	Panpakkam Small Tank
19	Tiruvallur	Gummidipoondi	Panpakkam Small	45.000	1.410	2	0.57	4.66	0.17	14.8	15.55	2	1	40.00	250	730	2200	Panpakkam Large Tank	Enathimelpakkam Tank
20	Tiruvallur	Gummidipoondi	Peruvoyal Tank	123.000	17.070	2	2.59	2.59	0.42	30.48	31.85	4	1	32.30	584	2190	4600	Kilmudalam bedu Tank	Peruvoyal Putheri
21	Tiruvallur	Gummidipoondi	Peruvoyal Putheri	66.070	1.410	2	1.29	1.29	0.21	15.25	15.55	2	1	1.59	246	1585	2500	Peruvoyal Tank	Eliambedu
22	Tiruvallur	Gummidipoondi	Paranambedu Tank	98.230	4.170	2	0.78	0.78	1.82	12.16	12.62	3	1	23.20	462	1800	1200	Panpakkam Small Tank	Enathimelpakkam Tank
23	Tiruvallur	Gummidipoondi	Sombattu Tank	463.365	26.470	2	4.4	5.54	6.91	10.4	10.85	7	2	9.10 33.50	856	2650	1800	Kilikodi Tank	Arasur

24	Tiruvallur	Gummidipoondi	Enathimelpakkam Tank	153.650	11.340	2	3.88	12.38	0.32	10.53	11	5	2	51.80 30.48	1407	1990	2600	Parthambedu	Ayyanallur small
25	Tiruvallur	Ponneri	Asanabudur	99.790	22.620	2	0.725	0.725	0.834	5.335	5.640	4	2	21.3 11.27	356	3885	2000		Vanjivakkam small
26	Tiruvallur	Ponneri	Eliambedu	97.055	0.453	2	2.045	3.366	0.895	30.395	31.800	3	1			3020	2000		
27	Tiruvallur	Ponneri	Guduvanjeri hissa	136.630	15.840	2	5.178	20.038	0.736	8.945	9.405	6	2	63.4 18.3	1640	2940	1000	Kattavur	Medur large
28	Tiruvallur	Ponneri	Kattavur hissa tank	314.850	42.130	2	3.625	9.761	1.618	9.910	10.210	6	2	45.11 22.55	1190	3860	2000		
29	Tiruvallur	Ponneri	Appalavaram	53.125	2.719	2	1.605	7.146	0.155	8.380	8.840	2	2	79.25 12.19	1125	1555	1500		
30	Tiruvallur	Ponneri	Andavoyal	49.475	13.808	2	2.589	12.945	0.803	8.020	8.325	3	2	42.67 121.92	1266	2635	1200	Andavoyal	Ayyanallur
31	Tiruvallur	Ponneri	Arasur	91.315	23.625	2	3.884	3.884	1.062	8.980	9.435	3	1	121.92		4590		Sombattu	Medur
32	Tiruvallur	Ponneri	Medur large	811.820	50.120	2	7.249	11.935	1.522	7.315	7.695	12	3	14.94 50.29 10.50	1472	6875	10000	Guduvanjeri Hissa	

33	Tiruvallur	Ponneri	Medur krishnan thangal		1.120	2	0.207	0.207	0.089	7.450	7.760	3	1	15.24	100	770			Medur large
34	Tiruvallur	Ponneri	Avur large	283.290	28.600	2	5.670	16.621	1.477	5.790	6.400	4	2	30.48 15.24	1808	4835	2500	Andavoyal	Ilupakkam
35	Tiruvallur	Ponneri	Avur chitheri	30.760	0.850	2	0.518	0.518	0.052	5.790	6.250	2	1	15.24	183	610			Vembedu
36	Tiruvallur	Ponneri	Vanjivakkam large& small	224.170	30.371	2	2.201	2.667	1.517	4.270	4.725	4	2	30.35 11.75	1111	6455	4000	Asnabudur	-
	LAKSHMIPURAM ANICUT																		
37	Tiruvallur	Ponneri	Kumarasirlapakkam	129.400	6.675	2	1.553	1.553	0.334	5.850	6.080	4	3	10.97 40.23 36.58	356	2035			
38	Tiruvallur	Ponneri	Perumbedu	318.440	49.865	3	5.282	9.320	1.709	5.135	5.595	4	2	21.64 34.14	1120	4300	5000		
Total				**6200.880**	**873.796**	**-**	**99.588**	**233.006**	**31.438**	**-**	**-**	**131**	**56**	**594**	**33596**	**88750**	**71700**		

HYDRAULIC PARTICULARS OF NON SYSTEM TANKS

Sl.No	District	Taluk	Name of Tank	Ayacut in Ha	Capacity in Mcft	No of fillings	Free catchment in Sqkm	Combined catchment in Sqkm	WSA in Sqkm	FTL in metres	MWL in metres	No of Sluices	weir		Discharge in Cusecs	Length of bund in metres	Length of supply channel in metres	Upper tank	Lower tank
													Nos	Length in Metres					
1	Tiruvallur	Uthukottai	Ammambakkam	56.630	5.110	2			0.47	24.000	24.600	2	1	12.00	494.41	760	700	Ammambakkam Redgunta	Ammambakkam Chellamma
2		Uthukottai	Ammambakkam Chellamma		117.670	2			0.20	30.480	30.900	1	1	22.80	282.52	750	1200	Ammambakkam	Beemasamuthram
3		Uthukottai	Avicheri Chitheri	56.235	2.460	2			0.25	30.000	30.600	2	1	25.00	317.84	700	700	-	Pudhucheri
4		Uthukottai	Chellamma Kandigai Kanigala Kunda		125.000	2			0.11	30.480	30.865	1	1	3.40	247.21	690	800	-	Beemasamuthram
5		Uthukottai	Gunipalayam Peddha Cheruvu	45.585	9.350	2			0.18	30.480	30.945	1	1	30.60	494.41	1067	2100	-	Gunipalayam East
6		Uthukottai	Gunipalayam East	52.170	4.080	2			0.18	30.000	30.450	2	1	27.10	776.93	1000	2700	Gunipalayam pudu	Alli eri

7		Uthukottai	Seethanjeri	67.680	4.350	2			0.26	30.000	30.300	2	1	32.20	423.78	735	600	-	Kalavai
8		Uthukottai	Pennalurpettai Chinna Cheruvu	79.665	3.900	2			0.175	30.480	30.780	2	1	38.00	388.47	1100	1700	Reddikulam	Katchur Natteri
9		Uthukottai	Pennalurpettai Big	127.415	30.180	2			0.265	30.500	31.100	1	1	45.00	388.47	712	1200	Srinivasapuram Kasthuri Naidukunda	Katchur Natteri
10	Tiruvallur	Uthukottai	Pudhucheri Tank	96.085	8.770	2			0.17	30.480	31.090	2	1	21.00	317.84	1707	800	Avicheri	Katchur Natteri
11	Tiruvallur	Uthukottai	Srinivasapuram Kasthuri Naidukunda		2.010	2			0.18	32.000	32.600	1	1	15.60	282.52	512	2200	-	Pennalurpettai Big
12	Tiruvallur	Uthukottai	Srinivasapuram Putheri		2.950	2			0.26	30.000	30.600	1	1	12.40	247.21	700	2000	-	Pennalurpettai Big
13	Tiruvallur	Uthukottai	Athilivakkam Tank	43.400	2.420	2	0.96	2.23	0.16	58.820	59.740	2	1	39.70	388.47	914	2200	Alapakkam Tank	Velekapuram Big Tank
	Tiruvallur	Uthukottai	Perumal Odai		2.470	2			0.16	30.480	30.990	1	1	13.40	388.47	915	2200	Katchur Natteri	Velekapuram Big Tank
14	Tiruvallur	Uthukottai	Mamandur Kottavakkam Tank	40.010	5.150	2			1.42	30.480	30.990	1	1	15.00	176.58	700	1100	-	Perumal Odai
15	Tiruvallur	Uthukottai	Mambakkam Tank	204.885	45.190	2			7.8	24.380	24.850	6	1	60.00	2683.94	1890	2500	Peritivakkam Tank	Velekapuram Big Tank

16		Uthukottai	Kalavai Tank	61.490	11.150	2	2.74	4.84	0.18	65.230	65.830	1	1	21.60	670.99	470	2300	Seethanjeri Tank	Perumal Odai
17		Uthukottai	Peritivakkam Large & Small Tank	44.415	5.600	2	4.3	4.3	0.26	25.145	25.610	3	1	30.45	706.30	1640	3000	-	Mambakkam Tank
18		Uthukottai	Katchur Natteri	391.855	27.230	2			0.58	30.000	30.300	1	1	99.20	459.09	2590	6000	Avicheri	Pondavakkam Mukkani Thangal
19		Uthukottai	Pondavakkam Mukkani Thangal		5.120	2			0.38	30.480	30.915	1	1	20.30	282.52	680	400	Katchur Natteri	Perumal Odai
20		Uthukottai	Velekapuram Big Tank	124.770	11.340	2			2.5	15.240	15.840	3	1	27.30	317.84	1646	1800	Athilivakkam Tank	-
21		Uthukottai	Velekapuram Nagaleri	81.975	10.010	2			1.89	40.000	40.600	1	2	6.30 15.00	282.52	1100		-	-
22	Thiruvallur	Uthukottai	82. Panapakkam Tank	176.525	23.350	2			0.63	24.240	24.540	4	2	24.40 19.10	253	2256	3000	-	Panayacheri
23		Uthukottai	Alapakkam Tank	74.545	4.130	2			0.1	30.480	30.950	2	1	34.30	988.82	760	1200	Erumainaickankuppam Tank	Kannigaipair Tank
24		Uthukottai	Enambakkam Tank	72.480	9.100	2	1.42	1.42	0.16	35.110	35.410	3	1	39.20	423.78	1567	2000	-	-
25		Uthukottai	Kalpattu Tank	92.570	7.890	2	3.11	4.53	0.2	36.665	37.135	4	1	37.00	706.30	1360	1700	-	-

26		Uthukottai	Malandur Tank	108.085	9.300	2			0.86	49.500	51.500	2	1	21.20	247.21	900	1200	-	-
27		Uthukottai	Panapakkam Chitheri	77.960	4.530	2	2.59	13.36	0.45	30.480	31.080	2	1	67.35	1237	2422	2400	Vadamadurai Tank	Kannigaipair Tank
28		Uthukottai	Vadamadurai Tank	601.000	228.850	2	9.79	11.73	4.14	28.115	28.420	4	3	82.45 22.50 11.00	1271.34	3095	5200	Enambakkam Tank	82. Panapakkam Tank
29		Uthukottai	Manjankaranai tank	89.030	4.850	2													
30	Tiruvallur	Uthukottai	Ariyapakkam Tank	53.700	2.810	2			0.17	28.050	28.500	3	1	6.35	250	1173	700	Kakkavakkam Hissa Tank	-
31		Uthukottai	Athupakkam Tank	119.250	4.200	2	3.62	3.62	0.42	28.760	29.060	2	1	15.35	635.67	1707	1400	Kakkavakkam Hissa Tank	
32		Uthukottai	Kannigaipair Tank	559.730	120.920	2	6.47	34.72	3.06	19.020	19.620	5	3	21.90 30.45 34.00	2330.79	4562	2900	82. Panapakkam Tank	Manjankaranai
33		Uthukottai	Manjankaranai Small Tank	116.420	1.650	2	0.57	1.22	0.43	15.390	15.625	2	1	37.35	247.21	770	1500	Annathanakakkavakkam Tank	-
34		Uthukottai	43. Panapakkam Tank	150.250	8.780	2			0.60	15.240	15.690	4	1	26.00	1000	2256	3000	Perandur Tank	Latchivakkam Tank
35		Uthukottai	Sennankaranai Tank	125.825	2.010	2	1.24	4.04	0.18	32.000	32.600	1	1	23.00	706.30	1244	3200	-	Kakkavakkam Hissa Tank

36	Tirvallur	Ponneri	Arani	245.630	74.040	2	1.8 12	3.185	1.672	22.68	23.21	4	2	10.35 13.70	532	3565	3000	Rallapadi large	Chinnambedu large
37		Ponneri	Chinnambedu large	670.620	300.000	2	8.6 21	10.74 4	4.7	18.925	19.46	7	2	39.00 30.50	1501	5820	4600	Maliyankuppam thangal	Kilmeni
38		Ponneri	Chinnambedu small	46.140	9.030	2	0.3 88	0.388	0.359	18.54	18.77	2	1	36.60	155	1390	-	-	Vadakkunallur
39		Ponneri	Durainallur	79.630	9.580	2	0.9 06	0.906	0.567	14.275	14.505	2	1	46.30	328	1995	-	-	-
40		Ponneri	Kilmeni	79.005	15.250	2	1.9 42	12.68 6	0.567	13.87	14.325	2	2	14.50 44.35	1181	1630	-	Chinnambedu Large	-
41		Ponneri	Perunchery	73.375	3.178	2	0.4 8	0.18		15.00	15.30	1	1	16.00	145	591	-	-	-
42		Ponneri	Pondavakkam pudu	50.590	5.047	2	1.2 8	1.28	0.188	28.81	29.27	3	1	12.80		1189	-	-	-
43		Ponneri	Vadakkunallur	81.655	13.960	2	1.2 95	2.331	0.405	16.075	16.535	1	1	21.35	429	1845	-	Chinnambedu Small	Puduvoyal
44		Ponneri	Vairavankuppam	41.240	1.090	2	0.1 81	0.181	0.079	11.31	11.765	2	1	7.60	92	1675	-	-	-
45		Ponneri	Akkarapakkam	174.275	53.580	2	3.8 84	9.994	1.65	18.445	18.905	4	2	21.80 30.50	1184	2580	-	Thirunilai	-

46	Tirvallur	Uthukottai	Rallapadi large	66.785	5.200	2	0.803	0.803	0.232	23.715	24.17	1	1	24.40	230	1075	-	-	Arani
47		Uthukottai	Tirunilai	93.635	19.030	2	1.942	3.055	0.613	19.72	20.13	2	1	29.40	503	2560	-	Velapakkam Small	Akkarapakkam
48		Gummidipoondi	Puduvoyal	145.345	8.758	2	0.93	4.04	0.359	15.24	15.85	1	1	30.50	550	1463	1800	Vadakkunallur	-
49		Ponneri	Peravallur	80.130	9.076	2	0.5	0.984	0.984	12.45	12.83	2	1	21.65	330	1845	-	-	-
50	Tiruvallur	Ponneri	Bandikavanur large	55.105	1.790	2	1.346	1.346	0.138	16.125	16.585	2	2	7.95 48.75	319	1405	-	-	-
51		Ponneri	Bandikavanur small	58.490	0.630	2	0.259	0.259	0.087	15.88	16.26	1	1	15.25	140	585	-	-	-
52		Uthukottai	Maduravasal	196.525	46.250	2	2.33	3.262	1.255	20.88	21.185	4	2	20.95 43.90	638	3215	1700	Panapakkam	-
53		Uthukottai	Panayancheri	184.305	33.060	2	0.229	0.229	1.007	21.565	21.825	3	1	50.90	434	3710	4300	Siyappanjeri	Akkarapakkam
54		Uthukottai	Velapakkam large	108.820	5.370	2	1.295	1.295	0.242	23.49	23.995	2	2	4.40 18.30	329	1680	1100	-	Siyappanjeri
55		Gummidipoondi	Karani	74.070	7.769	2	1.968	9.168	0.298	30.79	31.09	3	1	38.10	166	1950	2000	Nelvoy	-

56		Gummidipoondi	Mangalam	42.550	2.119	2	0.57	0.57		25.00	25.61	1	1	6.45	89	914	-	-	-
57		Gummidipoondi	Nelvoy	144.675	3.360	2	1.761	1.761	0.078	27.13	27.13	3	1	20.40	408	1980	1615	-	Karani palaya eri
58		Gummidipoondi	Paleswaram	67.295	1.413	2	1.036	1.036	0.052	29.25	30.63	2	1	8.85	125	1097	-	-	-
59	Tiruvallur	Gummidipoondi	Serpedu	85.390	5.420	2	2.149	2.149	0.207	31.93	32.385	1	1	22.25	441	900	500	-	Erukkuvoy
60		Uthukottai	Kadanallur	52.895	5.297	2	1.21	1.21	0.722	30.48	30.93	2	1				-	-	-
61		Uthukottai	Amirthanallur	146.040	12.360	2	3.239	3.239		14.64	15.09	1	2	34.75	149	2286	-	-	Adambakkam
62	Tiruvallur	Gummidipoondi	A.N. Kuppam Tank	133.435	7.060	2	0.9	7.74	0.19	15.25	15.83	2	2	40.00	626	2400	2500	Kannalur Pudhu Eri	Melmudalambedu tank
63		Gummidipoondi	Erukkuvoy Tank	764.665	21.190	2	6.78	8.93	0.42	28.4	29.01	2	1	36.90	1140	1750	1500	Serppedu	Palavakkam tank
64		Gummidipoondi	Gummidipoondi Perumanjaneri	80.450	5.240	2	2.36	2.87	0.13	19.35	19.8	1	1	11.20	578	700	800	-	
65		Gummidipoondi	Gummidipoondi Hissa	501.220	27.740	2	7.38	11.99	0.64	14.02	14.5	7	2	23.30 45.70	1474	3750	2000	Melmudalambedu tank	Ayyanallur Large Tank

66		Gummidipoondi	Kannalur Pudhu Eri	67.815	6.550	2	1.04	1.04	0.32	25.71	26.16	2	1	20.42	287	1400	-	-	Palavakkam tank
67		Ponneri	Kanagambakkam	40.500	6.700	2	2	2	0.32	15	15.45	2	1	24.00	360	1200	1000	Kilmudalam bedu Tank	Kollur Tank
68		Ponneri	Kollur Tank	42.110	2.800	2	1.05	1.05	0.18	11	11.45	3	1	57.00	855	1300	500	Kanagam bakkam Tank	Eliambedu
69		Gummidipoondi	Melmudalambedu	203.000	21.160	2	1.55	1.55	0.71	17.72	18.18	3	1	10.10	360	2400	2500	A.N. Kuppam Tank	Gummidipoondi Hissa
70		Gummidipoondi	Palavakkam tank	185.750	30.120	2	8.41	19.32	0.76	22.94	23.55	4	1	56.25	1738	2644	-	Erukkuvoy Tank	-
71	Tiruvallur	Gummidipoondi	Athupakkam Large	175.955	7.150	2	3.37	3.37	0.36	11.59	12.05	2	1	31.10	624	671	-	-	Athupakkam Kannaputheri Small
72		Gummidipoondi	Athupakkam Kannaputheri		0.330	2	1.55	4.92	0.026	8.78	8.78	1	2	14.10 16.45	688	884	-	Choliam bakkam	Rettambedu
73		Gummidipoondi	Ayyanallur Large	258.905	44.800	2	3.4	17.6	1.79	15.9	15.83	5	3	101.80	8642	3475	3000	Chinnacholiambakkam	Kuruviagaram Tank
74		Gummidipoondi	Ayyanallur Small	157.405	6.700	2	0.86	0.86	0.363	14.75	15.21	2	1	20.12	1412	1463		Andavoyal	Avur large
75		Gummidipoondi	Chinnacholiambakkam Ochan Thangal	83.585	0.710	2	1.15	1.15	0.054	8.61	8.91	2	1	42.67	420	1224	3000	Gummidi poondi Hissa	Athupakkam Kannaputheri Small

76	Tiruvallur	Gummidipoondi	Kuruviagaram Tank	272.660	14.600	2	2.12	2.12	0.725	6.17	6.55	4	2	24.70 5.50	466	2195	2000	Rettambedu Tank	Periyakaram bur hissa
77		Gummidipoondi	Melakalani Hissa	198.515	34.850	2	5.02	5.85	1.3	6.61	7.22	4	1	60.96	1130	1830	4000	Sennavaram Tank	Umippedu
78		Gummidipoondi	Palaya Gummidipoondi Thamarai	0.000	11.860	2	2.67	2.7	0.34	14.44	14.74	3	1	18.30	726	1140	-	-	Ayyanallur Large Tank
79		Gummidipoondi	Rettambedu Tank	215.155	11.650	2	2.59	4.68	0.569	7.1	7.58	4	2	11.15 27.40	668	3340	-	Vazhudalam bedu	Kuruviagaram Tank
80		Gummidipoondi	Sennavaram Tank	51.685	3.020	2	0.93	2.9	0.13	8.08	8.53	2	2	15.24 30.48	550	770	-	Peria Natham Thattan Tank	Sennavaram savaraikulam
81		Gummidipoondi	Thervali kuttan kulam Thamarai & Thervali thamarai	46.365	0.860	2	0.18	1.27	0.039	12.34	12.95	2	1	13.40	249	460	1000	-	Ayyanallur Large Tank
82		Gummidipoondi	Vazhudalambedu Large & Small	83.185	6.700	2	2.1	2.1	0.31	8.18	8.64	4	1	21.30	430	1500	-	-	Rettambedu Tank
83	Tiruvallur	Ponneri	Aladu periya thangal	62.320	13.208	2	0.570	1.087	0.845	30.480	30.785	2	1	65.00		1030			
84		Ponneri	Erisivan	41.200	2.190	4	1.424	1.424	1.210	15.240	15.700	4	1			755	2000	-	-

85		Ponneri	Kummangalam	96.085	12.396	2	2.434	2.434	0.600	14.110	14.355	5	1	32.85	477	2830	3000		Venbakkam
86		Ponneri	Lakshmipuram	40.135	3.320	2	1.165	1.165	0.186	30.480	30.785	4	1	15.00		720	1500	-	-
87		Ponneri	Manopuram	50.180	8.334	2	0.725	0.725	0.663	15.240	15.545	3	1			910	1500	-	-
88		Ponneri	Thadaperumbakkam	208.410	27.970	2	3.884	8.440	0.974	30.195	30.480	7	1			2025			
89		Ponneri	Aladu	113.310	18.187	2	1.087	1.087	0.845	30.480	30.940	5	1	28.00		2080			
90	Tiruvallur	Ponneri	Onbakkam	79.130	6.600	2	1.243	1.243	0.460	15.240	15.545	4	2	13.30 13.00		1570		Thirupalaiva nam	
91		Ponneri	Sitrasur	43.800						14.295	14.295	1	1			1530			
92		Ponneri	Thiruppalaivanam	152.625	8.758	3	0.880	1.502	0.609	30.480	30.785	4	3	100 25.00 55.00		2615	1500		
93		Ponneri	Vembedu	73.610	11.089	2	1.295	10.486	0.388	5.485	5.870	4	1	52.30	1283	2735	2000	Avur large	Kachivoyal large
94		Ponneri	Vidathandalam	65.970	5.333	1.5	2.356	2.356	0.285	6.700	7.300	4	1	21.00		2100	500	Arasur large	Avur large

95	Tiruvallur	Ponneri	Annamalaicheri large	121.375	8.864	2	1.062	1.062	0.777	2.310	2.770	3	1	15.20	306	3785			
96		Ponneri	Annamalaicheri small		1.024	2	0.544	0.544	0.104	2.270	2.425	2	1	91.44	280	945			
97		Ponneri	Avurivakkam	41.025	5.756	2	0.518	0.518	0.518	2.220	2.525	4	1	21.30	233	2865			
98		Ponneri	Kanchivoyal	44.855	2.790	3	0.440	4.324	0.195	30.480	31.090	3	1	21.30	462	1160	2000	Vembedu	
99		Ponneri	Kolur small	127.480	16.033	2	2.667	2.667	0.973	14.815	15.120	5	1	82.29	620	2805	500	Kolur Large	
100		Ponneri	Kolur large	268.610	28.000	2	3.159	4.505	1.301	4.270	4.695	9	1	94.00	1500	3320	1000	Illupakkam	Kolur Small
101		Ponneri	Poovami large	135.540	14.620	2	1.605	1.605	0.647	4.070	4.450	2	1	28.65	387	2805	3000	Vembedu	Kanchivoyal
102		Ponneri	Poovami small		8.900	2	0.647	0.647	0.517	3.660	3.960	1	1	33.55	220	1005			
103		Ponneri	Pakkam large	84.985	4.167	2	0.363	0.363	0.258	2.850	2.925	3	2	8.69 8.69	132	2165			
104	Tiruvallur	Ponneri	Sirlapakkam large	129.410	11.018	2	0.621	0.621	0.621	2.745	2.745	7	1	16.15	193	3020			

105		Ponneri	Sirlapakkam small		0.742	2	0.596	0.596	0.052	2.115	2.420	2	1	30.50	200	430		-	-
106	Tiruvallur	Ponneri	Ilupakkam	96.380	15.080	2	1.372	1.372	0.539	5.595	6.050	3	2	49.68 15.24	1304	2350	1300	Avur large	Kolur large
107		Ponneri	Kanganimedu	40.275	4.273	2	2.071	2.071	0.155	3.355	3.660	1	2	37.50 14.02	547	1250			Periya karumbur Tank
108		Ponneri	Kudinelvoyal	62.325	7.240	2	1.165	2.045	0.505	3.155	3.310	5	1	30.48	496	2775	3000	Periyakarum bur Tank	
109		Ponneri	Kumaranjeri	66.115	19.353	2	1.579	1.579	0.886	5.690	5.990	2	2	11.27 15.55	846	2670	1500	Ayyanallur	
110		Ponneri	Panapakkam	99.390	11.018	2	0.647	0.647	0.647	4.570	4.800	3	2	35.51 148.81	496	3105	1500	Ayyanallur	
111		Ponneri	Periyaveppathur Large	138.500	9.271	2	3.236	3.236	0.569	2.575	3.035	3	2	18.29 15.24	1497	2410	1500	Ayyanallur	
112		Ponneri	Periyaveppathur Thangal		2.295	2	0.440	0.440	0.155	2.440	2.820	4	1	11.89	157	2010	1500		
113		Ponneri	Periyakarambur Hissa	202.665	26.486	2	5.049	10.304	1.476	4.830	5.340	6	1	31.70		4225	5000	Saganyam	Keerapakkam
114		Ponneri	Priyakarambur small	44.320	1.030	2	0.880	0.880	0.104	3.725	4.030	1	1	38.10	250	415			Agaram Hissa

115		Ponneri	Seliyambedu Aleri	71.625	6.815	2	1.295	1.295	0.336	2.895	3.050	2	1	8.69	330	1555		Injur vellanuri	
116	Tiruvallur	Ponneri	Segayam large	166.190	21.260	2	2.304	4.375	0.898	6.400	6.860	4	1			2575	3000		
117		Ponneri	Seganyam small		0.565	2	0.492	4.867	0.078	5.260	5.870	1	1			1975	600		
118		Ponneri	Umippedu	88.020	10.277	2	0.880	3.806	0.372	30.175	30.785	4	1	17.68	539	1495			
119		Ponneri	Keerapakkam	67.580	19.000	2	2.537	15.585	1.115	2.850	3.765	6	1	45.72	1720	3180		Pallipalayam	Kallur
120		Ponneri	Kallur	182.510	17.763	2	1.217	16.544	0.959	2.315	2.700	7	1	94.50	144.1	3005		Keerapakkam	
121		Ponneri	Uppunelvoyal	118.570	6.286	2	1.139	1.528	0.388	2.545	2.850	3	1	60.96	400	2050		Periya karumbur	Keerapakkam
122		Ponneri	Pallipalayam	91.860	3.955	2	1.295	1.295	0.258	3.050	3.430	5	1	25.90	383	1585		Periya karumbur	Keerapakkam
123	Tiruvallur	Ponneri	Anuppampattu thangal	234.670	6.357	2	1.036	1.036		15.250	15.550	2	1			1150			
124		Ponneri	Athreyamangalam	122.600		2	3.159	8.673		15.240	15.850	4	1			1625			

125		Ponneri	Devadanam	273.550	49.865	3	5.282	9.320	1.709	5.135	5.595	4	2	29.25111.40	2824	2355	1350	-	Velur large&small
126		Ponneri	Kadapakkam small		6.000	2	1.139	1.139	0.270	2.145	2.600	2	1	15.10	251	1875		Thathamanji	-
127		Ponneri	Pralayambakkam	196.455	10.418	2	1.605	1.605	0.569	2.590	3.050	4	1	19.20	385	2800	1250	-	-
128		Ponneri	Sirupalaverkadu seepaneri	56.875	2.896		0.647	2.693		1.540	1.925	4	1	30.50	599	2105		Kadapakkam Large	-
129		Ponneri	Sirupalaverkadu araneri										1	27.45				Kadapakkam Large	-
130		Ponneri	Thangalperumbulam	195.735	9.994	2	0.984	0.984	0.696	2.590	3.050	3	1	21.65	260	2780		-	-
131	Tiruvallur	Ponneri	Velur palla eri	53.825	11.795	2	2.071	4.401	0.630	5.565	6.020	3	1	89.70	1640	3040	1300	Velur Small	-
132		Ponneri	Velur ammaneri	199.335	3.284	2	2.330	2.330	0.182	5.975	6.430	2	1	89.90	1805	1640		Devadanam	Velur large
133		Ponneri	Kadapakkam large	107.395	5.085	2	1.709	1.709	0.354	2.310	2.845	3	1	15.25	385	2105		-	Sirupalaverkadu seepaneri
134		Ponneri	Elavambedu	262.32	1.66	2	1.89	1.89	0.155	30.175	30.785	3	1			1370			

135		Ponneri	Vannipakkam large	200.885									-	-	1880	-	-	-
136		Ponneri	Vannipakkam small		2.507	2	0.337	0.337	0.186	7.925	8.305	2	1	12.20	146		-	Nalur large
Total				**16118.235**	**2308.454**	**-**	**215.648**	**425.688**	**82.785**	**-**	**-**	**380**	**167**	**3263.32**	**7833.85**	**241051**	**153315**	

1.4 PARTICIPATORY IRRIGATION MANAGEMENT (PIM)

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

1. **The Sub-Basin:** This is one of the Five sub-basins of the Chennai River Basin. Totally 174 irrigation tanks and 2 Anicuts are under the control of Water Resources Organization (WRO) of Public Works Department (PWD) in this sub-basin. One Anicut namely Suruttapalli Anicut is situated in Andhra Pradesh and maintained by the Andhra Pradesh State Government Irrigation Department. 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 215 villages of 3 Taluks in Tiruvallur District. The Total Command area under these Infrastructures worksout to 22319.115 Ha. **(Anniexure1).**
2. **Command area :**

   System Tanks:

   (a) Surutapalli Anicut – 15 Nos : 2056.59 Ha

   (b) A.N.Kuppam Anicut – 21 Nos : 3696.45 Ha

   (c) Lakshmipuram Anicut – 2 Nos : 447.84 Ha

   Non-System Tanks:

   Ellapuram Block – 22 Nos : 3440.65 Ha

   Poondi Block – 21 Nos : 1574.265 Ha

   Gummidipoondi Block – 25 Nos : 4039.075 Ha

   Cholavaram Block – 12 Nos : 1561.610 Ha

   Minjur Block – 56 Nos : 5502.635 Ha

   Total : 22319.115 Hectares

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

i)	No of WUAs already formed in WRCP	16 Nos
ii)	Associates proposed to be formed under IAMWARM Project covering 154tanks and 166 Villages only.	121 Nos.

iii)	The Total command area covered by the above (121) WUAs works out to	18618.89 Hectare.
iv)	More details about formation of WUAs 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 174 Tanks and 2 Anicuts in the Sub-Basin spread over 215 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 April -09)

ii) Form – II : WUA document to be notified by District Collectors (End of May – 09)

iii) Completion of preparatory works for the conduct of Elections for WUAs (End of July -09)

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

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

   i) Initiating and completing the process of publishing EOI to hire Support Organisation at Sub-Basin level (End of May 2009)

   ii) Short listing and Providing Request for Proposals (RFPs) p all the short listed agencies, and obtaining Technical and Cost Proposals (Middle of June 2009)

iii) Selection and deployment of Support Organization to the Sub-Basin (End of July 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/Section Officers working in the Araniyar Sub-Basin:

a. <u>Araniyar Basin sub division: All WUAs of this Sub Basin</u>

a.	Section Officer, WRO, Irrigation Section Uthukottai.	WUAs 1 to 13 and WUAs 67 to 93
b.	Section Officer, WRO, Irrigation Section Arani.	WUAs 59 to 66 and 94 to 98
c.	Section Officer, WRO, Lakshmipuram Anicut Section, Kavarapettai.	WUAs 14 and WUAs 99 to 121 & 57 to 58
d.	Section Officer, WRO, Irrigation Section Ponneri.	WUAs 15&16 and WUAs 15 to 40 &42 to 46
e.	Section Officer, WRO, Irrigation Section Minjur.	WUAs 41, 47 to 56

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 2294 No. of farmers from 235 Villages. The final list of tasks proposed to be exhibited in the the Village Administrative Officers Office and Panchayat Office.

ii) It is proposed to conduct the meeting with the farmers and they will be informed about the contract details 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 (25 numbers out of 215 Villages) located with in the Sub-Basin the normal water charges recovery as informed by the VAO, works out to 20-30% only, about the expected percentage of 80-90%.

ii) With the proposal to form new WUAs under IAMWARM in "Araniyar 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.

Annexure: 1

AN ASSESSMENT OF COMMAND AREA AND WUAs UNDER THE CONTROL OF WRO OF PWD IN ARANIYAR 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 WUA's in the sub basin	
			Village	Taluk	District	WRCP and others	IAMWARM	Formed under WRCP	To be formed under IAMWARM
	SYSTEM TANKS								
WUA - 1	Kakkavakkam Hissa Tank	540.955	Kakkavakkam	Uthukottai	Tiruvallur	-	540.955	-	Yes
WUA - 2	Latchivakkam Tank	171.940	Latchivakkam	Uthukottai		-	171.940	-	Yes
WUA - 3	Palavakkam Hissa Tank	103.055	Palavakkam	Uthukottai		-	103.055	-	Yes
WUA - 3	Sirunai Errakulam Tank	Joint	Sirunai Errakulam	Uthukottai		-	Joint	-	Yes
WUA - 3	Palavakkam Kuppam Thangal	Joint	Palavakkam	Uthukottai		-	Joint	-	Yes
WUA - 4	Perandur Tank	268.390	Perandur	Uthukottai		-	268.390	-	Yes
WUA - 5	Sengarai Hissa Tank	281.860	Sengarai	Uthukottai		-	281.860	-	Yes
WUA - 5	Sengarai Ammaneri Tank	Joint	Sengarai	Uthukottai		-	Joint	-	Yes
WUA - 5	Sengarai Ayyaneri Tank	Joint	Sengarai	Uthukottai		-	Joint	-	Yes
WUA - 5	Soolaimeni Thudapatheri	40.290	Soolaimeni	Uthukottai		-	40.290	-	Yes
WUA - 6	Senjiagaram Tank	136.770	Senjiagaram	Uthukottai		-	136.770	-	Yes
WUA - 6	Senjiagaram Odai Thangal	Joint	Senjiagaram	Uthukottai		-	Joint	-	Yes
WUA - 6	Senjiagaram Singilikuppam Tank	Joint	Senjiagaram	Uthukottai		-	Joint	-	Yes
WUA - 7	Rettambedu Tank	215.155	Rettambedu	Gummudipoondi		-	215.155	-	Yes
WUA - 8	Uthukottai Hissa Tank	342.290	Uthukottai	Uthukottai		-	342.290	-	Yes

WUA - 9	Mukkarambakkam	171.040	Mukkarambakkam	Gummudipoondi		-	171.040	-	Yes
WUA - 10	Enathimelpakkam Tank	153.650	Enathimelpakkam	Gummudipoondi		-	153.650	-	Yes
WUA - 11	Kumarasirlapakkam	129.400	Kumarasirlapakkam	Ponneri		-	129.400	-	Yes
WUA - 12	Perumbedu	318.440	Perumbedu	Ponneri		-	318.440	-	Yes
	NON-SYSTEM TANKS								
WUA - 13	Arani	245.630	Arani	Ponneri	Tiruvallur	-	245.630	-	Yes
WUA - 14	Bandikavanur large	55.105	Bandikavanur	Ponneri		-	55.105	-	Yes
WUA - 14	Bandikavanur small	58.490	Bandikavanur	Ponneri		-	58.490	-	Yes
WUA - 15	Chinnambedu large	670.620	Chinnambedu	Ponneri		-	670.620	-	Yes
WUA - 16	Chinnambedu small	46.140	Chinnambedu	Ponneri		-	46.140	-	Yes
WUA - 17	Kilmeni	79.005	Kilmeni	Ponneri		-	79.005	-	Yes
WUA - 18	Peravallur	80.130	Peravallur	Ponneri		-	80.13	-	Yes
WUA - 19	Perunchery	73.375	Perunchery	Ponneri		-	73.375	-	Yes
WUA - 20	Pondavakkam pudu	50.590	Pondavakkam	Ponneri		-	50.590	-	Yes
WUA - 21	Vadakkunallur	81.655	Vadakkunallur	Ponneri		-	81.655	-	Yes
WUA - 22	Vairavankuppam	18.240	Vairavankuppam	Ponneri		-	18.240	-	Yes
WUA - 23	Maduravasal	196.525	Maduravasal	Uthkottai		-	196.525	-	Yes
WUA - 24	Tirunilai	93.635	Tirunilai	Uthkottai		-	93.635	-	Yes
WUA - 25	Puduvoyal	145.345	Puduvoyal	Gummudipoondi		-	145.345	-	Yes
WUA - 26	Annamalaicheri large	121.375	Annamalaicheri	Ponneri		-	121.375	-	Yes
WUA - 26	Annamalaicheri small	Joint	Annamalaicheri	Ponneri		-	Joint	-	Yes
WUA - 27	Avurivakkam	39.025	Avurivakkam	Ponneri		-	39.025	-	Yes
WUA - 28	Aladu	113.310	Aladu	Ponneri		-	113.31	-	Yes
WUA - 28	Aladu periya thangal	62.320	Aladu	Ponneri		-	62.320	-	Yes
WUA - 29	Erisivan	39.620	Erisivan	Ponneri		-	39.620	-	Yes
WUA - 30	Ilupakkam	96.380	Ilupakkam	Ponneri		-	96.380	-	Yes
WUA - 31	Kallur	182.510	Kallur	Ponneri		-	182.51	-	Yes
WUA - 32	Kanchivoyal	44.855	Kanchivoyal	Ponneri	Tiruvallur	-	44.855	-	Yes
WUA - 33	Kanganimedu	37.275	Kanganimedu	Ponneri		-	37.275	-	Yes
WUA - 34	Keerapakkam	67.580	Keerapakkam	Ponneri		-	67.58	-	Yes
WUA - 35	Kolur large	268.610	Kolur	Ponneri		-	268.610	-	Yes

WUA - 36	Kolur small	127.480	Kolur	Ponneri		-	127.480	-	Yes
WUA - 37	Kudinelvoyal	62.325	Kudinelvoyal	Ponneri		-	62.325	-	Yes
WUA - 38	Kumaranjeri	66.115	Kumaranjeri	Ponneri		-	66.115	-	Yes
WUA - 39	Kummangalam	96.085	Kummangalam	Ponneri		-	96.085	-	Yes
WUA - 40	Lakshmipuram	28.135	Lakshmipuram	Ponneri		-	28.135	-	Yes
WUA - 41	Manopuram	50.180	Manopuram	Ponneri		-	50.180	-	Yes
WUA - 42	Onbakkam	79.130	Onbakkam	Ponneri		-	79.130	-	Yes
WUA - 43	Panapakkam	99.390	Panapakkam	Ponneri		-	99.390	-	Yes
WUA - 44	Periyaveppathur Large	138.500	Periyaveppathur	Ponneri		-	138.500	-	Yes
WUA - 44	Periyaveppathur Thangal	Joint	Periyaveppathur	Ponneri		-	Joint	-	Yes
WUA - 45	Poovami large	135.540	Poovami	Ponneri		-	135.540	-	Yes
WUA - 45	Poovami small	Joint	Poovami	Ponneri		-	Joint	-	Yes
WUA - 46	Pallipalayam	91.860	Pallipalayam	Ponneri		-	-	-	Yes
WUA - 47	Periyakarambur Hissa	202.665	Periyakarambur	Ponneri		-	202.665	-	Yes
WUA - 47	Priyakarambur small	44.320	Priyakarambur	Ponneri		-	44.320	-	Yes
WUA - 48	Pakkam large	84.985	Pakkam	Ponneri		-	84.985	-	Yes
WUA - 49	Seliyambedu Aleri	71.625	Seliyambedu	Ponneri		-	71.625	-	Yes
WUA - 50	Sirlapakkam large	129.410	Sirlapakkam	Ponneri		-	129.410	-	Yes
WUA - 50	Sirlapakkam small	Joint	Sirlapakkam	Ponneri		-	Joint	-	Yes
WUA - 51	Sitrasur	43.800	Sitrasur	Ponneri		-	43.800	-	Yes
WUA - 52	Segayam large	166.190	Segayam	Ponneri		-	166.190	-	Yes
WUA - 52	Seganyam small	Joint	Seganyam	Ponneri	Tiruvallur	-	Joint	-	Yes
WUA - 53	Tadaperumbakkam Tank	208.410	Tadaperumbakkam	Ponneri		-	208.41	-	Yes
WUA - 54	Thiruppalaivanam	152.625	Thiruppalaivanam	Ponneri		-	152.625	-	Yes
WUA - 55	Uppunelvoyal	118.570	Uppunelvoyal	Ponneri		-	118.57	-	Yes
WUA - 56	Umippedu	88.020	Umippedu	Ponneri		-	88.020	-	Yes
WUA - 57	Vembedu	73.610	Vembedu	Ponneri		-	73.610	-	Yes
WUA - 58	Vidathandalam	65.970	Vidathandalam	Ponneri		-	65.970	-	Yes
WUA - 59	Anuppampattu thangal	234.670	Anuppampattu	Ponneri		-	234.670	-	Yes
WUA - 60	Athreyamangalam	122.600	Athreyamangalam	Ponneri		-	122.600	-	Yes
WUA - 61	Devadanam	273.550	Devadanam	Ponneri		-	273.550	-	Yes

WUA - 62	Elavambedu	262.320	Elavambedu	Ponneri		-	262.320	-	Yes
WUA - 63	Kadapakkam large	81.340	Kadapakkam	Ponneri		-	81.34	-	Yes
WUA - 63	Kadapakkam small	26.055	Kadapakkam	Ponneri		-	26.055	-	Yes
WUA - 64	Pralayambakkam	196.455	Pralayambakkam	Ponneri		-	196.455	-	Yes
WUA - 65	Sirupalaverkadu seepaneri	32.315	Sirupalaverkadu	Ponneri		-	32.315	-	Yes
WUA - 65	Sirupalaverkadu araneri	24.560	Sirupalaverkadu	Ponneri		-	24.560	-	Yes
WUA - 66	Thangalperumbulam	195.735	Thangalperumbulam	Ponneri		-	195.735	-	Yes
WUA - 67	Velur palla eri	53.825	Velur	Ponneri	Tiruvallur	-	53.825	-	Yes
WUA - 67	Velur ammaneri	199.335	Velur	Ponneri		-	199.335	-	Yes
WUA - 68	Vannipakkam large	200.885	Vannipakkam	Ponneri		-	200.885	-	Yes
WUA - 68	Vannipakkam small	200.805	Vannipakkam	Ponneri		-	200.805	-	Yes
WUA - 69	Kanagambakkam	40.500	Kanagambakkam	Ponneri		-	40.500	-	Yes
WUA - 69	Kollur Tank	42.110	Kollur	Ponneri		-	42.110	-	Yes
WUA - 70	Sennavaram Tank	51.685	Sennavaram	Gummudipoondi		-	51.685	-	Yes
WUA - 71	Durainallur	79.630	Durainallur	Ponneri		-	79.630	-	Yes
WUA - 72	Akkarapakkam	174.275	Akkarapakkam	Uthukottai		-	174.275	-	Yes
WUA - 73	Amirthanallur	146.040	Amirthanallur	Uthukottai		-	146.040	-	Yes
WUA - 73	Kadanallur	52.895	Kadanallur	Uthukottai		-	52.895	-	Yes
WUA - 74	Thervali Kuttankulam Thangal& Thervali Thamarai	46.365	Thervali	Gummudipoondi		-	46.365	-	Yes
WUA - 75	82. Panapakkam Chitheri	77.960	82. Panapakkam	Uthukottai		-	77.960	-	Yes
WUA - 75	82. Panapakkam largeTank	176.525	82. Panapakkam	Uthukottai		-	176.525	-	Yes
WUA - 76	Panayancheri	184.305	Panayancheri	Uthukottai		-	184.305	-	Yes
WUA - 77	Rallapadi large	66.785	Rallapadi	Uthukottai		-	66.785	-	Yes
WUA - 78	Velapakkam large	108.820	Velapakkam	Uthukottai		-	108.820	-	Yes
WUA - 79	Ariyapakkam Tank	53.700	Ariyapakkam	Uthukottai		-	53.700	-	Yes
WUA - 80	Alapakkam Tank	74.545	Alapakkam	Uthukottai		-	74.545	-	Yes
WUA - 81	Athupakkam Tank	119.250	Athupakkam	Uthukottai		-	119.250	-	Yes
WUA - 82	Enambakkam Tank	72.480	Enambakkam	Uthukottai		-	72.480	-	Yes
WUA - 83	Kalpattu Tank	92.570	Kalpattu	Uthukottai		-	92.570	-	Yes
WUA - 84	Kannigaipair Tank	559.730	Kannigaipair	Uthukottai		-	559.730	-	Yes
WUA - 85	Malandur Tank	108.085	Malandur	Uthukottai		-	108.085	-	Yes

WUA - 86	Manjankaranai large tank	89.030	Manjankaranai	Uthukottai		-	89.03	-	Yes
WUA - 86	Manjankaranai Small Tank	116.420	Manjankaranai	Uthukottai		-	116.420	-	Yes
WUA - 87	43. Panapakkam Tank	150.250	43. Panapakkam	Uthukottai		-	150.250	-	Yes
WUA - 88	Sennankaranai Tank	125.825	Sennankaranai	Uthukottai		-	125.825	-	Yes
WUA - 89	Vadamadurai Tank	601.000	Vadamadurai	Uthukottai		-	601.000	-	Yes
WUA - 90	Chellamma Kandigai Kanigala Kunda	11.450	Ammambakkam	Uthukottai		-	11.450	-	Yes
WUA - 90	Ammambakkam	16.280	Ammambakkam	Uthukottai		-	16.280	-	Yes
WUA - 90	Ammambakkam Chellamma	40.350	Ammambakkam	Uthukottai		-	40.350	-	Yes
WUA - 90	Seethanjeri	49.820	Seethanjeri	Uthukottai		-	49.820	-	Yes
WUA - 91	Athilivakkam Tank	43.400	Athilivakkam	Uthukottai		-	43.400	-	Yes
WUA - 92	Perumal Odai	Joint	Athilivakkam	Uthukottai		-	Joint	-	Yes
WUA - 92	Avicheri Chitheri	56.235	Avicheri	Uthukottai		-	56.235	-	Yes
WUA - 92	Pudhucheri Tank	96.085	Pudhucheri	Uthukottai		-	96.085	-	Yes
WUA - 93	Gunipalayam Peddha Cheruvu	45.585	Gunipalayam	Uthukottai		-	45.585	-	Yes
WUA - 93	Gunipalayam East	52.170	Gunipalayam	Uthukottai		-	52.170	-	Yes
WUA - 94	Kalavai Tank	61.490	Kalavai	Uthukottai		-	61.490	-	Yes
WUA - 95	Katchur Natteri	391.855	Katchur	Uthukottai		-	391.855	-	Yes
WUA - 95	Pondavakkam Mukkani Thangal	Joint	Pondavakkam	Uthukottai		-	Joint	-	Yes
WUA - 96	Mamandur Kottavakkam Tank	36.610	Mamandur Kottavakkam	Uthukottai		-	36.610	-	Yes
WUA - 97	Mambakkam Tank	204.885	Mambakkam	Uthukottai		-	204.885	-	Yes
WUA - 98	Pennalurpettai Chinna Cheruvu	79.685	Pennalurpettai	Uthukottai		-	79.685	-	Yes
WUA - 99	Pennalurpettai Big	127.415	Pennalurpettai	Uthukottai		-	127.415	-	Yes
WUA - 100	Peritivakkam Large & Small Tank	44.415	Peritivakkam	Uthukottai		-	44.415	-	Yes
WUA - 101	Vazhudalambedu Large & Small	83.185	Vazhudalambedu	Gummudipoondi		-	83.185	-	Yes
WUA - 102	Kannalur Pudhu Eri	67.815	Kannalur	Gummudipoondi		-	67.815	-	Yes
WUA - 103	Srinivasapuram Kasthuri Naidukunda	4.960	Srinivasapuram	Uthukottai		-	4.960	-	Yes

Tiruvallur

uv all

WUA - 104	Srinivasapuram Putheri	17.610	Srinivasapuram	Uthukottai		-	17.610	-	Yes
WUA - 104	Velekapuram Big Tank	124.770	Velekapuram	Uthukottai		-	124.770	-	Yes
WUA - 105	Velekapuram Nagaleri	81.975	Velekapuram	Uthukottai		-	81.975	-	Yes
WUA - 106	Karani	74.070	Karani	Gummudipoondi		-	74.070	-	Yes
WUA - 107	Mangalam	42.550	Mangalam	Gummudipoondi		-	42.550	-	Yes
WUA - 108	Nelvoy	144.675	Nelvoy	Gummudipoondi		-	144.675	-	Yes
WUA - 109	Paleswaram	67.295	Paleswaram	Gummudipoondi		-	67.295	-	Yes
WUA - 110	Serpedu	85.390	Serpedu	Gummudipoondi		-	85.390	-	Yes
WUA - 111	Athupakkam Large	175.955	Athupakkam	Gummudipoondi		-	175.955	-	Yes
WUA - 111	Athupakkam Kannaputheri	Joint	Athupakkam	Gummudipoondi		-	Joint	-	Yes
WUA - 112	A.N. Kuppam Tank	133.435	A.N. Kuppam	Gummudipoondi		-	133.435	-	Yes
WUA - 113	Ayyanallur Large&small	258.905	Ayyanallur	Gummudipoondi		-	258.905	-	Yes
WUA - 114	Chinnacholiambakkam Ochan Thangal	83.585	Chinnacholiambakkam	Gummudipoondi		-	83.585	-	Yes
WUA - 115	Erukkuvoy Tank	764.665	Erukkuvoy	Gummudipoondi		-	764.665	-	Yes
WUA - 116	Gummidipoondi Perumanjaneri	80.450	Gummidipoondi	Gummudipoondi		-	80.450	-	Yes
WUA - 116	Gummidipoondi Hissa	501.220	Gummidipoondi	Gummudipoondi		-	501.220	-	Yes
WUA - 117	Kuruviagaram Tank	272.660	Kuruviagaram	Gummudipoondi		-	272.660	-	Yes
WUA - 118	Melakalani Hissa	198.515	Melakalani	Gummudipoondi		-	198.515	-	Yes
WUA - 119	Melmudalambedu	203.000	Melmudalambedu	Gummudipoondi			203.00	-	Yes
WUA - 120	Palavakkam tank	195.750	Palavakkam	Gummudipoondi			195.75	-	Yes
WUA - 121	Palaya Gummidipoondi Thamarai	Joint	Palaya Gummidipoondi	Gummudipoondi		-	Joint	-	Yes
		WUA already Formed							
	System Tanks								
WUA - 122	Andavoyal	49.475	Andavoyal	Ponneri		49.475	-	Yes	-
WUA - 123	Arasur	91.315	Arasur	Ponneri		91.315	-	Yes	-
WUA -124	Medur large	811.820	Medur	Ponneri		811.820	-	Yes	-
WUA -124	Medur krishnan thangal	Joint	Medur	Ponneri		Joint	-	Yes	-
WUA - 125	Avur large	283.290	Avur	Ponneri		283.290	-	Yes	-
WUA - 125	Avur chitheri	30.760	Avur	Ponneri		30.760	-	Yes	-
WUA -126	Vanjivakkam large & Small	224.170	Vanjivakkam	Ponneri		224.170	-	Yes	-

WUA -127	Kilikodi Tank	204.980	Kilikodi	Gummudipoondi	Tiruvallur	204.980	-	Yes	-
WUA - 128	Kilmudalambedu	210.065	Kilmudalambedu	Gummudipoondi		210.065	-	Yes	-
WUA - 129	Panpakkam Large	139.810	Panpakkam	Gummudipoondi		139.810	-	Yes	-
WUA -129	Panpakkam Small	45.000	Panpakkam	Gummudipoondi		45.000	-	Yes	-
WUA -130	Peruvoyal Tank	123.000	Peruvoyal	Gummudipoondi		123.000	-	Yes	-
WUA - 130	Peruvoyal Putheri	66.070	Peruvoyal	Gummudipoondi		66.070	-	Yes	-
WUA - 131	Paranambedu Tank	98.230	Paranambedu	Gummudipoondi		98.230	-	Yes	-
WUA -132	Sombattu Tank	463.385	Sombattu	Ponneri		463.385	-	Yes	-
WUA -133	Asanabudur	99.790	Asanabudur	Ponneri		99.790	-	Yes	-
WUA - 134	Eliambedu	97.055	Eliambedu	Ponneri		97.055	-	Yes	-
WUA - 135	Guduvanjeri hissa	136.630	Guduvanjeri	Ponneri		136.630	-	Yes	-
WUA -136	Kattavur Hissa Tank	314.850	Kattavur	Ponneri		314.850	-	Yes	-
WUA -137	Appalavaram	53.125	Appalavaram	Ponneri		53.125	-	Yes	-
						3700.225			**18618.89**

ABSTRACT

1	Command Area already covered under WRCP and other Project / Schemes	3700.225 Hectares
2	Command Area proposed to be covered under IAMWARM Project	18618.89 Hectares
3	Total command area controlled by WRO of PWD in the Sub Basin	22319.115 Hectares
4	Total No. of WUAs already formed under WRCP	16 Nos
5	Total No. of WUAs proposed to be formed under IAMWARM	121 Nos.
6	Total No. of WUAs that will cover the entire Sub-Basin	137 Nos.

Annexure: 2

Details of " Awareness Creation Activities and Walk - Through Surveys"

Sl. No.	Date of visit	Names of the villages visited	Awareness Programme (No. of farmers attended) (prepare the list of Farmers with Acknowledgement seperately and attach)	Walk through survey (No. of Farmers participated) (prepare the list of Farmers with Acknowledgement seperately and attach)	Remarks
1	29.10.2008	Gunipalayam, Ammabakkam, Sithanjeri,	24	15	
2	30.10.2008	Mambakkam, Mamandur kottivakkam, Athilivakkam, Kalavai.	42	24	
3	31.10.2008	Katchoor,Perunjeri, Pondavakkam, Pennalurpettai, Srinivasapuram.	54	30	
4	01.11.2008	Puducheri, Avicheri, Peritivakkam, Velagapuram.	48	26	
5	04.11.2008	Manjankaranai, Annathana kakavakkam, Kannigaipair, Alapakkam, 82. Panapakkam, Velapakkam,	45	28	
6	05.11.2008	Maladur, Kalpattu, Enambakkam, Vengal, Vadamadurai, Erumainaickan kuppam, Kakavakkam.	103	58	
7	06.11.2008	43. Panapakkam, Sennankaranai, Latchivakkam, Perandur, Palavakkam, Uthukkottai.	43	24	
8	07.11.2008	Athupakkam, Ariyapakkam, Soolaimeni, Sengarai, sengiagaram.	88	49	
9	07.11.2008	Chinnambedu, Arani, Kilmeni, Vadakkunallur, Durainallur.	35	18	
10	08.11.2008	Pondavakkam, Peravallur, Perunjeri, Vairavan kuppam, Bandikavanur.	60	34	
11	12.11.2008	Akkarapakkam, Thiunilai, Amirthanallur, Kadanallur, Panayancheri, Rallapady, Maduravasal.	138	74	

12	13.11.2008	Nelvoy, Mangalam, serppedu, Paleswaram, Karadiputhur, Mukkarampakkam, Karani, Puduvoyal.	106	55	
13	06.11.2008	Peruvoyal, Keelmudalambedu, Melmudalambedu, A. N. Kuppam, Palavakkam, Erukkuvoy.	90	52	
14	07.11.2008	Panbakkam, Gummudipoondi, Enathimelpakkam.	52	30	
15	08.11.2008	Ayyanallur, Kuruviagaram, Rettambedu, Vadzhuthigaimedu.	55	29	
16	11.11.2008	Athupakkam, Melakalani, Sennavaram, Natham, Thervali.	62	36	
17	12.11.2008	Paranambedu, Kilikadi, sompattu, Kollanur, Kanagambakkam, Kollur.	78	45	
18	04.11.2008	Kummanglam, Thadaperumpakkam, Aladu, Kumara sirlapakkam.	78	42	
19	05.11.2008	Eliambedu, Kattavur, Arasur, Apaalavaram, Andavoyal, Sitrasur.	112	64	
20	06.11.2008	Medur, Vidathandalam, Vembedu, Avur, Ilupakkam, Panapakkam, Kumarajeri, Periyakarambur.	117	68	
21	07.11.2008	Erisivan, Lakshmipuram, Perumbedu, Kolur, Uppunelvoyal.	137	79	
22	10.11.2008	Guduvanjeri, Sirlapakkam, Thiruppalaivanam, Onbakkam, Kanchivoyal, Pakkam, Avurivakkam, Puvami, Periyaveppathur.	167	98	
23	11.11.2008	Kudinelvoyal, Seliambedu, Pallipalayam,. Keerapakkam, Kanganimedu, Seganyam, Umippedu, Annamalaicheri.	142	78	
24	04.11.2008	Minjur, Merattur, Vellambakkam, Thotakadu, Neidavoyal, Kalpakkam.	62	36	
25	05.11.2008	Sirupalaverkadu, Kadapakkam, Pralyambakkam, Thagaperunbulam.	78	44	

26	06.11.2008	Vanjivakkam, Thathamanji, Kattur, Voyalur, Thiuvellavoyal, Velur,	119	69	
27	07.11.2008	Elavambedu, Vannipakkam, Anuppampattu, Athipattu.	113	70	
28	12.11.2008	Athreyamagalam, Devadanam, Nalur.	46	25	

Annexure - 03

Details of Modernisation works as suggested by the Farmers and as finalaised by the officials of WRO

Sl. No.	Date of visit	Name of the villages visited	Outcome of walk through survey and discussions with farmers	
			Works suggested by Farmers	Works finalaised by
1	29.10.2008	Gunipalayam, Ammabakkam, Sithanjeri,	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.
2	30.10.2008	Mambakkam, Mamandur kottivakkam, Athilivakkam, Kalavai.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.

3	31.10.2008	Katchoor,Perunjeri, Pondavakkam, Pennalurpettai, Srinivasapuram.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.
4	01.11.2008	Puducheri, Avicheri, Peritivakkam, Velagapuram.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.

5	04.11.2008	Manjankaranai, Annathana kakavakkam, Kannigaipair, Alapakkam, 82. Panapakkam, Velapakkam,	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.
6	05.11.2008	Maladur, Kalpattu, Enambakkam, Vengal, Vadamadurai, Erumainaickan kuppam, Kakavakkam.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.

7	06.11.2008	43. Panapakkam, Sennankaranai, Latchivakkam, Perandur, Palavakkam, Uthukkottai.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.
8	07.11.2008	Athupakkam, Ariyapakkam, Soolaimeni, Sengarai, sengiagaram.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.

9	07.11.2008	Chinnambedu, Arani, Kilmeni, Vadakkunallur, Durainallur.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets, Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) and storage go downs are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.
10	08.11.2008	Pondavakkam, Peravallur, Perunjeri, Vairavan kuppam, Bandikavanur.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.

11	12.11.2008	Akkarapakkam, Thiunilai, Amirthanallur, Kadanallur, Panayancheri, Rallapady, Maduravasal.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Panayanchery inlet and Akkarapakkam weir to be reconstructed,Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.
12	13.11.2008	Nelvoy, Mangalam, serppedu, Paleswaram, Karadiputhur, Mukkarampakkam, Karani, Puduvoyal.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.

13	06.11.2008	Peruvoyal, Keelmudalambedu, Melmudalambedu, A. N. Kuppam, Palavakkam, Erukkuvoy.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.
14	07.11.2008	Panbakkam, Gummudipoondi, Enathimelpakkam.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.

15	08.11.2008	Ayyanallur, Kuruviagaram, Rettambedu, Vadzhuthigaimedu.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.
16	11.11.2008	Athupakkam, Melakalani, Sennavaram, Natham, Thervali.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.

17	12.11.2008	Paranambedu, Kilikadi, sompattu, Kollanur, Kanagambakkam, Kollur.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.
18	04.11.2008	Kummanglam, Thadaperumpakkam, Aladu, Kumara sirlapakkam.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Retaining wall to be extended, Shutters are to be provided for the outlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.

19	05.11.2008	Eliambedu, Kattavur, Arasur, Apaalavaram, Andavoyal, Sitrasur.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Retaining wall to be extended, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) and storage go downs are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.
20	06.11.2008	Medur, Vidathandalam, Vembedu, Avur, Ilupakkam, Panapakkam, Kumarajeri, Periyakarambur.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices, weirs and inlets are to be repaired / reconstructed, supply and surplus channels are to be desilted, Retaining wall to be extended, Shutters are to be provided for the outlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) and storage go downs are to be provided and Vetinary hospitals are to be provided, Agri. officer required to explain about the subsidaries, schemes and fertilisers.	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.

21	07.11.2008	Erisivan, Lakshmipuram, Perumbedu, Kolur, Uppunelvoyal.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.
22	10.11.2008	Guduvanjeri, Sirlapakkam, Thiruppalaivanam, Onbakkam, Kanchivoyal, Pakkam, Avurivakkam, Puvami, Periyaveppathur.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided and check dams are to be provided across the surplus the courses.	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.

23	11.11.2008	Kudinelvoyal, Seliambedu, Pallipalayam,. Keerapakkam, Kanganimedu, Seganyam, Umippedu, Annamaluaicheri.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.
24	04.11.2008	Minjur, Merattur, Vellambakkam, Thotakadu, Neidavoyal, Kalpakkam.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.

25	05.11.2008	Sirupalaverkadu, Kadapakkam, Pralyambakkam, Thagaperunbulam.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.
26	06.11.2008	Vanjivakkam, Thathamanji, Kattur, Voyalur, Thiuvellavoyal, Velur,	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.

27	07.11.2008	Elavambedu, Vannipakkam, Anuppampattu, Athipattu.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.
28	12.11.2008	Athreyamagalam, Devadanam, Nalur.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	Instead of Complete desilting only strengthening the tank bund to the standards proposed. Lining the field channel has not proposed. Except the above all other works suggested by farmers are included and finalised.

Statement with details of date of walk through survey, location, farmers request, technical solution, proposed in the plan

Enclosed in Annexure(In separate Excel File)

Annexure

Statement with details of date of walk through survey, location, farmers request, technical solution, proposed in the plan

Sl. No	Walk Through Survey		Farmers request	Tachnical Solution	Proposed in the plan
	Date	Location			
1	2	3	4	5	6
	29.10.2008	Gunipalayam, Ammabakkam, Sithanjeri,	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	**WRO:** Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir, inlet & Culverts and Demarcation for all tanks	**WRO:** Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables

				Horticulture: **A**rea expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** **A**rea expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Agri Mktg: One training programme proposed for WUA @ Rs. 0.50 lakhs	**Agri Mktg:** One training programme proposed for WUA @ Rs. 0.50 lakhs
				Agricuture:	**Agricuture:**
				Fisheries:NIL	**Fisheries:NIL**
				AH: Veterinary dispensary, animal insurance, grazing lands into fodder plots.	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.
2	30.10.2008	Mambakkam, Mamandur kottivakkam, Athilivakkam, Kalavai.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables

				Horticulture: **A**rea expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** **A**rea expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Agri Mktg: One storage godown to be constructed @ Rs.4.00 lakhs	**Agri Mktg:** One storage godown to be constructed @ Rs.4.00 lakhs
				Agricuture:	**Agricuture:**
				Fisheries:Farm ponds.	**Fisheries**:Farm ponds.
				AH: Veterinary dispensary, animal insurance, grazing lands into fodder plots.	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.
3	31.10.2008	Katchoor,Perunjeri, Pondavakkam, Pennalurpettai, Srinivasapuram.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables

				Horticulture: **A**rea expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** **A**rea expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Agri Mktg: NIL	**Agri Mktg: NIL**
				Agricuture:	**Agricuture:**
				Fisheries: Fish seed rearing in cages	**Fisheries:** Fish seed rearing in cages
				AH: Live stock loans	**AH:** Health camp infertility camps
4	01.11.2008	Puducheri, Avicheri, Peritivakkam, Velagapuram.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables
				Horticulture: **A**rea expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** **A**rea expansion under horticultural crops such as Vegetables, Fruits, and Flowers .

				Agri Mktg: One exposure visit proposed @ Rs. 1.00 lakh	**Agri Mktg:** One exposure visit proposed @ Rs. 1.00 lakh
				Agricuture:	**Agricuture:**
				Fisheries: Farm ponds, Aquaculture in irrigation tank.	**Fisheries:** Farm ponds, Aquaculture in irrigation tank.
				AH: Conversion of grazing lands into fodder plots.	**AH:** Fedder plots in ayacut areas only. Azola demo plots
5	04.11.2008	Manjankaranai, Annathana kakavakkam, Kannigaipair, Alapakkam, 82. Panapakkam, Velapakkam,	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables
				Horticulture: **A**rea expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** **A**rea expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Agri Mktg: NIL	**Agri Mktg:** NIL

				Agricuture:	**Agricuture:**
				Fisheries:	**Fisheries:** Seed rearing in cages.
				AH: Veterniary dispensary, Animal insurance	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.
6	05.11.2008	Maladur, Kalpattu, Enambakkam, Vengal, Vadamadurai, Erumainaickan kuppam, Kakavakkam.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables
				Horticulture: Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Agri Mktg: NIL	**Agri Mktg:** NIL
				Agricuture:	**Agricuture:**
				Fisheries: Seed rearing in cages.	**Fisheries:** Seed rearing in cages.

				AH: Veterniary dispensary, Animal insurance	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.
7	06.11.2008	43. Panapakkam, Sennankaranai , Latchivakkam, Perandur, Palavakkam, Uthukkottai.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables
				Horticulture: Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Agri Mktg: NIL	**Agri Mktg:** NIL
				Agricuture:	**Agricuture:**
				Fisheries: Farm ponds. Aquaculture in irrigation tank.	**Fisheries:** Farm ponds. Aquaculture in irrigation tank.

				AH: Live stock loans insurance	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.
8	07.11.2008	Athupakkam, Ariyapakkam, Soolaimeni, Sengarai, sengiagaram.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables
				Horticulture: Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Agri Mktg: Commodity group training one @ Rs.0.50 lakhs, Cluster level training @ Rs. 1.00 lakh	**Agri Mktg:** Commodity group training one @ Rs.0.50 lakhs, Cluster level training @ Rs. 1.00 lakh
				Agricuture:	**Agricuture:**
				Fisheries: Aquaculture in irrigation tank.	**Fisheries:** Aquaculture in irrigation tank.

				AH: Veterinary dispensary, animal insurance, grazing lands into fodder plots.	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.
9	07.11.2008	Chinnambedu, Arani, Kilmeni, Vadakkunallur, Durainallur.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets, Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) and storage go downs are to be provided and Vetinary hospitals are to be provided	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables
				Horticulture: Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Agri Mktg: NIL	**Agri Mktg:** NIL
				Agricuture:	**Agricuture:**
				Fisheries: NIL	**Fisheries:** NIL

				AH: Veterinary dispensary, animal insurance, grazing lands into fodder plots.	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.
10	08.11.2008	Pondavakkam, Peravallur, Perunjeri, Vairavan kuppam, Bandikavanur.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables
				Horticulture: Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Agri Mktg: One exposure visit proposed @ Rs. 1.00 lakh	**Agri Mktg:** One exposure visit proposed @ Rs. 1.00 lakh
				Agricuture:	**Agricuture:**
				Fisheries: Aquaculture in irrigation tank. Farm ponds.	**Fisheries:** Aquaculture in irrigation tank. Farm ponds.

				AH: Veterinary dispensary, animal insurance, grazing lands into fodder plots.	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.
11	12.11.2008	Akkarapakkam, Thiunilai, Amirthanallur, Kadanallur, Panayancheri, Rallapady, Maduravasal.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Panayanchery inlet and Akkarapakkam weir to be reconstructed,Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables
				Horticulture: Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Agri Mktg: NIL	**Agri Mktg:** NIL
				Agricuture:	**Agricuture:**
				Fisheries: NIL	**Fisheries:** NIL

				AH: Veterinary dispensary, animal insurance, grazing lands into fodder plots.	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.
12	13.11.2008	Nelvoy, Mangalam, serppedu, Paleswaram, Karadiputhur, Mukkarampakkam, Karani, Puduvoyal.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables
				Horticulture: Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Agri Mktg: NIL	**Agri Mktg:** NIL
				Agricuture:	**Agricuture:**
				Fisheries: NIL	**Fisheries:** NIL
				AH: Veterinary dispensary, animal insurance, grazing lands into fodder plots.	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.

13	06.11.2008	Peruvoyal, Keelmudalambedu, Melmudalambedu, A. N. Kuppam, Palavakkam, Erukkuvoy.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables
				Horticulture: Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Agri Mktg: NIL	**Agri Mktg:** NIL
				Agricuture:	**Agricuture:**
				Fisheries: Aquaculture in irrigation tank. Form Ponds. - 1	**Fisheries:** Aquaculture in irrigation tank. Form Ponds. - 2
				AH: Veterinary dispensary, animal insurance, grazing lands into fodder plots.	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.

14	07.11.2008	Panbakkam, Gummudipoondi, Enathimelpakkam.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables
				Horticulture: Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Agri Mktg: One cluster level training @ Rs. 1.00 lakh	**Agri Mktg:** One cluster level training @ Rs. 1.00 lakh
				Agricuture:	**Agricuture:**
				Fisheries: Aquaculture in irrigation tanks.	**Fisheries:** Aquaculture in irrigation tanks.
				AH: Veterinary dispensary, animal insurance, grazing lands into fodder plots.	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.

15	08.11.2008	Ayyanallur, Kuruviagaram, Rettambedu, Vadzhuthigaimedu.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables
				Agri Mktg: NIL	**Agri Mktg:** NIL
				Horticulture: Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Agricuture:	**Agricuture:**
				Fisheries: Fish seed rearing in cages.	**Fisheries:** Fish seed rearing in cages.
				AH: Veterinary dispensary, animal insurance, grazing lands into fodder plots.	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.

16	11.11.2008	Athupakkam, Melakalani, Sennavaram, Natham, Thervali.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables
				Agri Mktg: Constructing one collection centre @ Rs.3.00 lakhs	**Agri Mktg**: Constructing one collection centre @ Rs.3.00 lakhs
				Fisheries: NIL	**Fisheries:** NIL
				Agricuture:	**Agricuture:**
				Horticulture: Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				AH: Veterinary dispensary, animal insurance, grazing lands into fodder plots.	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.

17	12.11.2008	Paranambedu, Kilikadi, sompattu, Kollanur, Kanagambakkam, Kollur.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				Horticulture: Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Agricuture:	**Agricuture:**
				Agri Mktg: NIL	**Agri Mktg:** NIL
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables
				Fisheries: Farm ponds. Aquaculture in irrigation tank.	**Fisheries:** Farm ponds. Aquaculture in irrigation tank.
				AH: Veterinary dispensary, animal insurance, grazing lands into fodder plots.	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.

18	04.11.2008	Kummanglam, Thadaperumpakkam, Aladu, Kumara sirlapakkam.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Retaining wall to be extended, Shutters are to be provided for the outlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				AH: Veterinary dispensary, animal insurance, grazing lands into fodder plots.	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				Agricuture:	**Agricuture:**
				Horticulture: Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Agri Mktg: NIL	**Agri Mktg:** NIL
				Fisheries: NIL	**Fisheries:** NIL
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables

19	05.11.2008	Eliambedu, Kattavur, Arasur, Apaalavaram, Andavoyal, Sitrasur.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Retaining wall to be extended, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) and storage go downs are to be provided and Vetinary hospitals are to be provided	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				Agricuture:	**Agricuture:**
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables
				Horticulture: Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Agri Mktg: NIL	**Agri Mktg:** NIL
				Fisheries: Farm ponds.	**Fisheries:** Farm ponds.
				AH: Veterinary dispensary, animal insurance, grazing lands into fodder plots.	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.

20	06.11.2008	Medur, Vidathandalam , Vembedu, Avur, Ilupakkam, Panapakkam, Kumarajeri, Periyakarambu r.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices, weirs and inlets are to be repaired / reconstructed, supply and surplus channels are to be desilted, Retaining wall to be extended, Shutters are to be provided for the outlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) and storage go downs are to be provided and Vetinary hospitals are to be provided, Agri. officer required to explain about the subsidaries, schemes and fertilisers.	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				Agricuture:	**Agricuture:**
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables
				Horticulture: Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Agri Mktg: NIL	**Agri Mktg:** NIL
				Fisheries: Farm ponds.	**Fisheries:** Farm ponds.
				AH: Veterinary dispensary, animal insurance, grazing lands into fodder plots.	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.

21	07.11.2008	Erisivan, Lakshmipuram, Perumbedu, Kolur, Uppunelvoyal.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				Agricuture:	**Agricuture:**
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables
				Horticulture: Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Agri Mktg: NIL	**Agri Mktg:** NIL
				Fisheries: Aquaculture in irrigation tank. Farm ponds.	**Fisheries:** Aquaculture in irrigation tank. Farm ponds.
				AH: Veterinary dispensary, animal insurance, grazing lands into fodder plots.	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.

22	10.11.2008	Guduvanjeri, Sirlapakkam, Thiruppalaivanam, Onbakkam, Kanchivoyal, Pakkam, Avurivakkam, Puvami, Periyaveppathur.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided and check dams are to be provided across the surplus the courses.	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				Agricuture:	**Agricuture:**
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables
				Horticulture: Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Fisheries: Farm ponds 2 Nos.	**Fisheries:** Farm ponds 2 Nos.
				Agri Mktg: NIL	**Agri Mktg:** NIL
				AH: Veterinary dispensary, animal insurance, grazing lands into fodder plots.	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.

23	11.11.2008	Kudinelvoyal, Seliambedu, Pallipalayam,. Keerapakkam, Kanganimedu, Seganyam, Umippedu, Annamaluaicheri.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				Agricuture:	**Agricuture:**
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables
				Horticulture: Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Agri Mktg: NIL	**Agri Mktg:** NIL
				Fisheries: Farm ponds 2 Nos.	**Fisheries:** Farm ponds 2 Nos.
				AH: Veterinary dispensary, animal insurance, grazing lands into fodder plots.	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.

24	05.11.2008	Sirupalaverkadu, Kadapakkam, Pralyambakkam, Thagaperunbulam.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				Agricuture:	**Agricuture:**
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables
				Horticulture: Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Agri Mktg: NIL	**Agri Mktg:** NIL
				Fisheries: NIL	**Fisheries:** NIL
				AH: Veterinary dispensary, animal insurance, grazing lands into fodder plots.	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.

25	06.11.2008	Vanjivakkam, Thathamanji, Kattur, Voyalur, Thiuvellavoyal, Velur,	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				Agricuture:	**Agricuture:**
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables
				Horticulture: Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Agri Mktg: NIL	**Agri Mktg:** NIL
				Fisheries: Farm ponds	**Fisheries:** Farm ponds
				AH: Veterinary dispensary, animal insurance, grazing lands into fodder plots.	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.

26	07.11.2008	Elavambedu, Vannipakkam, Anuppampattu, Athipattu.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				Agricuture:	**Agricuture:**
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables
				Horticulture: Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Agri Mktg: NIL	**Agri Mktg:** NIL
				Fisheries: NIL	**Fisheries:** NIL
				AH: Veterinary dispensary, animal insurance, grazing lands into fodder plots.	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.

27	12.11.2008	Athreyamagalam, Devadanam, Nalur.	Scrub jungles are to be cleared, tank to be Desilted and bund to be strengthened, Damaged sluices and weirs are to be repaired / reconstructed, supply and surplus channels are to be desilted, Shutters are to be provided for the inlets Field channels are to be linned, encroachments in the WSA are to be evicted and demarcated, Social Bore wells are to be errected, All the mordern agricultural machineries & equipments are to be provided, Ground water recharge ponds (agriculture ponds) are to be provided and Vetinary hospitals are to be provided	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet &Culverts and Demarcation for all tanks	**WRO**: Sterengthening Tank bund,desilting supply channel ,Repair or reconstruction of sluice & weir,inlet & Culverts and Demarcation for all tanks
				Agri Engg: 1.) Providing required modern agricultural machineries and equiptment for mechanised farming. 2.)Provision of farm ponds with fish culture for in come generation activities. 3.) Awareness creation through training and exposure visit for adoption of improved water saving irrigation methord using micro irrigation so as to increase the productivity and to gain more income.	**Agri Engg:** Providing morden agricultural mechineries, drip and sprinkler irrigation and training components.
				Agricuture:	**Agricuture:**
				TNAU : SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables	**TNAU :** SRI in Paddy,Pulses after Rice in the residual soil moisture,Creation of awareness about Improved Production Technology through Training,Precision Farming in Sugarcane, Banana &Vegetables
				Horticulture: Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .	**Horticulture:** Area expansion under horticultural crops such as Vegetables, Fruits, and Flowers .
				Agri Mktg: NIL	**Agri Mktg:** NIL
				Fisheries: NIL	**Fisheries:** NIL
				AH: Veterinary dispensary, animal insurance, grazing lands into fodder plots.	**AH:** Fodder plots in ayacut areas only, azola demo,infertility camps, supply of minerl mixture, awareness to farmers.

DETAILS OF WUAS PROPOSED IN ARANIYAR SUB BASIN

WUA NO	TANK AND VILLAGES IT COVERS	NAME OF WUA	AYACUT IN Ha
	SYSTEM TANKS		
WUA - 1	Kakkavakkam Hissa	Kakkavakkam Hissa Tank Water Users Association	540.955
WUA - 2	Latchivakkam	Latchivakkam Tank Water Users Association	171.940
WUA - 3	Palavakkam Hissa	Palavakkam Hissa, Sirunai Errakulam and Palavakkam Kuppam Thangal water users Association	103.055
WUA - 4	Perandur	Perandur Tank Water Users Association	268.390
WUA - 5	Sengarai Hissa	Sengarai Hissa , Ammaneri , Ayyaneri and Soolaimeni tanks water users Association	321.850
WUA - 6	Senjiagaram	Senjiagaram , Odai Thangal and Singilikuppam water users Association	136.770
WUA - 7	Rettambedu	Rettambedu Tank Water Users Association	215.155
WUA - 8	Uthukottai Hissa	Uthukottai Hissa Tank Water Users Association	342.290
WUA - 9	Mukkarambakkam	Mukkarambakkam Tank Water Users Association	171.040
WUA -10	Enathimelpakkam	Enathimelpakkam Tank Water Users Association	153.650
WUA -11	Kumarasirlapakkam	Kumarasirlapakkam Tank Water Users Association	129.400

WUA -12	**Perumbedu**	**Perumbedu Tank Water Users Association**	**318.440**
	NON SYSTEM TANKS		
WUA -13	**Arani**	**Arani Tank Water Users Association**	**245.630**
WUA-14	**Bandikavanur large&small**	**Bandikavanur large and small tanks water user Association**	**113.595**
WUA-15	**Chinnambedu large**	**Chinnambedu large Tank Water Users Association**	**670.620**
WUA-16	**Chinnambedu small**	**Chinnambedu small Tank Water Users Association**	**46.140**
WUA-17	**Kilmeni**	**Kilmeni Tank Water Users Association**	**79.005**
WUA -18	**Peravallur**	**Peravallur Tank Water Users Association**	**80.130**
WUA -19	**Perunchery**	**Perunchery Tank Water Users Association**	**73.375**
WUA -20	**Pondavakkam pudu**	**Pondavakkam pudu Tank Water Users Association**	**50.590**
WUA -21	**Vadakkunallur**	**Vadakkunallur Tank Water Users Association**	**81.655**
WUA -22	**Vairavankuppam**	**Vairavankuppam Tank Water Users Association**	**18.240**
WUA -23	**Maduravasal**	**Maduravasal Tank Water Users Association**	**196.525**
WUA -24	**Tirunilai**	**Tirunilai Tank Water Users Association**	**93.635**

WUA -25	**Puduvoyal**	**Puduvoyal Tank Water Users Association**	**145.345**
WUA -26	**Annamalaicheri large**	**Annamalaicheri Large and small tank water users Association**	**121.375**
WUA -27	**Avurivakkam**	**Avurivakkam Tank Water Users Association**	**39.025**
WUA -28	**Aladu**	**Aladu Tank and Periya Thangal water users Association**	**175.630**
WUA -29	**Erisivan**	**Erisivan Tank Water Users Association**	**39.620**
WUA -30	**Ilupakkam**	**Ilupakkam Tank Water Users Association**	**96.380**
WUA -31	**Kallur**	**Kallur Tank Water Users Association**	**182.510**
WUA -32	**Kanchivoyal**	**Kanchivoyal Tank Water Users Association**	**44.855**
WUA -33	**Kanganimedu**	**Kanganimedu Tank Water Users Association**	**37.275**
WUA -34	**Keerapakkam**	**Keerapakkam Tank Water Users Association**	**67.580**
WUA -35	**Kolur large**	**Kolur large Tank Water Users Association**	**268.610**
WUA -36	**Kolur small**	**Kolur small Tank Water Users Association**	**127.480**
WUA -37	**Kudinelvoyal**	**Kudinelvoyal Tank Water Users Association**	**62.325**
WUA -38	**Kumaranjeri**	**Kumaranjeri Tank Water Users Association**	**66.115**

WUA -39	**Kummangalam**	**Kummangalam Tank Water Users Association**	**96.085**
WUA -40	**Lakshmipuram**	**Lakshmipuram Tank Water Users Association**	**28.135**
WUA -41	**Manopuram**	**Manopuram Tank Water Users Association**	**50.180**
WUA -42	**Onbakkam**	**Onbakkam Tank Water Users Association**	**79.130**
WUA -43	**Panapakkam**	**Panapakkam Tank Water Users Association**	**99.390**
WUA -44	**Periyaveppathur Large&small**	**Periyaveppathur Tank and Thangal water users Association**	**138.500**
WUA -45	**Poovami large&small**	**Poovami large and small Tanks water users Association**	**135.540**
WUA -46	**Pallipalayam**	**Pallipalayam Tank Water Users Association**	**91.860**
WUA -47	**Periyakarambur Hissa**	**Periyakarambur Hissa and small Tanks water users Association**	**246.985**
WUA -48	**Pakkam large**	**Pakkam large Tank Water Users Association**	**84.985**
WUA -49	**Seliyambedu Aleri**	**Seliyambedu Aleri Tank Water Users Association**	**71.625**
WUA -50	**Sirlapakkam large**	**Sirlapakkam large and small Tanks water users Association**	**129.410**
WUA -51	**Sitrasur**	**Sitrasur Tank Water Users Association**	**43.800**
WUA -52	**Segayam large&small**	**Segayam large and small Tanks water users Association**	**166.190**

WUA -53	**Tadaperumbakkam Tank**	**Tadaperumbakkam Tank Tank Water Users Association**	**208.410**
WUA -54	**Thiruppalaivanam**	**Thiruppalaivanam Tank Water Users Association**	**152.625**
WUA -55	**Uppunelvoyal**	**Uppunelvoyal Tank Water Users Association**	**118.570**
WUA -56	**Umippedu**	**Umippedu Tank Water Users Association**	**88.020**
WUA -57	**Vembedu**	**Vembedu Tank Water Users Association**	**73.610**
WUA -58	**Vidathandalam**	**Vidathandalam Tank Water Users Association**	**65.970**
WUA -59	**Anuppampattu thangal**	**Anuppampattu thangal Tank Water Users Association**	**234.670**
WUA -60	**Athreyamangalam**	**Athreyamangalam Tank Water Users Association**	**122.600**
WUA -61	**Devadanam**	**Devadanam Tank Water Users Association**	**273.550**
WUA -62	**Elavambedu**	**Elavambedu Tank Water Users Association**	**262.320**
WUA -63	**Kadapakkam large&small**	**Kadapakkam large&small Tank Water Users Association**	**107.395**
WUA -64	**Pralayambakkam**	**Pralayambakkam Tank Water Users Association**	**196.455**
WUA -65	**Sirupalaverkadu seepaneri**	**Sirupalaverkadu seepaneri Tank Water Users Association**	**56.875**
WUA -66	**Thangalperumbulam**	**Thangalperumbulam Tank Water Users Association**	**195.735**

WUA -67	**Velur palla er& Ammanerii**	**Velur palla er& Ammanerii Tank Water Users Association**	**253.160**
WUA -68	**Vannipakkam large&small**	**Vannipakkam large&small Tank Water Users Association**	**401.690**
WUA -69	**Kanagambakkam& Kollur**	**Kanagambakkam & Kollur Tank Water Users Association**	**82.610**
WUA -70	**Sennavaram**	**Sennavaram Tank Water Users Association**	**51.685**
WUA-71	**Durainallur**	**Durainallur Tank Water Users Association**	**79.630**
WUA -72	**Akkarapakkam**	**Akkarapakkam Tank Water Users Association**	**174.275**
WUA -73	**Amirthanallur& Kadanallur**	**Amirthanallur & Kadanallur Tanks Water Users Association**	**146.040**
WUA -74	**Thervazhi kuttan Thangal**	**Thervazhi kuttan Thangal Water Users Association**	**85.640**
WUA -75	**82. Panapakkam large&Chitheri**	**82. Panapakkam large&Chitheri Tank Water Users Association**	**254.485**
WUA -76	**Panayancheri**	**Panayancheri Tank Water Users Association**	**184.305**
WUA -77	**Rallapadi large**	**Rallapadi large Tank Water Users Association**	**66.785**
WUA -78	**Velapakkam large**	**Velapakkam large Tank Water Users Association**	**108.820**
WUA -79	**Ariyapakkam**	**Ariyapakkam Tank Water Users Association**	**53.700**
WUA -80	**Alapakkam**	**Alapakkam Tank Water Users Association**	**74.545**

WUA -81	**Athupakkam**	**Athupakkam Tank Water Users Association**	**119.250**
WUA -82	**Enambakkam**	**Enambakkam Tank Water Users Association**	**72.480**
WUA -83	**Kalpattu**	**Kalpattu Tank Water Users Association**	**92.570**
WUA -84	**Kannigaipair**	**Kannigaipair Tank Water Users Association**	**559.730**
WUA -85	**Malandur**	**Malandur Tank Water Users Association**	**108.085**
WUA -86	**Manjankaranai large & Small**	**Manjankaranai large & Small Tank Water Users Association**	**205.450**
WUA -87	**43. Panapakkam**	**43. Panapakkam Tank Water Users Association**	**150.250**
WUA -88	**Sennankaranai**	**Sennankaranai Tank Water Users Association**	**125.825**
WUA -89	**Vadamadurai**	**Vadamadurai Tank Water Users Association**	**601.000**
WUA -90	**Ammambakkam,Chellamm Seethanjeri a,&Kandigai Kanigal Kunda**	**Ammambakkam,Chellamma Seethanjeri,&Kandigai Kanigal Kunda Tank Water Users Association**	**118.120**
WUA -91	**Athilivakkam&Perumal odai**	**Athilivakkam&Perumal odai Tank Water Users Association**	**43.400**
WUA -92	**Avicheri Chitheri& Pudhucheri**	**Avicheri Chitheri & Pudhucheri Tank Water Users Association**	**142.235**
WUA -93	**Gunipalayam Peddha Cheruvu &East**	**Gunipalayam Peddha Cheruvu &East Tank Water Users Association**	**97.755**
WUA -94	**Kalavai**	**Kalavai Tank Water Users Association**	**61.490**

WUA -95	**Katchur Natteri& Pondavakkam Mukkani Thangal**	**Katchur Natteri& Pondavakkam Mukkani Thangal Tank Water Users Association**	**391.855**
WUA -96	**Mamandur Kottavakkam**	**Mamandur Kottavakkam Tank Water Users Association**	**36.610**
WUA -97	**Mambakkam**	**Mambakkam Tank Water Users Association**	**204.885**
WUA -98	**Pennalurpettai Chinna Cheruvu**	**Pennalurpettai Chinna Cheruvu Tank Water Users Association**	**79.685**
WUA -99	**Pennalurpettai Big**	**Pennalurpettai Big Tank Water Users Association**	**127.415**
WUA -100	**Peritivakkam Large & Small**	**Peritivakkam Large & Small Tank Water Users Association**	**44.415**
WUA -101	**Vazhudalambedu Large & Small**	**Vazhudalambedu Large & Small Tank Water Users Association**	**83.185**
WUA -102	**Kannalur Pudhu Eri**	**Kannalur Pudhu Eri Tank Water Users Association**	**67.815**
WUA -103	**Velekapuram Nagaleri**	**Velekapuram Nagaleri Tank Water Users Association**	**101.745**
WUA -104	**Srinivasapuram Kasthuri Naidukunda&Putheri**	**Srinivasapuram Kasthuri Naidukunda&Putheri Tank Water Users Association**	**22.570**
WUA -105	**Velekapuram Big**	**Velekapuram Big Tank Water Users Association**	**105.005**
WUA -106	**Karani**	**Karani Tank Water Users Association**	**74.070**
WUA -107	**Mangalam**	**Mangalam Tank Water Users Association**	**42.550**
WUA -108	**Nelvoy**	**Nelvoy Tank Water Users Association**	**144.675**

WUA -109	**Paleswaram**	**Paleswaram Tank Water Users Association**	**67.295**
WUA -110	**Serpedu**	**Serpedu Tank Water Users Association**	**85.390**
WUA -111	**Athupakkam Large**	**Athupakkam Large Tank Water Users Association**	**175.955**
WUA -112	**A.N. Kuppam**	**A.N. Kuppam Tank Water Users Association**	**133.435**
WUA -113	**Ayyanallur Large**	**Ayyanallur Large Tank Water Users Association**	**258.905**
WUA -114	**Chinnacholiambakkam Ochan Thangal**	**Chinnacholiambakkam Ochan Thangal Tank Water Users Association**	**83.585**
WUA -115	**Erukkuvoy**	**Erukkuvoy Tank Water Users Association**	**764.665**
WUA -116	**Gummidipoondi Perumanjaneri**	**Gummidipoondi Perumanjaneri and Hissa Tanks water users Association**	**581.670**
WUA -117	**Kuruviagaram**	**Kuruviagaram Tank Water Users Association**	**272.660**
WUA -118	**Melakalani Hissa**	**Melakalani Hissa Tank Water Users Association**	**198.515**
WUA -119	**Melmudalambedu**	**Melmudalambedu Tank Water Users Association**	**203.000**
WUA -120	**Palavakkam**	**Palavakkam Tank Water Users Association**	**195.750**
WUA -121	**Palaya Gummidipoondi Thamarai**	**Palaya Gummidipoondi Thamarai Tank Water Users Association**	**56.280**
		Total	**18618.890**

1.5 IRRIGATION INFRASTRUCTURE

1.5 IRRIGATION INFRASTRUCTURE

ABSTRACT ON THE DETAILS OF THE IRRIGATION INFRASTRUCTURES AVAILABLE / WORKS TAKEN UP UNDER IAMWARM PROJECT

Name of Sub Basin: Araniyar

SL. NO.	DETAILS	ANICUT			SYSTEM TANKS			NON SYSTEM TANKS			ANY OTHER SUPPLY CHANNEL		REMARKS
		NOS	SUPPLY CHANNEL IN KM	AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	LENGTH	AYACUT	
1	Available infrastructure in Sub Basin	2	35.50	No Direct Ayacut	38	71.700	6200.88	136	151.365	16118.235	-	-	
2	Infrastructure excluded in IAMWARM Projects since works carried out under various schemes from 2000	-	-	No Direct Ayacut	-	-	-	11	2.500	1447.545	-	-	
3	Infrastructrures that does not require any Re-habilitation works	-	-	No Direct Ayacut	-	-	-	---	-	---	-	-	
4	Works taken up in IAMWARM Project	2	35.50	-	38	71.700	6200.880	125	148.865	14670.69	-	-	

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. List of Anicuts with details of Villages, Block, Taluk, District, Direct Ayacut Area, Capacity etc :

SL. NO.	ANICUT	VILLAGE	BLOCK	TALUK	DISTRICT	DIRECT AYACUT AREA IN Ha	CAPACITY
1	Surutapalli Anicut	Surutapalli (A.P)	Sathiyavedu (A.P)	Nagalapuram (A.P)	Chittoor (A.P)	---	---
2	A.N. Kuppam Anicut	A. N. Kuppam	Gummudipoodi	Gummudipoodi	Tiruvallur	---	---
3	Lakshmipuram Anicut	Lakshmipuram	Minjur	Ponneri	Tiruvallur	---	---

2. List of System and Non System tanks with details of Villages, Block, Taluk, District, Direct Ayacut Area, Capacity etc.

Name of the Sub-Basin: Araniar Sub Basin **District : Thiruvallur**

Sl. No.	Name of Tank/Anicut/ Supply Channel	Name of Village	Block	Taluk	Ayacut in ha.	Remarks
	SYSTEM TANKS					
I	**SURUTAPALLAI ANICUT**					
1	Uthukottai Hissa Tank	Uthukottai, Tharatchi, Perandur	Ellapuram	Uthukottai	342.290	
2	Kakkavakkam Hissa Tank	Kakkavakkam, Vannankuppam, Thottaredykuppam, Tholavedu, paruthimenikuppam, Thandalam.	Ellapuram	Uthukottai	540.955	
3	Soolaimeni Thudapatheri	Soolaimeni	Ellapuram	Uthukottai	40.290	
4	Sengarai Hissa Tank	Sengarai	Ellapuram	Uthukottai	281.860	
5	Sengarai Ammaneri Tank	Sengarai	Ellapuram	Uthukottai		
6	Sengarai Ayyaneri Tank	Sengarai	Ellapuram	Uthukottai		
7	Latchivakkam Tank	Latchivakkam	Ellapuram	Uthukottai	171.940	
8	Perandur Tank	Perandur	Ellapuram	Uthukottai	268.390	
9	Senjiagaram Tank	Senjiagaram	Ellapuram	Uthukottai	136.770	
10	Senjiagaram Odai Thangal	Senjiagaram	Ellapuram	Uthukottai		JOINT
11	Senjiagaram Singilikuppam Tank	Senjiagaram	Ellapuram	Uthukottai		JOINT
12	Palavakkam Hissa Tank	Palavakkam	Ellapuram	Uthukottai	103.055	

13	Sirunai Errakulam Tank	Palavakkam	Ellapuram	Uthukottai		
14	Palavakkam Kuppam Thangal	Palavakkam	Ellapuram	Uthukottai		
		TOTAL	**14**		**1885.550**	
15	Mukkarambakkam Tank	Mukkarambakkam	Gummidipoondi	Gummidipoondi	171.040	
II	**A.N.KUPPAM ANICUT**					
1	Kilmudalambedu Tank	Kilmudalambedu	Gummidipoondi	Gummidipoondi	210.065	
2	Panpakkam Large Tank	Panpakkam	Gummidipoondi	Gummidipoondi	139.810	
3	Panpakkam Small Tank	Panpakkam	Gummidipoondi	Gummidipoondi	45.000	
4	Peruvoyal Tank	Peruvoyal	Gummidipoondi	Gummidipoondi	123.000	
5	Peruvoyal Putheri	Peruvoyal	Gummidipoondi	Gummidipoondi	66.070	
6	Enathimelpakkam Tank	Enathimelpakkam	Gummidipoondi	Gummidipoondi	153.650	
		TOTAL	**7**		**908.635**	
7	Asanapudhur Tank	Asanapudhur	Minjur	Ponneri	99.790	
8	Avoor Large Tank	Avoor	Minjur	Ponneri	283.290	
9	Avoor Chitheri	Avoor	Minjur	Ponneri	30.760	
10	Aplavaram Tank	Arasur	Minjur	Ponneri	53.125	
11	Andavoyal Tank	Arasur	Minjur	Ponneri	49.475	
12	Arasur Tank	Arasur	Minjur	Ponneri	91.315	
13	Eliambedu Tank	Eliambedu	Minjur	Ponneri	97.055	
14	Guduvanjeri Hissa Tank	Guduvanjeri	Minjur	Ponneri	136.630	
15	Kattavur Hissa Tank	Kattavur	Minjur	Ponneri	314.850	
16	Medur large Tank	Medur	Minjur	Ponneri	811.820	

17	Medur Krishnan Thangal	Joint	Minjur	Ponneri	0.000	
18	Vanjivakkam Large & Small Tank	Vanjivakkam	Minjur	Ponneri	224.170	
19	Kilikodi Tank	Kilikodi	Minjur	Ponneri	204.980	
20	Paranambedu Tank	Paranambedu	Minjur	Ponneri	98.230	
21	Sombattu Tank	Sombattu	Minjur	Ponneri	463.365	
III	**LAKSHMIPURAM ANICUT**					
1	Kumarasirulapakkam Tank	Aladu	Minjur	Ponneri	129.400	
2	Perumbedu Tank	Perumbedu	Minjur	Ponneri	318.440	
		TOTAL	**17**		**3406.695**	
	NON SYSTEM TANKS					
1	82. Panapakkam Tank	82. Panapakkam	Ellapuram	Uthukottai	176.525	
2	Alapakkam Tank	Alapakkam	Ellapuram	Uthukottai	74.545	
3	Enambakkam Tank	Enambakkam	Ellapuram	Uthukottai	72.480	
4	Kalpattu Tank	Kalpattu	Ellapuram	Uthukottai	92.570	
5	Malandur Tank	Malandur	Ellapuram	Uthukottai	108.085	
6	Panapakkam Chitheri	82. Panapakkam	Ellapuram	Uthukottai	77.960	
7	Vadamadurai Tank	Vadamadurai	Ellapuram	Uthukottai	601.000	
8	Manjankaranai Tank	Manjankaranai	Ellapuram	Uthukottai	89.030	
9	Ariyapakkam Tank	Athupakkam	Ellapuram	Uthukottai	53.700	
10	Athupakkam Tank	Athupakkam	Ellapuram	Uthukottai	119.250	
11	Kannigaipair Tank	Kannigaipair	Ellapuram	Uthukottai	559.730	
12	Manjankaranai Small Tank	Manjankaranai	Ellapuram	Uthukottai	116.420	

13	43. Panapakkam Tank	43. Panapakkam	Ellapuram	Uthukottai	150.250	
14	Sennankaranai Tank	Sennankaranai	Ellapuram	Uthukottai	125.825	
15	Akkarapakkam Tank	Akkarapakkam	Ellapuram	Uthukottai	174.275	
16	Rallapadi Tank	Rallapadi	Ellapuram	Uthukottai	66.785	
17	Thirunilai Tank	Thirunilai	Ellapuram	Uthukottai	93.635	
18	Maduravasal Tank	Maduravasal	Ellapuram	Uthukottai	196.525	
19	Panayancheri Tank	Panayancheri	Ellapuram	Uthukottai	184.305	
20	Velapakkam Tank	Velapakkam	Ellapuram	Uthukottai	108.820	
21	Kadanallur Tank	Kadanallur	Ellapuram	Uthukottai	52.895	
22	Amirthanallur Tank	Amirthanallur	Ellapuram	Uthukottai	146.040	
		TOTAL	**22**		**3440.650**	
23	Ammambakkam Tank	Ammambakkam	Poondi	Uthukottai	56.630	
24	Ammambakkam Chellamma Tank	Ammambakkam	Poondi	Uthukottai		JOINT
25	Seethanjeri Tank	Ammambakkam	Poondi	Uthukottai	67.680	
26	Chellamakandigai Kanigalagunda	Ammambakkam	Poondi	Uthukottai		JOINT
27	Avicheri Chitheri	Avicheri	Poondi	Uthukottai	56.235	
28	Kunipalayam Peddha Cheruvu	Gunipalayam	Poondi	Uthukottai	45.585	
29	Gunipalayam East Tank	Gunipalayam	Poondi	Uthukottai	52.170	
30	Pennalurpettai Chinna Cheruvu	Pennalurpettai	Poondi	Uthukottai	79.665	
31	Pennalurpettai Big Tank	Pennalurpettai	Poondi	Uthukottai	127.415	
32	Srinivasapuram Kasthuri Naidukunda	Pennalurpettai	Poondi	Uthukottai		JOINT

33	Srinivasapuram Putheri	Pennalurpettai	Poondi	Uthukottai		JOINT
34	Pudhucheri Tank	Pudhucheri	Poondi	Uthukottai	96.085	
35	Athilivakkam Tank & Perumal odai	Athilivakkam	Poondi	Uthukottai	43.400	
36	Mambakkam Tank	Mambakkam	Poondi	Uthukottai	204.885	
37	Kalavai Tank	Kalavai	Poondi	Uthukottai	61.490	
38	Peritivakkam Large & Small Tank	Perittivakkam	Poondi	Uthukottai	44.415	
39	Katchur Natteri	Katchur	Poondi	Uthukottai	391.855	
40	Pondavakkam Mukkani Thangal	Katchur	Poondi	Uthukottai		
41	Velekapuram Big Tank	Velakapuram	Poondi	Uthukottai	124.770	
42	Velekapuram Nagaleri	Velakapuram	Poondi	Uthukottai	81.975	
43	Mamandur Kottavakkam Tank	Velakapuram	Poondi	Uthukottai	40.010	
		TOTAL	**21**		**1574.265**	
44	Karani Tank	Karani	Gummidipoondi	Gummidipoondi	74.070	
45	Mangalam Tank	Mangalam	Gummidipoondi	Gummidipoondi	42.550	
46	Nelvoy Tank	Nelvoy	Gummidipoondi	Gummidipoondi	144.675	
47	Paleswaram Tank	Paleswaram	Gummidipoondi	Gummidipoondi	67.295	
48	Serpedu Tank	Serpedu	Gummidipoondi	Gummidipoondi	85.390	
49	A.N. Kuppam Tank	A.N. Kuppam	Gummidipoondi	Gummidipoondi	133.435	
50	Erukkuvoy Tank	Erukkuvoy, Manali	Gummidipoondi	Gummidipoondi	764.665	
51	Gummidipoondi Perumanjaneri	Palaya GPD	Gummidipoondi	Gummidipoondi	80.450	
52	Gummidipoondi Hissa Large	GPD, Verkadu	Gummidipoondi	Gummidipoondi	501.220	

53	Kannalur Pudhu Eri	Kannalur	Gummidipoondi	Gummidipoondi	67.815	
54	Melmudalambedu Tank	Melmudalambedu	Gummidipoondi	Gummidipoondi	203.000	
55	Palavakkam Tank	Palavakkam	Gummidipoondi	Gummidipoondi	185.750	
56	Athupakkam Large Tank and Kannaputheri Small	Athupakkam	Gummidipoondi	Gummidipoondi	175.955	
57	Ayyanallur Large Tank	Ayyanallur	Gummidipoondi	Gummidipoondi	258.905	
58	Ayyanallur Small Tank	Ayyanallur	Gummidipoondi	Gummidipoondi	157.405	
59	Chinnacholiambakkam Ochan Thangal	Peria Choliambakkam	Gummidipoondi	Gummidipoondi	83.585	
60	Kuruviagarak Tank	Kuruviagaram	Gummidipoondi	Gummidipoondi	272.660	
61	Melakalani Hissa Tank	Melakalani	Gummidipoondi	Gummidipoondi	198.515	
62	Palaya Gummidipoondi Thamarai	Palaya GPD	Gummidipoondi	Gummidipoondi		
63	Rettambedu Tank	Rettambedu	Gummidipoondi	Gummidipoondi	215.155	
64	Sennavaram Tank	Sennavaram	Gummidipoondi	Gummidipoondi	51.685	
65	Thervali Kuttankulam Thangal and Thervali Thamarai	Thervazhi	Gummidipoondi	Gummidipoondi	46.365	
66	Vazhudalambedu Large & Small	Vazhudalambedu	Gummidipoondi	Gummidipoondi	83.185	
67	Vellambakkam Small	Joint	Gummidipoondi	Gummidipoondi		
68	Pudhuvoyal Tank	Pudhuvoyal	Gummidipoondi	Ponneri	145.345	
	TOTAL		**25**		**4039.075**	
69	Kanagambakkam Tank	Kanagambakkam	Minjur	Ponneri	40.500	
70	Kollur Tank	Kollur	Minjur	Ponneri	42.110	
71	Aladu Peria Thangal	Aladu	Minjur	Ponneri	62.320	
72	Erisivan Tank	Erisivan	Minjur	Ponneri	41.200	

73	Kummangalam Tank	Ponneri	Minjur	Ponneri	96.085	
74	Lakshmipuram Tank	Lakshmipuram	Minjur	Ponneri	40.135	
75	Manopuram Tank	Aladu	Minjur	Ponneri	50.180	
76	Thadaperumbakkam Tank	Thadaperumbakkam	Minjur	Ponneri	208.410	
77	Aladu Tank	Aladu	Minjur	Ponneri	113.310	
78	Onbakkam Tank	Thirupalaivanam	Minjur	Ponneri	79.130	
79	Sitrarasur Tank	Arasur	Minjur	Ponneri	43.800	
80	Thirupalaivanam Tank	Thirupalaivanam	Minjur	Ponneri	152.625	
81	Vembedu Tank	Vembedu	Minjur	Ponneri	73.610	
82	Vidathandalam Tank	Medur	Minjur	Ponneri	65.970	
83	Annamalaicheri Large Tank	Annamalaicheri	Minjur	Ponneri	121.375	
84	Annamalaicheri Small Tank	Annamalaicheri	Minjur	Ponneri		JOINT
85	Avurivakkam Tank	Avurivakkam	Minjur	Ponneri	41.025	
86	Kanchivoyal Tank	Thirupalaivanam	Minjur	Ponneri	44.855	
87	Kolur Small Tank	Kolur	Minjur	Ponneri	127.480	
88	Kolur Large Tank	Kolur	Minjur	Ponneri	268.610	
89	Poovamai Large Tank	Poovamai	Minjur	Ponneri	135.540	
90	Poovamai Small Tank	Joint	Minjur	Ponneri		JOINT
91	Pakkam Large Tank	Pakkam	Minjur	Ponneri	84.985	
92	Sirulapakkam Large Tank	Sirulapakkam	Minjur	Ponneri	129.410	
93	Sirulapakkam Small Tank	Joint	Minjur	Ponneri		JOINT

94	Ilupakkam Tank	Ilupakkam	Minjur	Ponneri	96.380	
95	Kanganimedu Tank	Kanganimedu	Minjur	Ponneri	40.275	
96	Kudinelvoyal Tank	Agaram	Minjur	Ponneri	62.325	
97	Kumaranjeri Tank	Kumaranjeri	Minjur	Ponneri	66.115	
98	Panapakkam Tank	Panapakkam	Minjur	Ponneri	99.390	
99	Periyaveppathur Large	Sirulapakkam	Minjur	Ponneri	138.500	
100	Periyaveppathur Thangal	Joint	Minjur	Ponneri		
101	Periyakarumbur Hissa Tank	Periakarumbur	Minjur	Ponneri	202.665	
102	Periyakarumbur Small Tank	Periakarumbur	Minjur	Ponneri	44.320	
103	Seliambedu Aleri	Devambedu	Minjur	Ponneri	71.625	
104	Seganyam Large Tank	Sekanyam	Minjur	Ponneri	166.190	
105	Seganyam Small Tank	Joint	Minjur	Ponneri		JOINT
106	Umipedu Tank	Sekanyam	Minjur	Ponneri	88.020	
107	Keerapakkam Tank	Keerapakkam	Minjur	Ponneri	67.580	
108	Kallur Tank	Kallur	Minjur	Ponneri	182.510	
109	Uppunelvoyal Tank	Uppunelvoyal	Minjur	Ponneri	118.570	
110	Pallipalayam Tank	Pallipalayam	Minjur	Ponneri	91.860	
111	Anuppampattu Thangal	Anuppampattu	Minjur	Ponneri	234.670	
112	Athreyamangalam Tank	Aladu	Minjur	Ponneri	122.600	
113	Devadanam Tank	Devadanam	Minjur	Ponneri	273.550	
114	Kadapakkam Large Tank	Kadapakkam	Minjur	Ponneri	107.395	

115	Kadapakkam Small Tank	Kadapakkam	Minjur	Ponneri		JOINT
116	Pralayambakkam Tank	Pralayambakkam	Minjur	Ponneri	196.455	
117	Sirupalaverkadu Seepaneri	Sirupalaverkadu	Minjur	Ponneri	56.875	
118	Sirupalaverkadu Araneri	Sirupalaverkadu	Minjur	Ponneri		JOINT
119	Thangal Perumbulam Tank	Thangal Perumbulam	Minjur	Ponneri	195.735	
120	Velur Palleri	Velur	Minjur	Ponneri	53.825	
121	Velur Ammaneri	Velur	Minjur	Ponneri	199.335	
122	Elavambedu Tank	Elavambedu	Minjur	Ponneri	262.320	
123	Vannipakkam Large Tank	Vannipakkam	Minjur	Ponneri	200.885	
124	Vannipakkam Small Tank	Vannipakkam	Minjur	Ponneri		JOINT
		TOTAL	**56**		**5502.635**	
125	Arani Tank	Arani	Cholavaram	Ponneri	245.630	
126	Chinnambedu Large Tank	Chinnambedu	Cholavaram	Ponneri	670.620	
127	Chinnambedu Small Tank	Chinnambedu	Cholavaram	Ponneri	46.140	
128	Durainallur Tank	Durainallur	Cholavaram	Ponneri	79.630	
129	Kilmeni Tank	Kilmeni	Cholavaram	Ponneri	79.005	
130	Peravallur Tank	Peravallur	Cholavaram	Ponneri	80.130	
131	Perunjeri Tank	Perunjeri	Cholavaram	Ponneri	73.375	
132	Pondavakkam Pudhu Eri	Pondavakkam	Cholavaram	Ponneri	50.590	
133	Vadakkunallur Tank	Vadakkunallur	Cholavaram	Ponneri	81.655	
134	Vairavankuppam Tank	Vairavankuppam	Cholavaram	Ponneri	41.240	

135	Bandikavanur Big Tank	Bandikavanur	Cholavaram	Ponneri	55.105	
136	Bandikavanur Chitheri	Bandikavanur	Cholavaram	Ponneri	58.490	
		TOTAL	**12**		**1561.610**	

3. LIST OF SUPPLY CHENNALS WITH DETAILS OF FEEDING TANKS

SL. NO.	RESERVOIRS / ANICUTS / DIVIDING DAMS / BED DAMS / OFF-TAKES	SUPPLY CHENNAL		FEEDING TANKS
		LEFT	RIGHT	
1	Surutapalli Anicut	Left	---	15 Nos.
2	A.N. Kuppam Anicut	Left	---	20 Nos.
3	Lakshmipuram Anicut	Left	Right	1 + 3 = 4 Nos.

4. LIST OF TANKS / ANICUTS EXECUTED UNDER VARIOUS SCHEMES (VIZ. PART II SCHEME, NABARD, WRCP I ETC.,) SINCE 2000

SL. NO.	NAME OF ANICUT / TANKS	AYACUT IN HA	SCHEME IN WHICH EXECUTED	AMOUNT RS IN LAKHS	DETAILS OF COMPONENTS EXECUTED	REMARKS
1	Peravallur Tank	80.130	NABARD	10.00	Bund,Sluice & selective lining	
2	Manjan karanai	89.030	NABARD	10.00	Bund,Sluice & selective lining	
3	Palavakkam	195.750	NABARD	10.00	Bund,Sluice & selective lining	
4	Keerapakkam	67.580	NABARD	62.26	Bund,Sluice & selective lining	
5	Kallur	182.510	NABARD	56.83	Bund,Sluice & selective lining	
6	Uppunelvoyal	118.570	NABARD	31.07	Bund,Sluice & selective lining	
7	Pallipalayam	91.860	NABARD	35.66	Bund,Sluice & selective lining	
8	Kadapakkam Large	81.340	NABARD	22.50	Bund,Sluice & selective lining	
9	Melmudalambedu	203.00	PART II	30.00	Bund,Sluice	
10	Tadaperumbakkam	208.410	PART II	31.54	Bund,Sluice & selective lining	
11	Aladu Tank	113.310	PART II	17.00	Bund,Sluice	
	Total	**1431.490**				

1.6 REHABILITATION OF IRRIGATION INFRASTRUCTURE

1.6 Rehabilitation of Irrigation Infrastructure

1.6.1 Structural Status & Deficiencies in the System

1.6 Rehabilitation of Irrigation Infrastructure

1.6.1 Structural Status & Deficiencies in the System

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

1. The tank irrigation system is a old system existing for more than 100 Years as such requires Rehabilitation.
2. Heavy accumulation of silt due to non rehabilitating for several years.
3. Lack of adequate control of regulating structures like Tank Sluices and weirs etc.,
4. The damaged (or) dilapidated condition of the existing Tank Sluices,Weirs etc. and supply channels causes to poor standard of the entire conveyance system.
5. The System and Non system tanks are to be rehabilitated with Strengthening of Tank Bunds which are below standard and dameges occurs during floods.
6. Heavy encroachment prevailing in the water spread area and channel couse due to proximity to the metropolitan city. Hence Demarcation and eviction of encroachment is essential.

Salient Features of Proposals :

In order to improve the conveyance and Operational Efficiency in Irrigation, it is now proposed to improve and modernize the Irrigation Infrastructures in Araniyar Sub basin.

1. **Suruttapalli Anicut:** Desilting the supply channels by earthwork excavation, providing lining to selective reaches of supply channel and demarcation of boundaries.

2. **A.N.Kuppam Anicut**:Repairs to the damaged Aprons, Revetment to the side slopes at selected places, Repairs to Head sluice, Replacing scour vent shutters and outlet shutters.Desilting the supply channels by earthwork excavation and providing lining to selective reaches and repairs to existing bed lining and demarcation of boundaries.

3. **Lakshmipuram anicut**: Repairs to U/S and D/S Aprons, Repairs to Head sluice shutters and scour vent shutters, Repairs to Anicut Complex and Desilting the supply channels by earthwork excavation. Standardisation of upstream flood bank and repairs to revetment.

4. Repairing, Restoring the traditional water bodies (i.e. Non System and System tanks)
   a. Desilting the supply channels by earthwork excavation.
   b. Strengthening the bunds of the tanks to the standards wherever necessary for effectively storing the water and conveying it to the entire command area and also for conveying agriculture inputs to the field.
   c. Reconstruction and Repairs to the damaged Tank Sluices .
   d. Recostruction and Repairs to the damaged weirs
   e. Providing revetments and Retaining walls in selective area of the tanks
   f. Providing S.G. Shutter / Plug arrangements to Sluices.
   g. Removing, Repairing and re fixing in position of the existing S.G. shuttering arrangements and providing locking arrangements etc.,
   h. Fixing Demarcation concrete pillar at water spread area and along the channel courses and eviction of encroachment.
   i. Providing Culverts and inlets wherever required at tanks.

1.6.2 Expected Outcome

1. Increase in conveyance efficiency from 43% to 53%
2. The present Gap area of 3378.62 Ha and Partially irrigated area of 6904.545 Ha have been proposed to be converted as a fully irrigated area.The permanent gap area of 365.97 Ha is left as it is since it is consisting of buildings,permanent structures etc
3. The following irrigation infrastructure development works are proposed in the sub basin.

   Repairs to 2 anicuts and supply channel from Anicuts

   Lining the supply channel for a length of 0.900 KM

   Desilting of supply channel for a length of 256.06 KM

   Reconstruction of Tank sluices for 332 Nos

Repairs to Tank sluices for 15 Nos

Reconstruction of Tank Weirs for 17 Nos

Repairs to Tank Weirs 161 Nos

Standardisation of Tank Bund for 316.420 KM

Demarcation of boundaries for 158 Tanks

Providing Measuring Device 299 Nos in 158 tanks.

Other works such as Culverts,Inlets,outlet etc for 58 tanks

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Package No. 1

Sl. No.	Name of Tank / Anicut	Ayacut in Hectare	Bund		Sluice			Weir			Supply Channel Desilting		Supply Channel lining		Anicut Repairs		Measuring Device		Others (Inlet, Culvert, etc.)	Amount in Lakhs
			Length	Amt.	Re cons No	Re pair No	Amt.	Re cons No	Re pair No	Amt.	Length	Amt.	Length	Amt.	No	Amt		Amt		
1	Ammambakkam Tank	**56.63**	760	9.83	1	0	3.58	0	1	0.71	400	0.52	0	0	0	0	1	0.18	0.63	15.45
2	Ammambakkam ChellammaTank		750	8.41	1	0	2.82	0	1	2.76	500	0.88	0	0	0	0			0.61	15.48
3	Avicheri Chitteri	**56.235**	700	7.8	2	0	4.68	0	1	1.26	400	0.52	0	0	0	0	1	0.18	0.61	15.05
4	Seethanjeri Tank	**67.68**	735	7.58	2	0	8.26	0	1	1.67	300	0.44	0	0	0	0	1	0.18	0.58	18.71
5	Chellama Kandigai Kanigalagunta		690	6.75	1	0	2.48	0	1	0.62	400	0.58	0	0	0	0			0.57	11
6	Gunipalayam Pedda Cheruvu	**45.585**	1067	10.43	0	0	0	0	1	11.63	1000	1.42	0	0	0	0	1	0.18	0.83	24.49
7	Gunipalayam East Tank	**52.17**	1000	9.66	1	0	2.88	0	1	2.47	1000	1.8	0	0	0	0	1	0.18	1.36	18.35
8	Pennalurpet Chianna Cheruvu	**79.665**	1100	0	1	0	2.94	0	0	0	1200	1.37	0	0	0	0	1	0.18	0.85	5.34
9	Pennalurpet Big Tank		712	7.01	1	0	3.33	0	1	10.33	1100	1.04	0	0	0	0	1	0.18	0.53	22.42

10	Srinivasapuram Kasturi Naidu gunta	**127.42**	512	5.52	1	0	3.47	0	1	0.96	700	0.85	0	0	0	0			0.4	11.2
11	Srinivasapuram Pudueri		700	6.99	1	0	3.21	0	1	2.24	700	1.81	0	0	0	0	1	0.18	0.55	14.98
12	Puduchery Tank	**96.085**	1707	14.42	1	0	3.38	0	1	3.94	800	0.73	0	0	0	0	1	0.18	1.33	23.98
13	Athilivakkam Tank & Perumal odai	**43.4**	914	10.15	1	0	3.46	0	1	1.75	1000	1.79	0	0	0	0	1	0.18	0.72	18.05
14	Mambakkam Tank	**204.89**	1890	14.53	2	0	6.66	0	1	1.85	1000	1.21	0	0	0	0	1	0.18	1.3	25.73
15	Kalavai Tank	**61.49**	470	5.29	1	0	4.87	0	1	1.51	1000	1.61	0	0	0	0	1	0.18	0.36	13.82
16	Perittivakkam Large & Small	**44.415**	1640	13.34	1	0	2.52	0	1	1.61	1000	2.09	0	0	0	0	1	0.18	1.28	21.02
17	Katchur Netteri	**391.86**	2590	21.06	1	0	3.35	0	1	8.66	6000	3.84	0	0	0	0	1	0.18	1.98	39.07
18	Mamandur Kottavakkam Tank	**40.01**	700	6.33	2	0	3.72	0	0	0	1100	0.97	0	0	0	0	1	0.18	0.55	11.75
19	Pondavakkam Moongani Thangal	**0**	680	6.17	1	0	1.85	0	0	0	400	0.36	0	0	0	0			0.53	8.91
20	Velagapuram Big Tank	**124.77**	1100	14.24	1	0	2.73	0	1	7.55	1300	1.26	0	0	0	0	1	0.18	1.28	27.24
21	Velagapuram Nagaleri	**81.975**	1646	9.91	1	0	3.55	0	0	0	1200	1.02	0	0	0	0	1	0.18	0.87	15.53
	Providing Bed bar																		114	3.73
	Total	**1574**	**22063**	**195.42**	**24**	**0**	**73.7**	**0**	**17**	**61.52**	**22500**	**26.11**	**0**	**0**	**0**	**0**	**17**	**3.06**	**17.72**	**381.30**

Package No. 2

Sl. No.	Name of Tank / Anicut	Ayacut in Hectare	Bund		Sluice			Weir			Supply Channel Desilting		Supply Channel lining		Anicut Repairs		Measuring Device		Others (Inlet, Culvert, etc.)	Amount in Lakhs
			Length	Amt.	Re cons No	Re pair No	Amt.	Re cons No	Re pair No	Amt.	Length	Amt.	Length	Amt.	No	Amt		Amt		
1	Suruttapalli Anicut										14000	20	900	48				0	7.43	55.43
2	Lachivakkam Tank	**171.94**	2012	18.85	3	0	9.24	0	2	6.14	200	0.29	0		0	0	2	0.36	1.51	36.39
3	Perandur Tank	**268.39**	2426	23.27	5	0	15.2	0	1	2.64	900	0	0	0	0	0	2	0.36	5.11	46.61
4	Sengiagaram Tank	**136.77**	945	6.36	1	0	2.12	0	1	3.43	1700	3.84	0	0	0	0	2	0.36	1.91	18.02
5	Sengiagaram Odai Thangal	**0**	427	2.71	1	0	1.81	0	1	0	700	1.59	0	0	0	0	2	0.36	5.16	11.63
6	Sengiagaram Singilikuppam	**0**	640	4.8	1	0	1.72	0	1	2.1	1000	2.28	0	0	0	0	2	0.36	3.54	14.8
7	Uthukottai Hissa Tank	**342.29**	1910	18.42	6	0	18.2	0	1	2.96	3400	3.22	0	0	0	0	3	0.54	5.47	48.78
8	Kakkavakkam Hissa Tank	**540.96**	2652	23.55	4	0	15	0	2	7.74	800	3.53	0	0	0	0	3	0.54	5.41	55.76
9	Sulaimeni Thodapatheri	**40.29**	1265	7.31	1	0	1.96	0	1	4.3	600	1.11	0	0	0	0	2	0.36	2.73	17.77
10	Sengarai Hissa Tank	**281.86**	2499	18.75	3	0	12.8	0	1	5.37	600	0.62	0	0	0	0	3	0.54	5.85	43.94

11	Sengarai Ammaneri Tank	**0**	314	2.15	1	0	2.03	0	1	1.93	500	1.13	0	0	0	0	2	0.36	1.14	8.74
12	Sengarai Ayyaneri	**0**	762	3.59	1	0	2.85	0	1	2.42	2800	2.39	0	0	0	0	2	0.36	3.06	14.67
13	Palavakkam Hissa Tank	**103.06**	1707	12.84	2	0	10.3	0	2	29.71	1200	1.19	0	0	0	0	3	0.54	3.02	57.58
14	Sirunai Erakulam Tank	**0**	360	2.54	1	0	1.73	0	0	0	700	0.71	0	0	0	0	2	0.36	2.63	7.97
15	Palavakkam Kuppam Thangal	**0**	550	3.92	2	0	4.37	0	1	3.24	700	0.71	0	0	0	0	2	0.36	1.07	13.67
	Providing Bed bar																		150	5.95
	Total	**1886**	**18469**	**149.06**	**32**	**0**	**99.3**	**0**	**16**	**71.98**	**29800**	**42.61**	**900**	**48**	**0**	**0**	**32**	**5.76**	**47.61**	**457.71**

Package No. 3

Sl. No.	Name of Tank / Anicut	Ayacut in Hectare	Bund		Sluice			Weir			Supply Channel Desilting		Supply Channel lining		Anicut Repairs		Measuring Device		Others (Inlet, Culvert, etc.)	Amount in Lakhs
			Length	Amt.	Re cons No	Re pair No	Amt.	Re cons No	Re pair No	Amt.	Length	Amt.	Length	Amt.	No	Amt		Amt		
1	82. Panapakkam Tank	**176.53**	2735	21.37	2	0	6.52	0	2	8.96	300	2.99	0	0	0	0	3	0.54	4.78	45.16
2	Alapakkam Tank	**74.545**	760	6.43	2	0	5.35	0	2	7.52	1200	0	0	0	0	0	2	0.36	2.22	21.88
3	Enambakkam Tank	**72.48**	1567	13.89	3	0	9.13	0	1	4.82	2000	1.56	0	0	0	0	2	0.36	4.3	34.06
4	Kalpattu Tank	**92.57**	1360	12.19	4	0	12.3	0	4	7.28	1700	1.73	0	0	0	0	3	0.54	3.73	37.77
5	Malandur Tank	**108.09**	900	9.47	2	0	8.99	0	1	8.55	1200	0	0	0	0	0	3	0.54	2.5	30.05
6	82. Panappakkam Chitteri	**77.96**	2422	19.58	3	0	9.36	0	1	6.49	2400	0	0	0	0	0	2	0.36	6.28	42.07
7	Vadamadurai Tank	**601**	3095	20.51	4	0	12	0	3	15.97	5200	5.27	0	0	0	0	4	0.72	9.2	63.69
8	Manjankaranai Tank	**89.03**	Work done under MLA Fund															0	0	0
9	Ariyapakkam Tank	**53.7**	1173	10.44	3	0	5.53	0	1	2.15	700	0	0	0	0	0	2	0.36	2.72	21.2
10	Athupakkam Tank	**119.25**	1707	40.7	2	0	4.55	0	1	3.27	1400	0	0	0	0	0	3	0.54	4.33	53.39

11	Kannigaiper Tank	**559.73**	4562	45.45	5	0	14.6	0	3	15.65	2900	2.91	0	0	0	0	3	0.54	10.89	90.02
12	Manjankaranai Small Tank	**116.42**	770	6.28	1	0	4.4	0	0	0	1500	0	0	0	0	0	3	0.54	2.4	13.62
13	43. Panappakkam Tank	**150.25**	2256	17.53	4	0	9.97	0	1	5.99	3000	2.96	0	0	0	0	3	0.54	6.25	43.24
14	Sennankaranai Tank	**125.83**	1244	9.44	1	0	2.28	0	1	5.19	3200	3.15	0	0	0	0	2	0.36	4.34	24.76
	Providing Bed bar																		135	4.24
	Total	**2417**	**24551**	**233.28**	**36**	**0**	**105**	**0**	**21**	**91.84**	**26700**	**20.57**	**0**	**0**	**0**	**0**	**35**	**6.3**	**63.94**	**525.15**

Package No. 4

Sl. No.	Name of Tank / Anicut	Ayacut in Hectare	Bund		Sluice			Weir			Supply Channel Desilting		Supply Channel lining		Anicut Repairs		Measuring Device	Amt	Others (Inlet, Culvert, etc.)	Amount in Lakhs
			Length	Amt.	Re cons No	Re pair No	Amt.	Re cons No	Re pair No	Amt.	Length	Amt.	Length	Amt.	No	Amt				
1	Arani Tank	245.6	3565	30.47	2	2	11.1	0	2	3.71	3000	4.5	0	0	0	0	3	0.54	3.76	54.09
2	Chinnambedu Large Tank	670.6	5820	40	3	4	26	0	2	11	4600	4.5	0	0	0	0	3	0.54	12.93	94.97
3	Chinnambedu Small Tank	**46.14**	1385	10.3	2	0	2	0	1	2	500	1.5	0	0	0	0	1	0.18	2.11	18.09
4	Durainallur Tank	**79.63**	1995	16	2	0	4.1	0	1	3.3	2000	1.93	0	0	0	0	2	0.36	0.78	26.47
5	Kilmeni Tank	**79.005**	1630	13.82	2	0	4.72	0	2	7.55	1700	2.41	0	0	0	0	2	0.36	2.45	31.31
6	Peruncheri Tank	**73.375**	590	4.67	2	0	2.54	0	1	0.89	500	0	0	0	0	0	2	0.36	0.65	9.11
7	Pondavakkam Pudhu Eri	**50.59**	1435	12.11	2	0	3.47	0	1	0.32	500	0	0	0	0	0	2	0.36	1.32	17.58
8	Vadakkunallur Tank	**81.655**	1845	16.5	1	0	3.64	0	1	4.22	500	0	0	0	0	0	2	0.36	1.52	26.24
9	Vairavankuppam Tank	**41.24**	1675	13.93	2	0	4.36	1	0	2.65	500	0	0	0	0	0	2	0.36	1.44	22.74

10	Akkarapakkam Tank	**174.28**	2580	22.23	4	0	12.5	1	1	7.07	1500	0	0	0	0	0	2	0.36	2.5	44.65
11	Rallapadi Tank	**66.785**	1075	8.41	1	0	2.64	0	1	0.12	600	0	0	0	0	0	2	0.36	1.03	12.56
12	Tirunilai Tank	**93.635**	2560	21.45	2	0	6.5	0	0	0	400	0	0	0	0	0	2	0.36	1.97	30.28
13	Puduvoyal Tank	**145.35**	1705	14.16	1	0	2.54	0	1	0.54	1800	2.96	0	0	0	0	2	0.36	1.8	22.36
14	Peravallur Tank	**80.13**	Work done under MLA Fund																	
	Providing Bed bar																		92	2.28
	Total	**1928**	**27860**	**224.05**	**26**	**6**	**86.1**	**2**	**14**	**43.37**	**18100**	**17.8**	**0**	**0**	**0**	**0**	**27**	**4.86**	**34.26**	**412.73**

Package No. 5

Sl. No.	Name of Tank / Anicut	Ayacut in Hectare	Bund		Sluice			Weir			Supply Channel Desilting		Supply Channel lining		Anicut Repairs		Measuring Device		Others (Inlet, Culvert, etc.)	Amount in Lakhs
			Length	Amt.	Re cons No	Re pair No	Amt.	Re cons No	Re pair No	Amt.	Length	Amt.	Length	Amt.	No	Amt		Amt		
1	Bandikavanur Big Tank	**55.105**	1405	13.98	1	0	1.65	0	1	2.82	300	0	0	0	0	0	2	0.36	0.88	19.69
2	Bandikavanur Chitheri	**58.49**	585	5.7	1	0	1.55	0	1	0.85	500	0	0	0	0	0	1	0.18	0.6	8.88
3	Maduravasal Tank	**196.53**	3210	32.95	3	0	9.99	0	1	1.73	1700	2.39	0	0	0	0	2	0.36	3.29	50.71
4	Panayancheri Tank	**184.31**	3710	37.45	2	0	6.04	0	1	1.64	4300	6.31	0	0	0	0	2	0.36	5.5	57.3
5	Velappakkam Tank	**108.82**	1680	15.24	1	0	1.64	0	0	0	1100	1.44	0	0	0	0	2	0.36	2.01	20.69
6	Karani Tank	**74.07**	1905	18.18	2	1	3.4	0	1	1.2	2000	2.66	0	0	0	0	2	0.36	1.89	27.69
7	Mangalam Tank	**42.55**	1950	8.7	1	0	1.5	0	1	0.64	500	0	0	0	0	0	1	0.18	0.82	11.84
8	Nelvoy Tank	**144.68**	1980	19.93	1	0	1.98	0	1	0.43	1615	2.68	0	0	0	0	2	0.36	2.29	27.67
9	Paleswaram Tank	**67.295**	1100	9.95	2	0	3.29	0	1	4.15	500	0	0	0	0	0	2	0.36	0.77	18.52
10	Serpedu Tank	**85.39**	900	9.67	0	1	2.5	0	1	1.61	500	0.5	0	0	0	0	2	0.36	0.8	15.44
11	Kadanallur Tank	**52.895**	1200	11.84	1	0	2.33	0	1	1.07	500	0	0	0	0	0	2	0.36	3.08	18.68

12	Amirthanallur Tank	**146.04**	2285	24.67	3	0	6.09	0	0	0	500	0	0	0	0	0	2	0.36	1.82	32.94
13	Mukkarambakkam	**171.04**	803	22.49	2	0	6.76	0	0	0	1500	2.25	0	0	0	0	2	0.36	2.22	34.08
	Providing Bed bar																		79	2.26
	Total	**1387**	**22713**	**230.75**	**20**	**2**	**48.7**	**0**	**10**	**16.14**	**15515**	**18.23**	**0**	**0**	**0**	**0**	**24**	**4.32**	**25.97**	**346.39**

Package No. 6

Sl. No.	Name of Tank / Anicut	Ayacut in Hectare	Bund		Sluice			Weir			Supply Channel Desilting		Supply Channel lining		Anicut Repairs		Measuring Device		Others (Inlet, Culvert, etc.)	Amount in Lakhs
			Length	Amt.	Re cons No	Re pair No	Amt.	Re cons No	Re pair No	Amt.	Length	Amt.	Length	Amt.	No	Amt		Amt		
1	A.N.Kuppam Tank	**133.44**	2440	22.4	1	0	2.43	0	2	4.45	2500	2.3	0	0	0	0	1	0.18	3.19	34.95
2	Erukkuvouy Tank	**764.67**	1770	15.8	1	0	2.4	0	1	3.3	1500	2.25	0	0	0	0	1	0.18	2.63	26.56
3	Gummudipoondi Hissa Large Tank	**501.22**	3750	27.87	2	0	4.62	0	2	5.88	6000	5.8	0	0	0	0	2	0.36	2.2	46.73
4	Gummidipoondi Perumanjeri	**80.45**	700	7.8	1	0	1.89	0	1	1.83	800	0.8	0	0	0	0	1	0.18	1.13	13.63
5	Kannalur Pudhu Eri	**67.815**	1920	14.74	1	0	2.14	0	1	1.95	1000	2	0	0	0	0	1	0.18	0.53	21.54
6	Kankambakkam Tank	**40.5**	1100	10.65	2	0	3.86	0	1	3.42			0	0	0	0	1	0.18	0.97	19.08
7	Kollur Tank	**42.11**	1300	11.1	1	0	1.95	0	1	2.44			0	0	0	0	1	0.18	0	15.67
8	Kilikkodi Tank	**204.98**	2480	22.32	1	0	1.95	0	1	4.89			0	0	0	0	1	0.18	3.61	32.95
9	Kilmudalambedu Tank	**210.07**	3800	28.42	2	0	4.23	0	1	7.28	500	1.8	0	0	0	0	2	0.36	5.58	47.67
10	Panpakkam Large Tank	**139.81**	2740	23.21	1	0	2.28	0	1	8.24	1200	0.95	0	0	0	0	2	0.36	2.64	37.68
11	Panpakkam Small Tank	**45**	1000	9.2	1	0	1.98	0	1	3.35			0	0	0	0	1	0.18	1.48	16.19
12	Peruvoyal Tank	**123**	2330	19.88	1	0	2.23	0	1	5.48			0	0	0	0	1	0.18	4.05	31.82

13	Peruvoyal Putheri	**66.07**	1580	12.8	1	0	1.88	0	1	3.48			0	0	0	0	1	0.18	2.95	21.29
14	Melmudalambedu Tank	**203**	Work done Under Part II Scheme															0	0	0
15	Palavakkam Tank	**185.75**	Work done under MLA Fund															0	0	0
16	A.N. KUPPAM ANICUT										16000	10.2			1	66		0	2	78.65
	Providing Bed bar																		143	5.00
	Total	**2808**	**26910**	**226.19**	**16**	**0**	**33.8**	**0**	**15**	**55.99**	**29500**	**26.1**	**0**	**0**	**1**	**66**	**16**	**2.88**	**32.96**	**449.41**

Package No. 7

Sl. No.	Name of Tank / Anicut	Ayacut in Hectare	Bund		Sluice			Weir			Supply Channel Desilting		Supply Channel lining		Anicut Repairs		Measuring Device		Others (Inlet, Culvert, etc.)	Amount in Lakhs
			Length	Amt.	Re cons No	Re pair No	Amt.	Re cons No	Re pair No	Amt.	Length	Amt.	Length	Amt.	No	Amt		Amt		
1	Athupakkam Large Tank		670	6.2	2	0	3.98	0	1	1.48			0	0	0	0	2	0.36	0.96	12.98
2	Authupakkam Kannaputheri Small	**175.96**	930	7.31	1	0	1.88	0	2	6.57	1500	0	0	0	0	0	1	0.18	1.45	17.39
3	Ayanallur Large Tank	**258.91**	3480	31.94	2	0	5.06	0	3	7.44	1000	1.97	0	0	0	0	2	0.36	2.85	49.62
4	Ayanallur Small Tank	**157.41**	1460	14.71	1	0	3.94	0	1	2.66	1000	1.51	0	0	0	0	1	0.18	1.71	24.71
5	Chinnasoliambakkam Ochan Thangal	**83.585**	900	8.33	2	0	3.89	0	1	4.42	3000	3.83	0	0	0	0	1	0.18	2.9	23.55
6	Kuruviagaram Tank	**272.66**	2190	18.64	3	0	6.16	0	1	5.87	2000	3	0	0	0	0	2	0.36	5.17	39.2
7	Melakalani Hissa Katteri	**198.52**	1830	16.45	2	0	5.68	0	1	3.87	2500	2.4	0	0	0	0	2	0.36	2.6	31.36
8	Rettambedu Tank	**215.16**	3340	28.2	1	0	1.88	0	1	3.48	1200	1	0	0	0	0	2	0.36	2.89	37.81
9	Palaya Gummudi-poondi Thamarai	**0**	1140	12.72	1	0	3.36	0	1	2.54	1000	1.9	0	0	0	0	2	0.36	1.24	22.12
10	Sennavaram Tank	**51.685**	800	7.14	1	0	2.42	0	1	3.5		0	0	0	0	0	1	0.18	0.89	14.13

11	Thervali Kuttankulam Thangal & Thamarai	**46.365**	1475	11.45	1	0	1.84	0	1	0.51		0	0	0	0	0	2	0.36	1.53	15.69
12	Vazhudalambudu Large & Small Tank	**83.185**	820	10.11	1	0	2.19	0	1	4.25		0	0	0	0	0	2	0.36	3	19.91
13	Paranambedu Tank	**98.23**	1790	14.6	1	0	2.35	0	1	2.79		0	0	0	0	0	2	0.36	1.22	21.32
14	Sombattu Tank	**463.37**	3200	23.1	2	0	3.8	0	2	7.33		0	0	0	0	0	2	0.36	3.02	37.61
15	Enadimelpakkam Tank	**153.65**	1490	12.87	2	0	6.09	0	2	10.81		0	0	0	0	0	2	0.36	3.86	33.99
	Providing Bed bar																		61	1.97
	Total	**2259**	**25515**	**223.77**	**23**	**0**	**54.5**	**0**	**20**	**67.52**	**13200**	**15.61**	**0**	**0**	**0**	**0**	**26**	**4.68**	**35.29**	**403.36**

Package No. 7

Sl. No.	Name of Tank / Anicut	Ayacut in Hectare	Bund		Sluice			Weir			Supply Channel Desilting		Supply Channel lining		Anicut Repairs		Measuring Device		Others (Inlet, Culvert, etc.)	Amount in Lakhs
			Length	Amt.	Re cons No	Re pair No	Amt.	Re cons No	Re pair No	Amt.	Length	Amt.	Length	Amt.	No	Amt		Amt		
1	Athupakkam Large Tank		670	6.2	2	0	3.98	0	1	1.48			0	0	0	0	2	0.36	0.96	12.98
2	Authupakkam Kannaputheri Small	**175.96**	930	7.31	1	0	1.88	0	2	6.57	1500	0	0	0	0	0	1	0.18	1.45	17.39
3	Ayanallur Large Tank	**258.91**	3480	31.94	2	0	5.06	0	3	7.44	1000	1.97	0	0	0	0	2	0.36	2.85	49.62
4	Ayanallur Small Tank	**157.41**	1460	14.71	1	0	3.94	0	1	2.66	1000	1.51	0	0	0	0	1	0.18	1.71	24.71
5	Chinnasoliambakkam Ochan Thangal	**83.585**	900	8.33	2	0	3.89	0	1	4.42	3000	3.83	0	0	0	0	1	0.18	2.9	23.55
6	Kuruviagaram Tank	**272.66**	2190	18.64	3	0	6.16	0	1	5.87	2000	3	0	0	0	0	2	0.36	5.17	39.2
7	Melakalani Hissa Katteri	**198.52**	1830	16.45	2	0	5.68	0	1	3.87	2500	2.4	0	0	0	0	2	0.36	2.6	31.36
8	Rettambedu Tank	**215.16**	3340	28.2	1	0	1.88	0	1	3.48	1200	1	0	0	0	0	2	0.36	2.89	37.81
9	Palaya Gummudi-poondi Thamarai	**0**	1140	12.72	1	0	3.36	0	1	2.54	1000	1.9	0	0	0	0	2	0.36	1.24	22.12
10	Sennavaram Tank	**51.685**	800	7.14	1	0	2.42	0	1	3.5		0	0	0	0	0	1	0.18	0.89	14.13

11	Thervali Kuttankulam Thangal & Thamarai	**46.365**	1475	11.45	1	0	1.84	0	1	0.51		0	0	0	0	0	2	0.36	1.53	15.69
12	Vazhudalambudu Large & Small Tank	**83.185**	820	10.11	1	0	2.19	0	1	4.25		0	0	0	0	0	2	0.36	3	19.91
13	Paranambedu Tank	**98.23**	1790	14.6	1	0	2.35	0	1	2.79		0	0	0	0	0	2	0.36	1.22	21.32
14	Sombattu Tank	**463.37**	3200	23.1	2	0	3.8	0	2	7.33		0	0	0	0	0	2	0.36	3.02	37.61
15	Enadimelpakkam Tank	**153.65**	1490	12.87	2	0	6.09	0	2	10.81		0	0	0	0	0	2	0.36	3.86	33.99
	Providing Bed bar																		61	1.97
	Total	**2259**	**25515**	**223.77**	**23**	**0**	**54.5**	**0**	**20**	**67.52**	**13200**	**15.61**	**0**	**0**	**0**	**0**	**26**	**4.68**	**35.29**	**403.36**

Package No. 8

Sl. No.	Name of Tank / Anicut	Ayacut in Hectare	Bund		Sluice			Weir			Supply Channel Desilting		Supply Channel lining		Anicut Repairs		Measuring Device	Amt	Others (Inlet, Culvert, etc.)	Amount in Lakhs
			Length	Amt.	Re cons No	Re pair No	Amt.	Re cons No	Re pair No	Amt.	Length	Amt.	Length	Amt.	No	Amt				
1	Aladu Periathangal	**62.32**	1030	9.28	2	0	3.86	0	1	7.83	500	0	0	0	0	0	2	0.32	0.83	22.12
2	Erisivan Tank	**41.2**	775	6.79	4	0	0.97	0	1	0.46	2000	3.8	0	0	0	0	2	0.32	1.34	13.68
3	Lakshmipuram Tank	**40.135**	720	6.83	4	0	7.12	0	1	3.3	1500	0	0	0	0	0	2	0.32	0.32	17.89
4	Kummangalam Tank	**96.085**	2830	26.24	3	0	9.83	0	1	4.79	3000	0	0	0	0	0	2	0.32	3.13	44.31
5	Manopuram Tank	**50.18**	910	8.36	3	0	5	0	1	3.3	1500	0	0	0	0	0	2	0.32	0.97	17.95
6	Kumara sirulapakkam	**129.4**	2335	16.68	4	0	7.32	0	3	5.45	1800	1.65	0	0	0	0	2	0.32	10.77	42.19
7	Perumbedu	**318.44**	4300	37.48	4	0	2.73	0	2	1.45	5000	7.16	0	0	0	0	2	0.32	3.28	52.42
8	Asanabudur	**99.79**	3885	34.48	4		1.21	0	2	2.9	2000	0	0	0	0	0	2	0.32	9.49	48.4
9	Eliambedu Tank	**97.055**	3020	29.24	3		6.73	0	1	4.69	2000	0	0	0	0	0	2	0.32	1.46	42.44
10	Guduvancheri Hissa Tank	**136.63**	2940	24.14	6		10.2	0	2	8.28	1000	1.07	0	0	0	0	2	0.32	5.71	49.73
11	Kattavoor Hissa Tank	**314.85**	3860	34.51	6		10.6	0	1	3.95	1250	1.74	0	0	0	0	2	0.32	2.33	53.4
12	Thadaperumba-kkam Tank	**208.41**	Work done under Part II Scheme																	0

13	Aladu Tank	**113.31**	Work done under Part II Scheme																	0
14	LAKSHMIPURAM ANICUT										4600	4.77			1	0			0	4.77
	Providing Bed bar																		123	3.61
	Total	**1708**	**26605**	**234.03**	**43**	**0**	**65.5**	**0**	**16**	**46.4**	**26150**	**20.19**	**0**	**0**	**1**	**0**	**22**	**3.52**	**39.63**	**412.91**

Package No. 9

Sl. No.	Name of Tank / Anicut	Ayacut in Hectare	Bund		Sluice			Weir			Supply Channel Desilting		Supply Channel lining		Anicut Repairs		Measuring Device	Amt	Others (Inlet, Culvert, etc.)	Amount in Lakhs
			Length	Amt.	Re cons No	Re pair No	Amt.	Re cons No	Re pair No	Amt.	Length	Amt.	Length	Amt.	No	Amt				
1	Onbakkam Tank	**79.13**	1570	13.79	4	0	5.41	0	2	1.14			0	0	0	0	2	0.32	1.39	22.05
2	Sitrarusur Tank	**43.8**	1530	11.15	1	0	2	0	1	0.66			0	0	0	0	2	0.32	0.85	14.98
3	Thiruppalaivanam Tank	**152.63**	2615	23.8	4	0	5.6	0	3	0.9	1500	1.75	0	0	0	0	2	0.32	2.45	34.82
4	Vembedu Tank	**73.61**	2735	24.62	4	0	0	0	1	0.26	2000	1.42	0	0	0	0	2	0.32	1.75	28.37
5	Vidathandalam Tank	**65.97**	2100	16.99	4	0	5.78	0	1	1.46	500	0	0	0	0	0	2	0.32	2.19	26.74
6	Applavaram Tank	**53.125**	1555	14.92	2	0	4	0	2	0	1500	0	0	0	0	0	2	0.32	1.3	20.54
7	Andavoyal Tank	**49.475**	2635	25.43	3	0	5.69	0	2	6.35	1200	0	0	0	0	0	2	0.32	2.34	40.13
8	Arasur Tank	**91.315**	4590	34.16	3	0	2.05	0	1	0.31	1700	0	0	0	0	0	2	0.32	0.15	36.99
9	Medur Large Tank		6875	67.3	8	0	19.5	0	2	7.19	10000	7.94	0	0	0	0	2	0.32	4.98	107.27
10	Medur Krishnan Thangal	**811.82**	770	6.56	2	0	1.66	0	1	0			0	0	0	0	2	0.32	0.63	9.17
	Providing Bed bar																		93	3
	Total	**1421**	**26975**	**238.72**	**35**	**0**	**51.7**	**0**	**16**	**18.27**	**18400**	**11.11**	**0**	**0**	**0**	**0**	**20**	**3.2**	**18.03**	**344.06**

Package No. 10

Sl. No.	Name of Tank / Anicut	Ayacut in Hectare	Bund		Sluice			Weir			Supply Channel Desilting		Supply Channel lining		Anicut Repairs		Measuring Device		Others (Inlet, Culvert, etc.)	Amount in Lakhs
			Length	Amt.	Re cons No	Re pair No	Amt.	Re cons No	Re pair No	Amt.	Length	Amt.	Length	Amt.	No	Amt		Amt		
1	Annamalaicheri Large Tank		3785	27.01	1	0	1.84	0	1	0.29	0	0	0	0	0	0	3	0.48	1.12	30.74
2	Annamalaicheri Small Tank	**121.38**	945	7.66	2	0	1.68	0	1	0.12	500	0	0	0	0	0	1	0.16	1.12	10.74
3	Avurivakkam Tank	**41.025**	2865	21.08	3	0	2.23	0	1	3.77	1000	0	0	0	0	0	2	0.32	2.19	29.59
4	Kanchivoyal Tank	**44.855**	1170	8.97	3	0	4.46	0	1	0	2000	2.19	0	0	0	0	2	0.32	1.14	17.08
5	Kolur Small Tank	**127.48**	2805	22.8	4	0	3.93	0	1	0.16	500	0	0	0	0	0	1	0.16	2.9	29.95
6	Kolur Large Tank	**268.61**	3320	24.42	6	0	7.04	0	1	0	1000	1.82	0	0	0	0	3	0.48	3.62	37.38
7	Poovami Large Tank		2805	18.13	2	0	2.37	0	1	0	3000	0	0	0	0	0	2	0.32	2.29	23.11
8	Poovami Small Tank	**135.54**	1005	7.49	0	0	0	0	0	0	500	0	0	0	0	0	1	0.16	1.51	9.16
9	Pakkam Large Tank	**84.985**	2560	19.44	2	0	3.27	0	1	0.5	1000	0	0	0	0	0	2	0.32	1.21	24.74
10	Sirulapakkam Large Tank	**129.41**	3020	23.86	4	0	4.54	0	1	0	2000	0	0	0	0	0	2	0.32	0.75	29.47

11	Sirulapakkam Small Tank		430	5.57	2	0	1.71	0	1	0	500	0	0	0	0	0	2	0.32	0.77	8.37
12	Avoor Large Tank	**283.29**	4835	34.22	6	0	4.93	0	1	0	2500	0	0	0	0	0	3	0.48	4.84	44.47
13	Avoor Chittheri	**30.76**	610	4.89	2	0	2.74	0	1	2.68	500	0	0	0	0	0	2	0.32	0.63	11.26
	Providing Bed bar																		81	2.39
	Total	**1267**	**30155**	**225.54**	**37**	**0**	**40.7**	**0**	**12**	**7.52**	**15000**	**4.01**	**0**	**0**	**0**	**0**	**26**	**4.16**	**24.09**	**308.45**

Package No. 11

Sl. No.	Name of Tank / Anicut	Ayacut in Hectare	Bund		Sluice			Weir			Supply Channel Desilting		Supply Channel lining		Anicut Repairs		Measuring Device	Amt	Others (Inlet, Culvert, etc.)	Amount in Lakhs
			Length	Amt.	Re cons No	Re pair No	Amt.	Re cons No	Re pair No	Amt.	Length	Amt.	Length	Amt.	No	Amt				
1	Iluppakkam Tank	**96.38**	2350	19.71	2	0	9.47	0	0	0	1300	0	0	0	0	0	2	0.32	2.14	31.64
2	Kanganimedu Tank	**40.275**	1250	11.1	1	0	2.52	1	0	5.72	500	0	0	0	0	0	2	0.32	1	20.66
3	Kudinelvoyal Tank	**62.325**	2775	23.52	1	1	2.33	0	1	0.97	3000	5.22	0	0	0	0	2	0.32	2.09	34.45
4	Kumarancheri Tank	**66.115**	2670	22.26	1	0	2.1	2	0	6.53	1500	5.81	0	0	0	0	2	0.32	1.46	38.48
5	Panappakkam Tank	**99.39**	3105	26.8	2	0	4.36	0	1	0.5	1500	6.87	0	0	0	0	2	0.32	1.22	40.07
6	Periaveppathur Large Tank		2410	19.36	3	0	4.81	1	1	4.33	1500	2.73	0	0	0	0	2	0.32	1.64	33.19
7	Periaveppathur Thangal	**138.5**	2010	18.71	3	0	6.26	0	1	3.29	1500	0	0	0	0	0	2	0.32	1.35	29.93
8	Periyakarumbur Hissa Tank	**202.67**	4225	28.84	3	2	7.43	1	0	5.08	5000	0	0	0	0	0	2	0.32	4.27	45.94
9	Periaykarumbur Small Tank	**44.32**	715	6.78	0	0	0	0	0	0	500	0	0	0	0	0	2	0.32	0.53	7.63
10	Seliambedu Aleri	**71.625**	1555	12.46	0	2	1.94	0	1	0.1	500	0	0	0	0	0	2	0.32	1.2	16.02
11	Seganyam Large Tank	**166.19**	2575	21	2	1	6.39	1	0	6.12	3000	2.25	0	0	0	0	2	0.32	1.53	37.61

12	Seganyam Small Tank		1975	8.32	0	0	0	0	0	0	600	0	0	0	0	0	2	0.32	0.63	9.27
13	Umippedu Tank	**88.02**	1495	12.65	2	0	4.7	0	1	0	1000	0	0	0	0	0	2	0.32	1.66	19.33
14	Keerapakkam Tank	**67.58**	Work done under NABARD																	0
15	Kallur Tank	**182.51**	Work done under NABARD																	0
16	Uppunelvoyal Tank	**118.57**	Work done under NABARD																	0
17	Pallipalayam Tank	**91.86**	Work done under NABARD																	0
	Providing Bed bar																		108	3.1
	Total	**1536**	**29110**	**231.51**	**20**	**6**	**52.3**	**6**	**6**	**32.64**	**21400**	**22.88**	**0**	**0**	**0**	**0**	**26**	**4.16**	**20.72**	**367.32**

Package No. 12

Sl. No.	Name of Tank / Anicut	Ayacut in Hectare	Bund		Sluice			Weir			Supply Channel Desilting		Supply Channel lining		Anicut Repairs		Measuring Device		Others (Inlet, Culvert, etc.)	Amount in Lakhs
			Length	Amt.	Re cons No	Re pair No	Amt.	Re cons No	Re pair No	Amt.	Length	Amt.	Length	Amt.	No	Amt		Amt		
1	Annupampattu Thangal	**234.67**	1150	12.71	1	0	1.76	1	0	3.7	1050	7.05	0	0	0	0	2	0.32	0.93	26.47
2	Thangalperumbulam Tank	**195.74**	2780	30.06	2	0	3.98	1	0	5.06		0	0	0	0	0	2	0.32	2.46	41.88
3	Vannipakkam Large Tank		6455	32.13	0	0	0	0	0	0	1350	0	0	0	0	0	2	0.32	1.99	34.44
4	Vannipakkam Small Tank	**200.89**	950	9.89	1	0	1.98	0	0	0	1250	0	0	0	0	0	2	0.32	1.06	13.25
5	Vellur Amman Eri	**199.34**	1640	18.93	2	0	3.85	1	0	5.36	1250	4.64	0	0	0	0	2	0.32	2.32	35.42
6	Vellur Palla Eri	**53.825**	3040	34.66	2	0	4.37	1	0	10.06	1250	5.6	0	0	0	0	2	0.32	3	58.01
7	Devadhanam Tank	**273.55**	2355	23.48	2	0	5.37	1	0	15.01	1300	2.84	0	0	0	0	2	0.32	2.64	49.66
8	Atherayamangalam Tank	**122.6**	1625	18.72	1	0	1.99	0	0	0	1300	0	0	0	0	0	2	0.32	1.57	22.6
9	Elavambedu Tank	**262.32**	1370	16.09	2	0	3.63	1	0	4.53	2000	0	0	0	0	0	2	0.32	1.46	26.03
10	Prelayambakkam Tank	**196.46**	2800	28.36	2	0	5.18	0	0	0	2950	0	0	0	0	0	2	0.32	2.77	36.63

11	Kadapakkam Large		Work done under NABARD																	
12	Kadapakkam Small Tank	**107.4**	1875	18.54	1	0	1.94	1	0	4.28		0	0	0	0	0	2	0.32	3.45	28.53
13	Sirupalverkadu Seepaneri		2105	19.4	0	0	0	1	0	6.16			0	0	0	0	2	0.32	3.12	29
14	Sirupalverkadu Araneri	**56.875**	900	10.57	1	0	1.93	0	0	0	3050	0	0	0	0	0	2	0.32	0.93	13.75
15	Vanjivakkam Large & Small	**224.17**	6445	71.9	2	0	4.98	1	0	5.18	3050	7.45	0	0	0	0	2	0.32	6.27	96.1
	Providing Bed bar																		66	2.31
	Total	**2128**	**35490**	**345.44**	**19**	**0**	**41**	**9**	**0**	**59.34**	**19800**	**27.58**	**0**	**0**	**0**	**0**	**28**	**4.48**	**33.97**	**514.08**

Insfrastructure - A B S T R A C T

(Amount in Lakhs)

Name of Package	Ayacut in Hectare	Bund		Sluice			Weir			Supply Channel Desilting		Supply Channel lining		Anicut Repairs		Measuring Device		Others (Inlet, Culvert, etc.)	bed bar	Amount in Lakhs
		Length	Amt.	Recon No	Repair No	Amt.	Recon No	Repair No	Amt.	Length	Amt.	Length	Amt.	No	Amt	No	Amt		Amt	
Package No. 1	**1574.265**	**22063**	**195.42**	**24**	**0**	**73.74**	**0**	**17**	**61.52**	**22500**	**26.11**	**0**	**0**	**0**	**0**	**17**	**3.06**	**17.72**	**3.73**	**381.30**
Package No. 2	**1885.55**	**18469**	**149.06**	**32**	**0**	**99.31**	**0**	**16**	**71.98**	**29800**	**42.61**	**900**	**48**	**0**	**0**	**32**	**5.76**	**35.04**	**5.95**	**457.71**
Package No. 3	**2417.37**	**24551**	**233.28**	**36**	**0**	**104.98**	**0**	**21**	**91.84**	**26700**	**20.57**	**0**	**0**	**0**	**0**	**35**	**6.3**	**63.94**	**4.24**	**525.15**
Package No. 4	**1928.055**	**27860**	**224.05**	**26**	**6**	**86.11**	**2**	**14**	**43.37**	**18100**	**17.8**	**0**	**0**	**0**	**0**	**27**	**4.86**	**34.26**	**2.28**	**412.73**
Package No. 5	**1387.2**	**22713**	**230.75**	**20**	**2**	**48.72**	**0**	**10**	**16.14**	**15515**	**18.23**	**0**	**0**	**0**	**0**	**24**	**4.32**	**25.97**	**2.26**	**346.39**
Package No. 6	**2807.87**	**26910**	**226.19**	**16**	**0**	**33.84**	**0**	**15**	**55.99**	**29500**	**26.1**	**0**	**0**	**1**	**66.45**	**16**	**2.88**	**32.96**	**5.00**	**449.41**
Package No. 7	**2258.66**	**25515**	**223.77**	**23**	**0**	**54.52**	**0**	**20**	**67.52**	**13200**	**15.61**	**0**	**0**	**0**	**0**	**26**	**4.68**	**35.29**	**1.97**	**403.36**
Package No. 8	**1707.805**	**26605**	**234.03**	**43**	**0**	**65.53**	**0**	**16**	**46.4**	**26150**	**20.19**	**0**	**0**	**1**	**0**	**22**	**3.52**	**39.63**	**3.61**	**412.91**
Package No. 9	**1420.87**	**26975**	**238.72**	**35**	**0**	**51.73**	**0**	**16**	**18.27**	**18400**	**11.11**	**0**	**0**	**0**	**0**	**20**	**3.2**	**18.03**	**3.00**	**344.06**
Package No: 10	**1267.33**	**30155**	**225.54**	**37**	**0**	**40.74**	**0**	**12**	**7.52**	**15000**	**4.01**	**0**	**0**	**0**	**0**	**26**	**4.16**	**24.09**	**2.39**	**308.45**
Package No: 11	**1536.325**	**29110**	**231.51**	**20**	**6**	**52.31**	**6**	**6**	**32.64**	**21400**	**22.88**	**0**	**0**	**0**	**0**	**26**	**4.16**	**20.72**	**3.10**	**367.32**
Package No: 12	**2127.815**	**35490**	**345.44**	**19**	**0**	**40.96**	**9**	**0**	**59.34**	**19800**	**27.58**	**0**	**0**	**0**	**0**	**28**	**4.48**	**33.97**	**2.31**	**514.08**
Total	**22319.115**	**316416**	**2757.8**	**331**	**14**	**752.49**	**17**	**163**	**572.5**	**256065**	**252.8**	**900**	**48**	**2**	**66.45**	**299**	**51.4**	**381.62**	**39.84**	**4922.87**

B. WRO COST TABLE

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
I. Tank Component				
1	Strengthening of Tank Bund	**316. 416**KM	**2757.76**	
2	Reconstruction of Tank Sluice	332 Nos	**752.5**	
3	Repairs to Tank Sluice	15 Nos		
4	Reconstruction of Tank Weir	17 Nos	**572.5**	
5	Repairs to Tank Weir	161 nos		
6	Desilting of Supply Channels	**256. 06**Km	**252.80**	
7	Lining of Supply Channels	0.900 KM	48.00	
8	Demarcation of Boundaries & Encroachment eviction, Others(Inlets,outlets,culverts etc)	158 Nos	381.60	
9	Repairs to Anicuts	2 Nos	66.50	
10	Measuring Devices	299Nos	51.40	
11	Providing Bed Bar		39.84	
	Total		**4922.87**	
II. Non Tank Component			**Nil**	
	Environment Cell		**18.50**	
	Ground Water		-------	
	Total		**4941.37**	

1). Tank component = 4941.37 lakhs

2). Non-Tank component = 0 lakhs

Total = 4941.37 Lakhs

C. (PHYSICAL AND FINANCIAL PROGRAM)

Sl. No	Description	I Year		II Year		Total		
		Quantity	Amount in Lakhs	Quantity	Amount in Lakhs	Quantity		Amount in Lakhs
1	**Anicuts**							
a	Repairs to Anicuts	1 No	12.00	1 No	60.20	2	Nos	66.50
2	**Tanks**							
a	Strengthening of Tank Bund	126.00Km	936.00	190.416Km	1821.76	316.416	KM	2757.76
b	Recostruction of sluices	143 Nos	331.00	189 Nos	421.50	332	Nos	752.50
c	Repairs to sluices	7 Nos		8 Nos		15	Nos	
d	Reconstruction of weir	4 Nos	271.00	13Nos	301.50	17	Nos	572.50
e	Repairs to weir	79 Nos		82 Nos		161	Nos	
f	Desilting of supply channel	100 Km	114.00	156.06Km	138.80	256.06	KM	252.80
g	Lining the Supply Channel	0.500 Km	26.60	0.400 Km	21.40	0.900	KM	48.00
h	Demarcation of boundaries Demarcation of Boundaries & Encroachment eviction, Others(Inlets,outlets,culverts etc)	42%	160.30	58%	221.30	158	Nos	381.60
10	Measuring Devices	45%	23.00	55%	28.40	299	Nos	51.40
11	Providing Bed Bar	45%	18.00	55%	21.84			39.84
	Total		**1892.00**		**3030.87**			**4922.87**

ARANIYAR SUB BASIN – PACKAGE ABSTRACT

Sl.No.	Package	Amount in Lakhs
1	Package No.1	**381.30**
2	Package No.2	**457.71**
3	Package No.3	**525.15**
4	Package No.4	**412.73**
5	Package No.5	**346.39**
6	Package No.6	**449.41**
7	Package No.7	**403.36**
8	Package No.8	**412.91**
9	Package No.9	**344.06**
10	Package No.10	**308.45**
11	Package No.11	**367.32**
12	Package No.12	**514.08**
	Provision for Environment cell	**18.50**
	Total	**4941.37**

PACKAGE DETAILS

PACKAGE/CLUSTER NO 1

Sl.No	Name of Tank	Amount in Rs
1	Ammambakkam Tank	1527065
2	Ammambakkam ChellammaTank	1547250
3	Avicheri Chitteri	1487359
4	Seethanjeri Tank	1852786
5	Chellama Kandigai Kanigalagunta	1100253
6	Gunipalayam Pedda Cheruvu	2431056
7	Gunipalayam East Tank	1817461
8	Pennalurpet Chianna Cheruvu	516373
9	Pennalurpet Big Tank	2223690
10	Srinivasapuram Kasturi Naidu gunta	1120034
11	Srinivasapuram Pudueri	1480431
12	Puduchery Tank	2380365
13	Athilivakkam Tank & Perumal odai	1786646
14	Mambakkam Tank	2554893
15	Kalavai Tank	1363566
16	Perittivakkam Large & Small	2084452
17	Katchur Netteri	3888926
18	Mamandur Kottavakkam Tank	1156985
19	Pondavakkam Moongani Thangal	890503
20	Velagapuram Big Tank	2706346
21	Velagapuram Nagaleri	1534603
22	Providing Measuring Device	306000
23	Providing Bed Bar	373481
	Total	**38130000**

PACKAGE DETAILS

PACKAGE/CLUSTER NO 2

Sl.No	Name of Tank	Amount in Rs
1	Suruttapalli Anicut	5543842
2	Lachivakkam Tank	3603380
3	Perandur Tank	4625404
4	Sengiagaram Tank	1765606
5	Sengiagaram Odai Thangal	1127029
6	Sengiagaram Singilikuppam	1443495
7	Uthukottai Hissa Tank	4823869
8	Kakkavakkam Hissa Tank	5521609
9	Sulaimeni Thodapatheri	1741839
10	Sengarai Hissa Tank	4339862
11	Sengarai Ammaneri Tank	838493
12	Sengarai Ayyaneri	1430688
13	Palavakkam Hissa Tank	5703598
14	Sirunai Erakulam Tank	761062
15	Palavakkam Kuppam Thangal	1330369
16	Providing Measuring Device	576000
	Providing Bed Bar	595687
	Total	**45771000**

PACKAGE DETAILS

PACKAGE/CLUSTER NO 3

Sl.No	Name of Tank	Amount in Rs
1	82. Panapakkam Tank	4462515
2	Alapakkam Tank	2151635
3	Enambakkam Tank	3370779
4	Kalpattu Tank	3722136
5	Malandur Tank	2951549
6	82. Panappakkam Chitteri	4170143
7	Vadamadurai Tank	6297113
8	Ariyapakkam Tank	2084993
9	Athupakkam Tank	5285082
10	Kannigaiper Tank	8947732
11	Manjankaranai Small Tank	1307823
12	43. Panappakkam Tank	4270589
13	Sennankaranai Tank	2439599
14	Providing Measuring Device	630000
	Providing Bed Bar	424065
	Total	**52515000**

PACKAGE DETAILS

PACKAGE/CLUSTER NO 4

Sl.No	Name Of Tank	Amount in Rs
1	Arani Tank	5350338
2	Chinnambedu Large Tank	9443207
3	Chinnambedu Small Tank	1791632
4	Durainallur Tank	2611928
5	Kilmeni Tank	3095431
6	Peruncheri Tank	874984
7	Pondavakkam Pudhu Eri	1722188
8	Vadakkunallur Tank	2588612
9	Vairavankuppam Tank	2238921
10	Akkarapakkam Tank	4429697
11	Rallapadi Tank	1220208
12	Tirunilai Tank	2991681
13	Puduvoyal Tank	2200613
14	Flow measuring Devices	486000
	Providing Bed Bar	228367
	Total	**41273000**

PACKAGE DETAILS

PACKAGE/CLUSTER NO 5

Sl.No	Name Of Tank	Amount in Rs
1	Bandikavanur Big Tank	1968850
2	Bandikavanur Chitheri	868798
3	Maduravasal Tank	5035708
4	Panayancheri Tank	5693935
5	Velappakkam Tank	2033273
6	Karani Tank	2733505
7	Mangalam Tank	1165003
8	Nelvoy Tank	2731178
9	Paleswaram Tank	1815111
10	Serpedu Tank	1508542
11	Kadanallur Tank	1832750
12	Amirthanallur Tank	3257922
13	Mukkarambakkam	3372740
14	Flow Measuring devices	396000
	Providing Bed Bar	226838
	Total	**34639000**

PACKAGE DETAILS

PACKAGE/CLUSTER NO 6

Sl.No	Name of Tank	Amount in Rs
1	A.N. Kuppam Tank	3477000
2	Erukkuvoy Hissa Tank	2638000
3	Gummudipoondi Hissa Large Tank	4637000
4	Gummudipoondi Perumanjeri Tank	1345000
5	Kannalur Pudu Eri	2136000
6	Kilmudalambedu Tank	4731000
7	Panpakkam Large Tank	3732000
8	Panpakkam Small Tank	1601000
9	Peruvoyal Tank	3164000
10	Peruvoyal Putheri	2111000
11	Kanakambakkam Tank	1890000
12	Kollur Tank	1549000
13	Kilikodi Tank	3277000
14	A.N. Kuppam Anicut	7865000
15	Measuring device	288000
	Providing Bed Bar	500357
	Total	**44941000**

PACKAGE DETAILS

PACKAGE/CLUSTER NO 7

Sl.No	Name of Tank	Amount in Rs
1	Athupakkam Large Tank	1261705
2	Authupakkam Kannaputheri Small Tank	1720410
3	Ayanallur Large Tank	4926518
4	Ayanallur Small Tank	2453371
5	Chinnasoliambakkam Ochan Thangal	2337823
6	Kuruviagaram Tank	3884551
7	Melakalani Hissa Katteri	3098524
8	Rettanbedu Tank	3745288
9	Palaya Gummudipoondi Thamarai	2175160
10	Sennavaram Tank	1395016
11	Thervali Kuttankulam Thangal & Thamarai	1532789
12	Vazhudalambudu Large & Small Tank	1955144
13	Paranambedu Tank	2095993
14	Sombattu Tank	3725694
15	Enadimelpakkam Tank	3363784
16	Flow Measuring devices	468000
	Providing Bed Bar	196978
	Total	**40336000**

PACKAGE DETAILS

PACKAGE/CLUSTER NO 8

Sl.No	Name of Tank	Amount in Rs
1	Aladu Periya Thangal Tank	2178622
2	Erisivan Tank	1335091
3	Lakshmipuram Tank	1757061
4	Kummangalam Tank	4397942
5	Manopuram Tank	1763240
6	Kumarasirulapakkam Tank	4186619
7	Perumbedu Tank	5207987
8	Asanabudur Tank	4808320
9	Eliambedu Tank	4211527
10	Guduvancheri Tank	4940924
11	Kattavur Tank	5307402
12	Lakshmipuram Anicut	477555
13	Flow Measuring devices	357797
	Providing Bed Bar	361476
	Total	**41291000**

PACKAGE DETAILS

PACKAGE/CLUSTER NO 9

Sl.No	Name of Tank	Amount in Rs
1	Onbakkam Tank	2173280
2	Sitrasur Tank	1465484
3	Thiruppalaivanam Tank	3449781
4	Vembedu Tank	2805195
5	Vidathandalam Tank	2641711
6	Appalavaram Tank	2022003
7	Andavoyal Tank	3980035
8	Arasur Tank	3666967
9	Medur Large Tank	10665532
10	Medur Krishnan Thangal Tank	884187
11	Flow Measuring devices	352100
	Providing Bed Bar	300311
	Total	**34406000**

PACKAGE DETAILS

PACKAGE/CLUSTER NO 10

Sl.No	Name of Tank	Amount in Rs
1	Annamalaicheri Large Tank	3025703
2	Annamalaicheri Small Tank	1058138
3	Avurivakkam Tank	2926693
4	Kanchivoyal Tank	1675629
5	Kolur Small Tank	2978841
6	Kolur Large Tank	3689985
7	Poovami Large Tank	2279978
8	Poovami Small Tank	900192
9	Pakkam Large Tank	2442446
10	Sirulapakkam Large Tank	2915078
11	Sirulapakkam Small Tank	805395
12	Avur large Tank	4399099
13	Avur Chitheri	1093194
14	Flow Measuring devices	416370
	Providing Bed Bar	239703
	Total	**30845000**

PACKAGE DETAILS

PACKAGE/CLUSTER NO 11

Sl.No	Name of Tank	Amount in Rs
1	Ilupakkam Tank	3132627
2	Kanganimedu Tank	2033929
3	Kudinelvoyal Tank	3412877
4	Kumarancheri Tank	3815715
5	Panapakkam Tank	3974825
6	Periyavepathur Large Tank	3287290
7	Periyavepathur Thangal Tank	2961027
8	Periyakarumbur Hissa Tank	4562144
9	Periyakarumbur Small Tank	731615
10	Seliambedu Aleri	1570076
11	Seganyam Large Tank	3728887
12	Seganyam Small Tank	895285
13	Umippedu Tank	1900455
14	Flow Measuring devices	416199
	Providing Bed Bar	310108
	Total	**36732000**

PACKAGE DETAILS

PACKAGE/CLUSTER NO 12

Sl.No	**Name of Tank**	Amount in Rs
1	**Annupampattu Thangal**	2614807
2	**Thangalperumbulam Tank**	4157082
3	**Vannipakkam Large Tank**	3413440
4	**Vannipakkam Small Tank**	1292905
5	**Vellur Amman Eri**	3509921
6	**Vellur Palla Eri**	5768429
7	**Devadhanam Tank**	4934296
8	**Atherayamangalam Tank**	2227802
9	**Elavambedu Tank**	2570562
10	**Prelayambakkam Tank**	3630305
11	**Kadapakkam Small Tank**	2821297
12	**Sirupalverkadu Seepaneri**	2867813
13	**Sirupalverkadu Araneri**	1342801
14	**Vanjivakkam Tank**	9577158
15	Flow Measuring devices	448595
	Providing Bed Bar	230934
	Total	**51408000**

TANK DETAILS WITH FREE BOARD PROVIDED

NAME OF SUB BASIN : ARANIYAR

SL.NO.	NAME OF THE TANK	MAXIMUM HEIGHT OF BUND	FREE BOARD		LENGTH OF BUND
			PROVIDED PREVIOUSLY	PROVIDED NOW	
1	Ammambakkam	3.50	0.90	1.50	760
2	Ammambakkam Chellamma	2.70	1.00	1.50	750
3	Avicheri Chitheri	2.60	1.20	1.50	700
4	Chellamma Kandigai Kanigala Kunda	2.50	1.10	1.50	690
5	Gunipalayam Peddha Cheruvu	3.00	0.90	1.50	1067
6	Gunipalayam East	2.90	1.00	1.50	1000
7	Seethanjeri	3.10	1.20	1.50	735
8	Pennalurpettai Chinna Cheruvu	1.80	0.90	1.50	1100
9	Pennalurpettai Big	3.10	1.00	1.50	712
10	Pudhucheri Tank	3.50	1.10	1.50	1707
11	Srinivasapuram Kasthuri Naidukunda	2.50	1.00	1.50	512
12	Srinivasapuram Putheri	2.20	0.90	1.50	700
13	Athilivakkam Tank	2.90	1.20	1.50	914
	Perumal Odai	1.80	0.90	1.50	915
14	Mamandur Kottavakkam Tank	2.60	1.00	1.50	700
15	Mambakkam Tank	3.70	1.10	1.50	1890
16	Kalavai Tank	2.90	1.00	1.50	470
17	Peritivakkam Large & Small Tank	3.15	0.90	1.50	1640
18	Katchur Natteri	2.70	0.90	1.50	2590
19	Pondavakkam Mukkani Thangal	2.10	1.00	1.50	680
20	Velekapuram Big Tank	3.40	1.20	1.50	1646

21	Velekapuram Nagaleri	2.60	1.10	1.50	1100
22	Latchivakkam Tank	2.80	0.90	1.50	2012
23	Perandur Tank	3.20	1.00	1.50	2426
24	Senjiagaram Tank	2.90	1.20	1.50	945
25	Senjiagaram Odai Thangal	2.40	0.90	1.50	427
26	Senjiagaram Singilikuppam Tank	2.90	1.00	1.50	640
27	Uthukottai Hissa Tank	3.40	1.10	1.50	1910
28	Kakkavakkam Hissa Tank	3.60	1.20	1.50	2652
29	Soolaimeni Thudapatheri	2.50	1.10	1.50	1265
30	Sengarai Hissa Tank	3.00	1.00	1.50	2499
31	Sengarai Ammaneri Tank	2.40	1.00	1.50	314
32	Sengarai Ayyaneri Tank	2.70	0.90	1.50	762
33	Palavakkam Hissa Tank	3.40	0.90	1.50	1707
34	Sirunai Errakulam Tank	2.90	1.00	1.50	360
35	Palavakkam Kuppam Thangal	2.50	1.10	1.50	550
36	82. Panapakkam Tank	3.60	1.00	1.50	2256
37	Alapakkam Tank	3.50	0.90	1.50	760
38	Enambakkam Tank	3.20	1.00	1.50	1567
39	Kalpattu Tank	3.00	0.90	1.50	1360
40	Malandur Tank	2.90	1.00	1.50	900
41	Panapakkam Chitheri	2.50	1.20	1.50	2422
42	Vadamadurai Tank	3.70	1.10	1.50	3095
43	Ariyapakkam Tank	2.80	1.20	1.50	1173
44	Athupakkam Tank	3.40	1.00	1.50	1707
45	Kannigaipair Tank	3.50	1.20	1.50	4562

46	Manjankaranai Small Tank	2.50	1.00	1.50	770
47	43. Panapakkam Tank	3.80	1.10	1.50	2256
48	Sennankaranai Tank	3.20	1.00	1.50	1244
49	Arani	3.80	1.20	1.50	3565
50	Chinnambedu large	4.60	0.90	1.50	5820
51	Chinnambedu small	2.90	0.90	1.50	1390
52	Durainallur	3.40	1.00	1.50	1995
53	Kilmeni	2.80	1.00	1.50	1630
54	Perunchery	2.60	0.90	1.50	591
55	Pondavakkam pudu	2.90	0.90	1.50	1189
56	Vadakkunallur	3.10	1.00	1.50	1845
57	Vairavankuppam	3.00	1.20	1.50	1675
58	Akkarapakkam	3.40	1.10	1.50	2580
59	Rallapadi large	3.10	0.90	1.50	1075
60	Tirunilai	3.20	1.00	1.50	2560
61	Puduvoyal	3.20	1.20	1.50	1463
62	Bandikavanur large	2.80	1.00	1.50	1405
63	Bandikavanur small	2.40	1.20	1.50	585
64	Maduravasal	3.50	1.15	1.50	3215
65	Panayancheri	3.30	1.10	1.50	3710
66	Velapakkam large	2.90	1.05	1.50	1680
67	Karani	3.10	0.90	1.50	1950
68	Mangalam	2.90	1.10	1.50	914
69	Nelvoy	3.20	1.00	1.50	1980
70	Paleswaram	2.50	1.00	1.50	1097

71	Serpedu	3.30	0.90	1.50	900
72	Kadanallur	2.40	0.90	1.50	1200
73	Amirthanallur	2.90	1.00	1.50	2286
74	Mukkarambakkam	3.30	1.20	1.50	2210
75	A.N. Kuppam Tank	3.50	1.10	1.50	2400
76	Erukkuvoy Tank	3.40	0.90	1.50	1750
77	Gummidipoondi Perumanjaneri	3.90	1.00	1.50	700
78	Gummidipoondi Hissa	4.20	1.20	1.50	3750
79	Kannalur Pudhu Eri	2.70	0.90	1.50	1400
80	Kanagambakkam	3.20	1.00	1.50	1200
81	Kollur Tank	3.40	0.90	1.50	1300
82	Kilikodi Tank	2.90	1.15	1.50	2286
83	Kilmudalambedu	3.20	1.20	1.50	3815
84	Panpakkam Large	4.20	1.00	1.50	2660
85	Panpakkam Small	2.70	1.00	1.50	730
86	Peruvoyal Tank	2.90	0.90	1.50	2190
87	Peruvoyal Putheri	2.50	1.20	1.50	1585
88	Athupakkam Large	3.30	1.20	1.50	671
	Athupakkam Kannaputheri	2.60	1.00	1.50	884
89	Ayyanallur Large	3.80	0.90	1.50	3475
90	Ayyanallur Small	2.40	0.90	1.50	1463
91	Chinnacholiambakkam Ochan Thangal	2.50	1.00	1.50	1224
92	Kuruviagaram Tank	3.30	1.20	1.50	2195
93	Melakalani Hissa	3.50	1.10	1.50	1830

94	Palaya Gummidipoondi Thamarai	3.10	0.90	1.50	1140
95	Rettambedu Tank	3.20	1.20	1.50	3340
96	Sennavaram Tank	3.30	0.90	1.50	770
97	Thervali Kuttankulam Thangal	2.80	1.00	1.50	975
	Thervali Thamarai	2.60	1.10	1.50	460
98	Vazhudalambedu Large & Small	3.40	1.20	1.50	1500
99	Paranambedu Tank	3.25	0.90	1.50	1800
100	Sombattu Tank	3.10	0.90	1.50	2650
101	Enathimelpakkam Tank	3.40	1.10	1.50	1990
102	Aladu periya thangal	2.70	1.20	1.50	1030
103	Erisivan	2.80	1.00	1.50	755
104	Kummangalam	2.70	0.90	1.50	2830
105	Lakshmipuram	2.60	0.90	1.50	720
106	Manopuram	2.80	1.00	1.50	910
107	Kumarasirlapakkam	3.10	1.20	1.50	2035
108	Perumbedu	3.80	1.10	1.50	4300
109	Asanabudur	3.70	0.90	1.50	3885
110	Eliambedu	3.50	1.00	1.50	3020
111	Guduvanjeri hissa	3.20	1.20	1.50	2940
112	Kattavur hissa tank	3.10	0.90	1.50	3860
113	Onbakkam	2.90	1.00	1.50	1570
114	Sitrasur	3.00	1.10	1.50	1530
115	Thiruppalaivanam	2.90	0.90	1.50	2615
116	Vembedu	3.20	1.20	1.50	2735
117	Vidathandalam	4.20	1.00	1.50	2100

118	Appalavaram	2.70	0.90	1.50	1555
119	Andavoyal	2.90	1.00	1.50	2635
120	Arasur	2.50	0.90	1.50	4590
121	Medur large & chitheri	3.80	0.90	1.50	6875
122	Medur krishnan thangal	3.20	1.00	1.50	770
123	Annamalaicheri large	3.30	1.20	1.50	3785
124	Annamalaicheri small	2.90	1.10	1.50	945
125	Avurivakkam	2.90	0.90	1.50	2865
126	Kanchivoyal	3.00	1.00	1.50	1160
127	Kolur small	3.20	1.20	1.50	2805
128	Kolur large	3.10	0.90	1.50	3320
129	Poovami large	2.80	1.00	1.50	2805
130	Poovami small	2.90	1.10	1.50	1005
131	Pakkam large	3.00	1.00	1.50	2165
132	Sirlapakkam large	2.90	1.20	1.50	3020
133	Sirlapakkam small	3.20	1.00	1.50	430
134	Avur large	4.20	1.00	1.50	4835
135	Avur chitheri	2.70	0.90	1.50	610
136	Ilupakkam	2.90	1.10	1.50	2350
137	Kanganimedu	2.50	1.20	1.50	1250
138	Kudinelvoyal	3.80	1.00	1.50	2775
139	Kumaranjeri	3.20	0.90	1.50	2670
140	Panapakkam	3.30	0.90	1.50	3105
141	Periyaveppathur Large	3.00	1.00	1.50	2410
142	Periyaveppathur Thangal	3.20	1.20	1.50	2010

143	Periyakarambur Hissa	3.20	1.10	1.50	4225
144	Priyakarambur small	3.10	0.90	1.50	415
145	Seliyambedu Aleri	3.00	1.00	1.50	1555
146	Segayam large	3.10	1.20	1.50	2575
147	Seganyam small	3.20	0.90	1.50	1975
148	Umippedu	2.90	1.00	1.50	1495
149	Anuppampattu thangal	2.50	1.10	1.50	1150
150	Athreyamangalam	3.80	1.20	1.50	1625
151	Devadanam	3.20	0.90	1.50	2355
152	Kadapakkam small	3.00	0.90	1.50	1875
153	Merattur	3.10	0.90	1.50	1615
154	Pralayambakkam	3.00	1.00	1.50	2800
155	Sirupalaverkadu seepaneri	3.10	1.20	1.50	2105
156	Sirupalaverkadu araneri	3.20	1.10	1.50	850
157	Thangalperumbulam	3.00	0.90	1.50	2780
158	Velur palla eri	3.10	1.00	1.50	3040
159	Velur ammaneri	2.90	1.20	1.50	1640
160	Vanjivakkam large& small	3.20	0.90	1.50	6455
161	Elavambedu	2.90	1.20	1.50	1370
162	Vannipakkam large	3.30	1.00	1.50	1880
163	Vannipakkam small	2.80	1.10	1.50	825

Aranier Sub basin

PACKAGE **1**

CALCULATION OF MACHINERIES REQUIREMENT

Bund

Hydraulic excavator & Tippers / Lorries	**24**	=	**6 Hours / Day**
(3 Nos. X 2 Loads / hour X 6 Hour X 4 m^3 / trip)		=	3456 m^3 / Day
For 1 month (20 Working days)	= 20 x 864 m^3		69120 m^3 / month
Total quantity of earth work		=	345279 m^3
Working period for the earth work		=	5 Months

Supply channel

Hydraulic excavator 11 Nos.	@ 100 m^3/day	
For 1 month (20 Working days)	= 11 Nos X 100 m3/ day X 20 days = 22000 m^3	
Total quantity of earth work	=157761 m^3	
Working period for the earth work	= 157761 / 22000	= 7 months

Machinaries required for earth work:

1. Hydraulic excavator (in Nos.)	14
2. Tippers / Lorries (in Nos.)	28
3. Power roller (in Nos.)	7
4. Vibrated compactor (in Nos.)	7
5. Water lorries (in Nos.)	7

Mixer machine	2 m^3 / Hour	For 6 Hours/ Day	12 m3/ day
Total quantity of concrete	4041		
Mixer machine required	5 Nos		

Material converyence		**Tippers / Lorries**	
Cement	10MT / Trip	1 Trip / day	10MT / day
Sand	5.66m^3 / Trip	2 Trip / day	11.32m^3 / day
Metal / stone	5.60m^3 / Trip	3 Trip / day	16.80m^3 / day

Total quantity of cement	MT	
Lorry required for conveyence	1019 / 10	102 Lorries
Total quantity of sand	m3	
Lorry required for conveyence	1952 / 11.20	174 Lorries
Total quantity of Metal	m3	
Lorry required for conveyence	3646 / 16.80	217 Lorries

Tipper / Lorries for conveyence of materials — 4 Nos. for 20days for 7 months

ARANIYAR SUB BASIN - PACKAGE NO. I

FORM II

REQUIREMENT OF EQUIPMENTS AND MATERIALS

PACKAGE NO.	EQUIPTMENT REQUIRED IN NUMBRS						MATERIALS REQUIRED				
	HYDRAULIC EXCAVATER	POWER ROLLER	VIBARATED COMPACTER	TIPPER / LORRY	WATER LORRY	CONCRETE MIXER MACHINE	CEMENT IN M T	SAND IN M^3	METAL 40 MM IN M^3	METAL 20 MM IN M^3	FUEL
01 / IAMWARM / WRO / ARNI / WORKS / II / (2009 - 10)	14	7	7	28	7	5 Nos	1016	1947	1064	2573	

ARANIYAR SUB BASIN - PACKAGE No -I

CONSTRUCTION METHODOLOGY

Sl. No.	Descriptions	Working Months															Rainy Season			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Total
	Earth work excavation																			
1	Scrub jugle	**41732**	**41732**																	83464
2	Bund		**33220**	**41524**	**33220**	**33220**	**24915**													166097
3	Channel		**17766**	**26648**	**26648**	**35531**	**35531**	**19542**	**15989**											177656
4	Foundation		**386**	**772**	**964**	**579**	**579**	**578**												3858
	Concrete																			
5	M 7.5 Grade		**72**	**144**	**181**	**108**	**108**	**108**												722
6	M 10 Grade			**97**	**194**	**243**	**146**	**146**	**145**											970
7	M 15 Grade			**113**	**227**	**283**	**170**	**170**	**170**											1133
8	Centering			**413**	**826**	**1032**	**619**	**619**	**619**											4128
9	Screw Gearing Arranagements									**4**	**5**	**5**	**9**							18
10	plastering						**486**	**486**	**486**	**486**	**486**	**486**	**486**	**486**	**486**	**486**				4860

Aranior Sub basin

PACKAGE 2

CALCULATION OF MACHINERIES REQUIREMENT

Bund

Hydraulic excavator & Tippers / Lorries	**21**	=	**6 Hours / Day**
(3 Nos. X 2 Loads / hour X 6 Hour X 4 m^3 / trip)		=	3024 m^3 / Day
For 1 month (20 Working days)	= 20 x 864 m^3		60480 m^3 / month
Total quantity of earth work		=	300213 m^3
Working period for the earth work		=	5 Months

Supply channel

Hydraulic excavator 11 Nos.	@ 100 m^3/day	
For 1 month (20 Working days)	= 24 Nos X 100 m3/ day X 20 days = 48000 m^3	
Total quantity of earth work	=335770 m^3	
Working period for the earth work	= 335770 / 48000	= 7 months

Machinaries required for earth work:

1. Hydraulic excavator (in Nos.)	27
2. Tippers / Lorries (in Nos.)	26
3. Power roller (in Nos.)	5
4. Vibrated compactor (in Nos.)	5
5. Water lorries (in Nos.)	5
6.Table Vibrator (in Nos,)	1

	2 m^3 / Hour		For 6 Hours/ Day	
Mixer machine	=		=	12 m3/ day
Total quantity of concrete	5654			
Mixer machine required	7 Nos			

Material converyence			**Tippers / Lorries**	
			1 Trip / day	
Cement	10MT / Trip	=	=	10MT / day
			2 Trip / day	
Sand	5.66m^3 / Trip	=	=	11.32m^3 / day
			3 Trip / day	
Metal / stone	5.60m^3 / Trip	=	=	16.80m^3 / day

Total quantity of cement	MT	
Lorry required for conveyence	1386 / 10	139 Lorries
Total quantity of sand	m3	
Lorry required for conveyence	2666 / 11.20	238 Lorries
Total quantity of Metal	m3	
Lorry required for conveyence	5098 / 16.80	303 Lorries

Tipper / Lorries for conveyence of materials — 5 Nos. for 20days for 7 months

ARANIYAR SUB BASIN - PACKAGE NO. 2

FORM II

REQUIREMENT OF EQUIPMENTS AND MATERIALS											
PACKAGE NO.	EQUIPTMENT REQUIRED IN NUMBRS						MATERIALS REQUIRED				
	HYDRAULIC EXCAVATER	POWER ROLLER	VIBARATED COMPACTER & TABLE VIBERATOR	TIPPER / LORRY	WATER LORRY	CONCRETE MIXER MACHINE	CEMENT IN M T	SAND IN M^3	METAL 40 MM IN M^3	METAL 20 MM IN M^3	FUEL
02 / IAMWARM / WRO / ARNI / WORKS / II / (2009 - 10)	27	5	5 & 1	26	5	7 Nos	1,383	2,662	1,053	4,035	

ARANIYAR SUB BASIN - PACKAGE No -2

CONSTRUCTION METHODOLOGY

Sl. No.	Descriptions	Working Months															Rainy Season			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Total
	Earth work excavation																			
1	Scrub jugle	**50580**	**50580**																	101160
2	Bund		**33261**	**41576**	**33261**	**33261**	**24945**													166302
3	Channel		**20216**	**30324**	**30324**	**40431.6**	**40432**	**22237**	**18194**											202158
4	Foundation		**418**	**836**	**1045**	**627**	**627**	**626**												4178
	Concrete																			
5	M 7.5 Grade		**98**	**197**	**246**	**148**	**148**	**147**												983
6	M 10 Grade			**102**	**204**	**255**	**153**	**153**	**153**											1020
7	M 15 Grade			**159**	**318**	**397**	**238**	**238**	**238**											1587
8	Centering			**441**	**882**	**1103**	**662**	**662**	**662**											4411
9	Screw Gearing Arranagements									**5**	**8**	**8**	**13**							26
10	plastering						**649**	**649**	**649**	**649**	**649**	**649**	**649**	**649**	**649**	**649**				6487

Aranier Sub basin

PACKAGE 3

CALCULATION OF MACHINERIES REQUIREMENT

Bund

Hydraulic excavator & Tippers / Lorries	**24**	=	**6 Hours / Day**
(4 Nos. X 2 Loads / hour X 6 Hour X 4 m^3 / trip)		=	4608 m^3 / Day
For 1 month (20 Working days)	= 20 x 4608 m^3		92160 m^3 / month
Total quantity of earth work		=	441193 m^3
Working period for the earth work		=	5 Months

Supply channel

Hydraulic excavator 11 Nos.	@ 100 m^3/day	
For 1 month (20 Working days)	= 24 Nos X 100 m3/ day X 20 days = 48000 m^3	
Total quantity of earth work	=336203 m^3	
Working period for the earth work	= 336203 / 48000	= 7 months

Machinaries required for earth work:

1. Hydraulic excavator (in Nos.)	28
2. Tippers / Lorries (in Nos.)	29
3. Power roller (in Nos.)	4
4. Vibrated compactor (in Nos.)	4
5. Water lorries (in Nos.)	4

	2 m^3 / Hour		For 6 Hours/ Day	
Mixer machine	=		=	12 m3/ day
Total quantity of concrete	5471			
Mixer machine required	7 Nos			
Material converyence			**Tippers / Lorries**	
Cement	10MT / Trip	=	1 Trip / day =	10MT / day
Sand	5.66m^3 / Trip	=	2 Trip / day =	11.32m^3 / day
Metal / stone	5.60m^3 / Trip	=	3 Trip / day =	16.80m^3 / day

Total quantity of cement	MT	
Lorry required for conveyence	1410 / 10	141 Lorries
Total quantity of sand	m3	
Lorry required for conveyence	2593 / 11.20	232 Lorries
Total quantity of Metal	m3	
Lorry required for conveyence	4924 / 16.80	293 Lorries

Tipper / Lorries for conveyence of materials — 5 Nos. for 20days for 7 months

ARANIYAR SUB BASIN - PACKAGE NO. 3

FORM II

REQUIREMENT OF EQUIPMENTS AND MATERIALS											
PACKAGE NO.	EQUIPTMENT REQUIRED IN NUMBRS						MATERIALS REQUIRED				
	HYDRAULIC EXCAVATER	POWER ROLLER	VIBARATED COMPACTER	TIPPER / LORRY	WATER LORRY	CONCRETE MIXER MACHINE	CEMENT IN M T	SAND IN M^3	METAL 40 MM IN M^3	METAL 20 MM IN M^3	FUEL
03 / IAMWARM / WRO / ARNI / WORKS / II / (2009 - 10)	28	4	4	29	4	7 Nos	1,410	2,593	1,312	3,612	

ARANIYAR SUB BASIN - PACKAGE No -3
CONSTRUCTION METHODOLOGY

Sl. No.	Descriptions	Working Months														Rainy Season			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Total
	Earth work excavation																			
1	Scrub jugle	**33440**	**33440**																	66880
2	Bund		**25862**	**32327**	**25862**	**25862**	**19396**													129309
3	Channel		**15765**	**23647**	**23647**	**31529.5**	**31529**	**17341**	**14188**											157647
4	Foundation		**291**	**582**	**727**	**436**	**436**	**436**												2909
	Concrete																			
5	M 7.5 Grade		**55**	**109**	**137**	**82**	**82**	**82**												546
6	M 10 Grade			**74**	**147**	**184**	**110**	**110**	**110**											734
7	M 15 Grade			**71**	**142**	**177**	**106**	**106**	**106**											708
8	Centering			**296**	**591**	**739**	**443**	**443**	**443**											2956
9	Screw Gearing Arranagements									**3**	**5**	**5**	**9**							17
10	plastering						**422**	**422**	**422**	**422**	**422**	**422**	**422**	**422**	**422**	**422**				4220

Aranier Sub basin

PACKAGE 4

CALCULATION OF MACHINERIES REQUIREMENT

Bund

Hydraulic excavator & Tippers / Lorries	**24**	=	**6 Hours / Day**
(3 Nos. X 2 Loads / hour X 6 Hour X 4 m^3 / trip)		=	3456 m^3 / Day
For 1 month (20 Working days)	= 20 x 864 m^3		69120 m^3 / month
Total quantity of earth work		=	345279 m^3
Working period for the earth work		=	5 Months

Supply channel

Hydraulic excavator 11 Nos.	@ 100 m^3/day	
For 1 month (20 Working days)	= 11 Nos X 100 m3/ day X 20 days = 22000 m^3	
Total quantity of earth work	=157761 m^3	
Working period for the earth work	= 157761 / 22000	= 7 months

Machinaries required for earth work:

1. Hydraulic excavator (in Nos.)	14
2. Tippers / Lorries (in Nos.)	28
3. Power roller (in Nos.)	4
4. Vibrated compactor (in Nos.)	4
5. Water lorries (in Nos.)	4

	2 m^3 / Hour		For 6 Hours/ Day	
Mixer machine	=		=	12 m3/ day
Total quantity of concrete	4513			
Mixer machine required	6 Nos			
Material converyence			**Tippers / Lorries**	
Cement	10MT / Trip	=	1 Trip / day =	10MT / day
Sand	5.66m^3 / Trip	=	2 Trip / day =	11.32m^3 / day
Metal / stone	5.60m^3 / Trip	=	3 Trip / day =	16.80m^3 / day

Total quantity of cement	MT	
Lorry required for conveyence	1165 / 10	116 Lorries
Total quantity of sand	m3	
Lorry required for conveyence	2143 / 11.20	191 Lorries
Total quantity of Metal	m3	
Lorry required for conveyence	4062 / 16.80	242 Lorries

Tipper / Lorries for conveyence of materials — 4 Nos. for 20days for 7 months

ARANIYAR SUB BASIN - PACKAGE NO. 4

FORM II

REQUIREMENT OF EQUIPMENTS AND MATERIALS											
PACKAGE NO.	EQUIPTMENT REQUIRED IN NUMBRS						MATERIALS REQUIRED				
	HYDRAULIC EXCAVATER	POWER ROLLER	VIBARATED COMPACTER	TIPPER / LORRY	WATER LORRY	CONCRETE MIXER MACHINE	CEMENT IN M T	SAND IN M^3	METAL 40 MM IN M^3	METAL 20 MM IN M^3	FUEL
04 / IAMWARM / WRO / ARNI / WORKS / II / (2009 - 10)	14	4	4	28	4	6 Nos	1,165	2,143	1,108	2,953	

ARANIYAR SUB BASIN - PACKAGE No -4

CONSTRUCTION METHODOLOGY

Sl. No.	Descriptions	Working Months															Rainy Season			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Total
	Earth work excavation																			
1	Scrub jugle	**40436**	**40436**																	80872
2	Bund		**35030**	**43787**	**35030**	**35030**	**26272**													175148
3	Channel		**16859**	**25289**	**25289**	**33718.8**	**33719**	**18545**	**15174**											168594
4	Foundation		**305**	**610**	**762**	**457**	**457**	**457**												3048
	Concrete																			
5	M 7.5 Grade		**60**	**120**	**150**	**90**	**90**	**90**												600
6	M 10 Grade			**76**	**151**	**189**	**114**	**114**	**113**											757
7	M 15 Grade			**96**	**191**	**239**	**143**	**143**	**143**											954
8	Centering			**320**	**640**	**800**	**480**	**480**	**480**											3199
9	Screw Gearing Arranagements									**3**	**5**	**5**	**8**							15
10	plastering						**400**	**400**	**400**	**400**	**400**	**400**	**400**	**400**	**400**	**400**				3995

Aranier Sub basin

PACKAGE 5

CALCULATION OF MACHINERIES REQUIREMENT

Bund

Hydraulic excavator & Tippers / Lorries	**24**	=	**6 Hours / Day**
(3 Nos. X 2 Loads / hour X 6 Hour X 4 m^3 / trip)		=	3456 m^3 / Day
For 1 month (20 Working days)	= 20 x 3456 m^3		69120 m^3 / month
Total quantity of earth work		=	337565 m^3
Working period for the earth work		=	5 Months

Supply channel

Hydraulic excavator 11 Nos.	@ 100 m^3/day	
For 1 month (20 Working days)	= 15 Nos X 100 m3/ day X 20 days = 30000 m^3	
Total quantity of earth work	=209547 m^3	
Working period for the earth work	= 209547 / 30000	= 7 months

Machinaries required for earth work:

1. Hydraulic excavator (in Nos.)	18
2. Tippers / Lorries (in Nos.)	27
3. Power roller (in Nos.)	4
4. Vibrated compactor (in Nos.)	4
5. Water lorries (in Nos.)	4

	2 m^3 / Hour		For 6 Hours/ Day	
Mixer machine	=		=	12 m3/ day
Total quantity of concrete	3501			
Mixer machine required	4 Nos			

Material conveyence			**Tippers / Lorries**	
Cement	10MT / Trip	=	1 Trip / day =	10MT / day
Sand	5.66m^3 / Trip	=	2 Trip / day =	11.32m^3 / day
Metal / stone	5.60m^3 / Trip	=	3 Trip / day =	16.80m^3 / day

Total quantity of cement	MT	
Lorry required for conveyence	897 / 10	90 Lorries
Total quantity of sand	m3	
Lorry required for conveyence	1673 / 11.20	149 Lorries
Total quantity of Metal	m3	
Lorry required for conveyence	3151 / 16.80	188 Lorries

Tipper / Lorries for conveyence of materials — 3 Nos. for 20days for 7 months

ARANIYAR SUB BASIN - PACKAGE NO. 5

FORM II

REQUIREMENT OF EQUIPMENTS AND MATERIALS											
PACKAGE NO.	EQUIPTMENT REQUIRED IN NUMBRS						MATERIALS REQUIRED				
	HYDRAULIC EXCAVATER	POWER ROLLER	VIBARATED COMPACTER	TIPPER / LORRY	WATER LORRY	CONCRETE MIXER MACHINE	CEMENT IN M T	SAND IN M^3	METAL 40 MM IN M^3	METAL 20 MM IN M^3	FUEL
05 / IAMWARM / WRO / ARNI / WORKS / II / (2009 - 10)	18	4	4	27	4	4 Nos	897	1,673	892	2,260	

ARANIYAR SUB BASIN –PACKAGE No - 5

CONSTRUCTION METHODOLOGY

Sl. No.	Descriptions	Working Months												Rainy Season			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total
	Earth work excavation																
1	Scrub jugle	**90852**	**90852**														181704
2	Bund		**67513**	**84391**	**67513**	**67513**	**50634**										337565
3	Channel		**20955**	**31432**	**31432**	**41909**	**41909**	**23050**	**18859**								209547
4	Foundation		**409**	**818**	**1023**	**614**	**614**	**614**									4090
	Concrete																
5	M 7.5 Grade		**99**	**198**	**248**	**149**	**149**	**148**									991
6	M 10 Grade			**102**	**205**	**256**	**154**	**154**	**153**								1024
7	M 15 Grade			**149**	**298**	**372**	**223**	**223**	**223**								1487
8	Centering			**450**	**899**	**1124**	**674**	**674**	**674**								4495
9	Screw Gearing Arranagements									**6**	**9**	**9**	**15**				29
10	plastering						**693**	**693**	**693**	**693**	**1385**	**1385**	**1385**				6925

Aranier Sub basin

PACKAGE 6

CALCULATION OF MACHINERIES REQUIREMENT

Bund

Hydraulic excavator & Tippers / Lorries	**20**	=	**6 Hours / Day**
(3 Nos. X 2 Loads / hour X 6 Hour X 4 m^3 / trip)		=	2880 m^3 / Day
For 1 month (20 Working days)	= 20 x 2880 m^3		57600 m^3 / month
Total quantity of earth work		=	401285 m^3
Working period for the earth work		=	5 Months

Supply channel

Hydraulic excavator 16 Nos.	@ 100 m^3/day	
For 1 month (20 Working days)	= 16 Nos X 100 m3/ day X 20 days = 32000 m^3	
Total quantity of earth work	=218973 m^3	
Working period for the earth work	= 218973 / 32000	= 7 months

Machinaries required for earth work:

1. Hydraulic excavator (in Nos.)	19			
2. Tippers / Lorries (in Nos.)	25			
3. Power roller (in Nos.)	4			
4. Vibrated compactor (in Nos.)	4			
5. Water lorries (in Nos.)	4			
6.Table Vibrator (in Nos,)	1			
	2 m^3 / Hour		For 6 Hours/ Day	
Mixer machine	=		=	12 m3/ day
Total quantity of concrete	5121			
Mixer machine required	6 Nos			
Material converyence			**Tippers / Lorries**	
Cement	10MT / Trip	=	1 Trip / day =	10MT / day
Sand	5.66m^3 / Trip	=	2 Trip / day =	11.32m^3 / day
Metal / stone	5.60m^3 / Trip	=	3 Trip / day =	16.80m^3 / day

Total quantity of cement	MT	
Lorry required for conveyence	1335 / 10	133 Lorries
Total quantity of sand	m3	
Lorry required for conveyence	2369 / 11.20	211 Lorries
Total quantity of Metal	m3	
Lorry required for conveyence	4609 / 16.80	274 Lorries

Tipper / Lorries for conveyence of materials — 5 Nos. for 20days for 7 months

ARANIYAR SUB BASIN - PACKAGE NO. 6

FORM II

REQUIREMENT OF EQUIPMENTS AND MATERIALS											
PACKAGE NO.	EQUIPTMENT REQUIRED IN NUMBRS						MATERIALS REQUIRED				
	HYDRAULIC EXCAVATER	POWER ROLLER	VIBARATED COMPACTER & TABLE VIBERATOR	TIPPER / LORRY	WATER LORRY	CONCRETE MIXER MACHINE	CEMENT IN M T	SAND IN M^3	METAL 40 MM IN M^3	METAL 20 MM IN M^3	FUEL
06 / IAMWARM / WRO / ARNI / WORKS / II / (2009 - 10)	19	4	4 & 1	25	4	6 Nos	1,335	2,369	902	3,707	

ARANIYAR SUB BASIN – PACKAGE- No.6

CONSTRUCTION METHODOLOGY

Sl. No.	Descriptions	Working Months												Rainy Season			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total
	Earth work excavation																
1	Scrub jugle	**107640**	**107640**														215280
2	Bund		**80257**	**100321**	**80257**	**80257**	**60193**										401285
3	Channel		**21897.3**	**32846**	**32846**	**43795**	**43795**	**24087**	**19708**								218973
4	Foundation		**357**	**713**	**892**	**535**	**535**	**535**									3567
	Concrete																
5	M 7.5 Grade		**100**	**200**	**251**	**150**	**150**	**150**									1002
6	M 10 Grade			**170**	**340**	**425**	**255**	**255**	**254**								1698
7	M 15 Grade			**242**	**484**	**605**	**363**	**363**	**363**								2421
8	Centering			**402**	**804**	**1006**	**603**	**603**	**603**								4022
9	Screw Gearing Arranagements									**5**	**7**	**7**	**12**				24
10	plastering						**459**	**459**	**459**	**459**	**918**	**918**	**918**				4589

Aranier Sub basin

PACKAGE **7**

CALCULATION OF MACHINERIES REQUIREMENT

Bund

Hydraulic excavator & Tippers / Lorries	**21**	=	**6 Hours / Day**
(4 Nos. X 2 Loads / hour X 6 Hour X 4 m^3 / trip)		=	4032 m^3 / Day
For 1 month (20 Working days)	= 20 x 4032 m^3		80640 m^3 / month
Total quantity of earth work		=	393481 m^3
Working period for the earth work		=	5 Months

Supply channel

Hydraulic excavator 14 Nos.	@ 100 m^3/day	
For 1 month (20 Working days)	= 14 Nos X 100 m3/ day X 20 days = 28000 m^3	
Total quantity of earth work	=187873 m^3	
Working period for the earth work	= 187873 / 28000	= 7 months

Machinaries required for earth work:

1. Hydraulic excavator (in Nos.)	18
2. Tippers / Lorries (in Nos.)	25
3. Power roller (in Nos.)	5
4. Vibrated compactor (in Nos.)	5
5. Water lorries (in Nos.)	5

	2 m^3 / Hour		For 6 Hours/ Day	
Mixer machine	=		=	12 m3/ day
Total quantity of concrete	4475			
Mixer machine required	5 Nos			
Material converyence			**Tippers / Lorries**	
Cement	10MT / Trip	=	1 Trip / day =	10MT / day
Sand	5.66m^3 / Trip	=	2 Trip / day =	11.32m^3 / day
Metal / stone	5.60m^3 / Trip	=	3 Trip / day =	16.80m^3 / day

Total quantity of cement	MT	
Lorry required for conveyence	1188 / 10	119 Lorries
Total quantity of sand	m3	
Lorry required for conveyence	2081 / 11.20	186 Lorries
Total quantity of Metal	m3	
Lorry required for conveyence	3999 / 16.80	238 Lorries

Tipper / Lorries for conveyence of materials — 4 Nos. for 20days for 7 months

ARANIYAR SUB BASIN - PACKAGE NO. 7

FORM II

REQUIREMENT OF EQUIPMENTS AND MATERIALS											
PACKAGE NO.	EQUIPTMENT REQUIRED IN NUMBRS						MATERIALS REQUIRED				
	HYDRAULIC EXCAVATER	POWER ROLLER	VIBARATED COMPACTER	TIPPER / LORRY	WATER LORRY	CONCRETE MIXER MACHINE	CEMENT IN M T	SAND IN M^3	METAL 40 MM IN M^3	METAL 20 MM IN M^3	FUEL
07 / IAMWARM / WRO / ARNI / WORKS / II / (2009 - 10)	18	5	5	25	5	5 Nos	1,195	2,095	1,063	2,964	

ARANIYAR SUB BASIN –PACKAGE No-7
CONSTRUCTION METHODOLOGY

Sl. No.	Descriptions	Working Months															Rainy Season			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Total
	Earth work excavation																			
1	Scrub jugle	**102060**	**102060**																	204120
2	Bund		**78696**	**98370**	**78696**	**78696**	**59022**													393481
3	Channel		**18192**	**27288**	**27288**	**36383.3**	**36383**	**20011**	**16373**											181917
4	Foundation		**366**	**731**	**914**	**548**	**548**	**548**												3656
	Concrete																			
5	M 7.5 Grade		**118**	**236**	**295**	**177**	**177**	**177**												1182
6	M 10 Grade			**84**	**168**	**210**	**126**	**126**	**126**											839
7	M 15 Grade			**246**	**491**	**614**	**368**	**368**	**368**											2454
8	Centering			**433**	**867**	**1084**	**650**	**650**	**650**											4334
9	Screw Gearing Arranagements									**4**	**7**	**7**	**11**							22
10	plastering						**583**	**583**	**583**	**583**	**583**	**583**	**583**	**583**	**583**	**583**				5826

Araniar Sub basin

PACKAGE **8**

CALCULATION OF MACHINERIES REQUIREMENT

Bund

Hydraulic excavator & Tippers / Lorries	**20**	=	**6 Hours / Day**
(4 Nos. X 2 Loads / hour X 6 Hour X 4 m^3 / trip)		=	3456 m^3 / Day
For 1 month (20 Working days)	= 20 x 3840 m^3		76800 m^3 / month
Total quantity of earth work		=	377909 m^3
Working period for the earth work		=	5 Months

Supply channel

Hydraulic excavator 28 Nos.	@ 120 m^3/day	
For 1 month (20 Working days)	= 28 Nos X 120 m3/ day X 20 days = 67200 m^3	
Total quantity of earth work	=471260 m^3	
Working period for the earth work	= 471260 / 67200	= 7 months

Machinaries required for earth work:

1. Hydraulic excavator (in Nos.)	32			
2. Tippers / Lorries (in Nos.)	24			
3. Power roller (in Nos.)	4			
4. Vibrated compactor (in Nos.)	4			
5. Water lorries (in Nos.)	4			
6.Table Vibrator (in Nos,)	1			
	2 m^3 / Hour		For 6 Hours/ Day	
Mixer machine	=		=	12 m3/ day
Total quantity of concrete	3843			
Mixer machine required	5 Nos			
Material converyence			**Tippers / Lorries**	
			1 Trip / day	
Cement	10MT / Trip	=	=	10MT / day
			2 Trip / day	
Sand	5.66m^3 / Trip	=	=	11.32m^3 / day
			3 Trip / day	
Metal / stone	5.60m^3 / Trip	=	=	16.80m^3 / day

Total quantity of cement	MT	
Lorry required for conveyence	941 / 10	94 Lorries
Total quantity of sand	m3	
Lorry required for conveyence	1857 / 11.20	166 Lorries
Total quantity of Metal	m3	
Lorry required for conveyence	3459 / 16.80	206 Lorries

Tipper / Lorries for conveyence of materials — 4 Nos. for 20days for 7 months

ARANIYAR SUB BASIN - PACKAGE NO. 8

FORM II

REQUIREMENT OF EQUIPMENTS AND MATERIALS											
PACKAGE NO.	EQUIPTMENT REQUIRED IN NUMBRS						MATERIALS REQUIRED				
	HYDRAULIC EXCAVATER	POWER ROLLER	VIBARATED COMPACTER & TABLE VIBERATOR	TIPPER / LORRY	WATER LORRY	CONCRETE MIXER MACHINE	CEMENT IN M T	SAND IN M^3	METAL 40 MM IN M^3	METAL 20 MM IN M^3	FUEL
08 / IAMWARM / WRO / ARNI / WORKS / II / (2009 - 10)	32	4	4 & 1	24	4	5 Nos	941	1,857	960	2,498	

ARANIYAR SUB BASIN –PACKAGE No -8
CONSTRUCTION METHODOLOGY

Sl. No.	Descriptions	Working Months														Rainy Season			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Total
	Earth work excavation																			
1	Scrub jugle	**106420**	**106420**																	212840
2	Bund		**75582**	**94477**	**75582**	**75582**	**56686**													377909
3	Channel		**47126**	**70689**	**70689**	**94252**	**94252**	**51839**	**42413**											471260
4	Foundation		**510**	**1021**	**1276**	**765**	**765**	**765**												5103
	Concrete																			
5	M 7.5 Grade		**107**	**213**	**267**	**160**	**160**	**160**												1067
6	M 10 Grade			**163**	**327**	**408**	**245**	**245**	**245**											1633
7	M 15 Grade			**114**	**229**	**286**	**172**	**172**	**171**											1143
8	Centering			**526**	**1052**	**1315**	**789**	**789**	**789**											5258
9	Screw Gearing Arranagements									**8**	**12**	**12**	**20**							40
10	plastering						**911**	**911**	**911**	**911**	**911**	**911**	**911**	**911**	**911**	**911**				9110

Aranior Sub basin

PACKAGE 9

CALCULATION OF MACHINERIES REQUIREMENT

Bund

Hydraulic excavator & Tippers / Lorries	**23**	=	**6 Hours / Day**
(3 Nos. X 2 Loads / hour X 6 Hour X 4 m^3 / trip)		=	3312 m^3 / Day
For 1 month (20 Working days)	= 20 x 3312 m^3		66240 m^3 / month
Total quantity of earth work		=	324913 m^3
Working period for the earth work		=	5 Months

Supply channel

Hydraulic excavator 22 Nos.	@ 120 m^3/day	
For 1 month (20 Working days)	= 22 Nos X 120 m3/ day X 20 days = 52800 m^3	
Total quantity of earth work	=367873 m^3	
Working period for the earth work	= 367873 / 52800	= 7 months

Machinaries required for earth work:

1. Hydraulic excavator (in Nos.)	25
2. Tippers / Lorries (in Nos.)	26
3. Power roller (in Nos.)	3
4. Vibrated compactor (in Nos.)	3
5. Water lorries (in Nos.)	3

	2 m^3 / Hour		For 6 Hours/ Day	
Mixer machine	=		=	12 m3/ day
Total quantity of concrete	3165			
Mixer machine required	4 Nos			
Material converyence			**Tippers / Lorries**	
Cement	10MT / Trip	=	1 Trip / day =	10MT / day
Sand	5.66m^3 / Trip	=	2 Trip / day =	11.32m^3 / day
Metal / stone	5.60m^3 / Trip	=	3 Trip / day =	16.80m^3 / day

Total quantity of cement	MT	
Lorry required for conveyence	792 / 10	79 Lorries
Total quantity of sand	m3	
Lorry required for conveyence	1535 / 11.20	137 Lorries
Total quantity of Metal	m3	
Lorry required for conveyence	2849 / 16.80	170 Lorries

Tipper / Lorries for conveyence of materials — 3 Nos. for 20days for 7 months

ARANIYAR SUB BASIN - PACKAGE NO. 9

FORM II

REQUIREMENT OF EQUIPMENTS AND MATERIALS											
PACKAGE NO.	EQUIPTMENT REQUIRED IN NUMBRS						MATERIALS REQUIRED				
	HYDRAULIC EXCAVATER	POWER ROLLER	VIBARATED COMPACTER	TIPPER / LORRY	WATER LORRY	CONCRETE MIXER MACHINE	CEMENT IN M T	SAND IN M^3	METAL 40 MM IN M^3	METAL 20 MM IN M^3	FUEL
09 / IAMWARM / WRO / ARNI / WORKS / II / (2009 - 10)	25	3	3	26	3	4 Nos	792	1,535	868	1,981	

ARANIYAR SUB BASIN –PACKAGE No -9

CONSTRUCTION METHODOLOGY

Sl. No.	Descriptions	Working Months															Rainy Season			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Total
	Earth work excavation																			
1	Scrub jugle	**107900**	**107900**																	215800
2	Bund		**64983**	**81228**	**64983**	**64983**	**48737**													324913
3	Channel		**36787**	**55181**	**55181**	**73575**	**73575**	**40466**	**33109**											367873
4	Foundation		**421**	**842**	**1053**	**632**	**632**	**632**												4210
	Concrete																			
5	M 7.5 Grade		**96**	**193**	**241**	**145**	**145**	**145**												964
6	M 10 Grade			**108**	**215**	**269**	**162**	**162**	**161**											1077
7	M 15 Grade			**113**	**225**	**281**	**169**	**169**	**168**											1124
8	Centering			**443**	**885**	**1106**	**664**	**664**	**664**											4425
9	Screw Gearing Arranagements									**7**	**11**	**11**	**18**							35
10	plastering						**791**	**791**	**791**	**791**	**791**	**791**	**791**	**791**	**791**	**791**				7905

Araniar Sub basin

PACKAGE **10**

CALCULATION OF MACHINERIES REQUIREMENT

Bund

Hydraulic excavator & Tippers / Lorries **23**		=	**6 Hours / Day**
(3 Nos. X 2 Loads / hour X 6 Hour X 4 m^3 / trip)		=	3312 m^3 / Day
For 1 month (20 Working days)	= 20 x 3312 m^3		66240 m^3 / month
Total quantity of earth work		=	326087 m^3
Working period for the earth work		=	5 Months

Supply channel

Hydraulic excavator 12 Nos.	@ 120 m^3/day	
For 1 month (20 Working days)	= 12 Nos X 120 m3/ day X 20 days = 28800 m^3	
Total quantity of earth work	=198015 m^3	
Working period for the earth work	= 198015 / 28800	= 7 months

Machinaries required for earth work:

1. Hydraulic excavator (in Nos.)	15
2. Tippers / Lorries (in Nos.)	26
3. Power roller (in Nos.)	4
4. Vibrated compactor (in Nos.)	4
5. Water lorries (in Nos.)	4

	2 m^3 / Hour		For 6 Hours/ Day	
Mixer machine	=		=	12 m3/ day
Total quantity of concrete	3176			
Mixer machine required	4 Nos			

Material conveyence			**Tippers / Lorries**	
Cement	10MT / Trip	=	1 Trip / day =	10MT / day
Sand	5.66m^3 / Trip	=	2 Trip / day =	11.32m^3 / day
Metal / stone	5.60m^3 / Trip	=	3 Trip / day =	16.80m^3 / day

Total quantity of cement	MT	
Lorry required for conveyence	775 / 10	78 Lorries
Total quantity of sand	m3	
Lorry required for conveyence	1557 / 11.20	139 Lorries
Total quantity of Metal	m3	
Lorry required for conveyence	2859 / 16.80	170 Lorries

Tipper / Lorries for conveyence of materials — 3 Nos. for 20days for 7 months

ARANIYAR SUB BASIN - PACKAGE NO. 10

FORM II

REQUIREMENT OF EQUIPMENTS AND MATERIALS											
PACKAGE NO.	EQUIPTMENT REQUIRED IN NUMBRS						MATERIALS REQUIRED				
	HYDRAULIC EXCAVATER	POWER ROLLER	VIBARATED COMPACTER	TIPPER / LORRY	WATER LORRY	CONCRETE MIXER MACHINE	CEMENT IN M T	SAND IN M^3	METAL 40 MM IN M^3	METAL 20 MM IN M^3	FUEL
10 / IAMWARM / WRO / ARNI / WORKS / II / (2009 - 10)	15	4	4	26	4	4 Nos	775	1,557	899	1,960	

ARANIYAR SUB BASIN –PACKAGE No -10

CONSTRUCTION METHODOLOGY

Sl. No.	Descriptions	Working Months															Rainy Season			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Total
	Earth work excavation																			
1	Scrub jugle	**120620**	**120620**																	241240
2	Bund		**65217**	**81522**	**65217**	**65217**	**48913**													326087
3	Channel		**19801**	**29702**	**29702**	**39603**	**39603**	**21782**	**17821**											198015
4	Foundation		**482**	**964**	**1204**	**723**	**723**	**722**												4818
	Concrete																			
5	M 7.5 Grade		**100**	**200**	**250**	**150**	**150**	**150**												999
6	M 10 Grade			**127**	**254**	**317**	**191**	**191**	**190**											1270
7	M 15 Grade			**91**	**182**	**227**	**136**	**136**	**136**											908
8	Centering			**509**	**1019**	**1273**	**764**	**764**	**764**											5093
9	Screw Gearing Arranagements									**8**	**12**	**12**	**21**							41
10	plastering						**910**	**910**	**910**	**910**	**910**	**910**	**910**	**910**	**910**	**910**				9095

Aranier Sub basin

PACKAGE **11**

CALCULATION OF MACHINERIES REQUIREMENT

Bund

Hydraulic excavator & Tippers / Lorries	**4**	=	**6 Hours / Day**
(3 Nos. X 2 Loads / hour X 6 Hour X 4 m^3 / trip)		=	3456 m^3 / Day
For 1 month (20 Working days)	= 20 x 864 m^3		69120 m^3 / month
Total quantity of earth work		=	345279 m^3
Working period for the earth work		=	5 Months

Supply channel

Hydraulic excavator 11 Nos.	@ 100 m^3/day	
For 1 month (20 Working days)	= 11 Nos X 100 m3/ day X 20 days = 22000 m^3	
Total quantity of earth work	=157761 m^3	
Working period for the earth work	= 157761 / 22000	= 7 months

Machinaries required for earth work:

1. Hydraulic excavator (in Nos.)	28
2. Tippers / Lorries (in Nos.)	25
3. Power roller (in Nos.)	6
4. Vibrated compactor (in Nos.)	6
5. Water lorries (in Nos.)	6

	2 m^3 / Hour		For 6 Hours/ Day	
Mixer machine	=		=	12 m3/ day
Total quantity of concrete	3653			
Mixer machine required	5 Nos			
Material converyence			**Tippers / Lorries**	
Cement	10MT / Trip	=	1 Trip / day =	10MT / day
Sand	5.66m^3 / Trip	=	2 Trip / day =	11.32m^3 / day
Metal / stone	5.60m^3 / Trip	=	3 Trip / day =	16.80m^3 / day

Total quantity of cement	MT	
Lorry required for conveyence	914 / 10	91 Lorries
Total quantity of sand	m3	
Lorry required for conveyence	1770 / 11.20	158 Lorries
Total quantity of Metal	m3	
Lorry required for conveyence	3287 / 16.80	196 Lorries

Tipper / Lorries for conveyence of materials — 3 Nos. for 20days for 7 months

ARANIYAR SUB BASIN - PACKAGE NO.11

FORM II

REQUIREMENT OF EQUIPMENTS AND MATERIALS											
PACKAGE NO.	EQUIPTMENT REQUIRED IN NUMBRS						MATERIALS REQUIRED				
	HYDRAULIC EXCAVATER	POWER ROLLER	VIBARATED COMPACTER	TIPPER / LORRY	WATER LORRY	CONCRETE MIXER MACHINE	CEMENT IN M T	SAND IN M^3	METAL 40 MM IN M^3	METAL 20 MM IN M^3	FUEL
11 / IAMWARM / WRO / ARNI / WORKS / II / (2009 - 10)	28	6	6	25	6	5 Nos	914	1,770	997	2,290	

ARANIYAR SUB BASIN –PACKAGE No -11

CONSTRUCTION METHODOLOGY

Sl. No.	Descriptions	Working Months															Rainy Season			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Total
	Earth work excavation																			
1	Scrub jugle	**116440**	**116440**																	232880
2	Bund		**65268**	**81585**	**65268**	**65268**	**48951**													326338
3	Channel		**42578**	**63867**	**63867**	**85156**	**85156**	**46836**	**38320**											425779
4	Foundation		**483**	**966**	**1207**	**724**	**724**	**724**												4828
	Concrete																			
5	M 7.5 Grade		**111**	**222**	**277**	**166**	**166**	**166**												1108
6	M 10 Grade			**124**	**248**	**310**	**186**	**186**	**186**											1241
7	M 15 Grade			**130**	**261**	**326**	**196**	**196**	**195**											1304
8	Centering			**515**	**1031**	**1289**	**773**	**773**	**773**											5154
9	Screw Gearing Arranagements									**8**	**12**	**12**	**20**							40
10	plastering						**904**	**904**	**904**	**904**	**904**	**904**	**904**	**904**	**904**	**904**				9040

Aranier Sub basin

PACKAGE **12**

CALCULATION OF MACHINERIES REQUIREMENT

Bund

Hydraulic excavator & Tippers / Lorries **24**		=	**6 Hours / Day**
(4 Nos. X 2 Loads / hour X 6 Hour X 4 m^3 / trip)		=	4608 m^3 / Day
For 1 month (20 Working days)	= 20 x 864 m^3		92160 m^3 / month
Total quantity of earth work		=	472092 m^3
Working period for the earth work		=	5 Months

Supply channel

Hydraulic excavator 22 Nos.	@ 120 m^3/day	
For 1 month (20 Working days)	= 22 Nos X 120 m3/ day X 20 days = 52800 m^3	
Total quantity of earth work	=361470 m^3	
Working period for the earth work	= 361470 / 52800	= 7 months

Machinaries required for earth work:

1. Hydraulic excavator (in Nos.)	26
2. Tippers / Lorries (in Nos.)	29
3. Power roller (in Nos.)	5
4. Vibrated compactor (in Nos.)	5
5. Water lorries (in Nos.)	5

	2 m^3 / Hour		For 6 Hours/ Day	
Mixer machine	=		=	12 m3/ day
Total quantity of concrete	5378			
Mixer machine required	7 Nos			
Material conveyence			**Tippers / Lorries**	
Cement	10MT / Trip	=	1 Trip / day =	10MT / day
Sand	5.66m^3 / Trip	=	2 Trip / day =	11.32m^3 / day
Metal / stone	5.60m^3 / Trip	=	3 Trip / day =	16.80m^3 / day

Total quantity of cement	MT	
Lorry required for conveyence	1367 / 10	137 Lorries
Total quantity of sand	m3	
Lorry required for conveyence	2547 / 11.20	227 Lorries
Total quantity of Metal	m3	
Lorry required for conveyence	4793 / 16.80	285 Lorries

Tipper / Lorries for conveyence of materials — 5 Nos. for 20days for 7 months

ARANIYAR SUB BASIN - PACKAGE NO. 12

FORM II

REQUIREMENT OF EQUIPMENTS AND MATERIALS											
PACKAGE NO.	EQUIPTMENT REQUIRED IN NUMBRS						MATERIALS REQUIRED				
	HYDRAULIC EXCAVATER	POWER ROLLER	VIBARATED COMPACTER	TIPPER / LORRY	WATER LORRY	CONCRETE MIXER MACHINE	CEMENT IN M T	SAND IN M^3	METAL 40 MM IN M^3	METAL 20 MM IN M^3	FUEL
12 / IAMWARM / WRO / ARNI / WORKS / II / (2009 - 10)	26	5	5	29	5	7 Nos	1,380	2,570	1,379	3,461	

ARANIYAR SUB BASIN –PACKAGE No -12

CONSTRUCTION METHODOLOGY

Sl. No.	Descriptions	Working Months														Rainy Season			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Total
	Earth work excavation																			
1	Scrub jugle	**141960**	**141960**																	283920
2	Bund		**94418**	**118023**	**94418**	**94418**	**70813**													472092
3	Channel		**35181**	**52772**	**52772**	**70363**	**70363**	**38700**	**31663**											351814
4	Foundation		**623**	**1246**	**1558**	**935**	**935**	**935**												6230
	Concrete																			
5	M 7.5 Grade		**153**	**307**	**383**	**230**	**230**	**230**												1533
6	M 10 Grade			**154**	**308**	**385**	**231**	**231**	**231**											1540
7	M 15 Grade			**231**	**461**	**576**	**346**	**346**	**346**											2305
8	Centering			**666**	**1333**	**1666**	**1000**	**1000**	**999**											6663
9	Screw Gearing Arranagements									**9**	**14**	**14**	**23**							45
10	plastering						**1072**	**1072**	**1072**	**1072**	**1072**	**1072**	**1072**	**1072**	**1072**	**1072**				10715

1.7 ENVIRONMENTAL CELL

Report to accompany the estimate for the work of "Environmental Component in Detailed Project Report for Araniyar Sub Basin of Chennai Basin under TN – IAMWARM PROJECT"

Estimate Amount: Rs 18.50 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 Tamilnadu. 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 - Encroachment of river and tank Beds - Poor Solid waste management
ii)	Social Issues	- Dry Land Agriculture - Reduction in Livestock - Women empowerment-SHGs - 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.

Under Chennai Basin, following Sub Basins are involved:

1) Kosathalaiyar Sub Basin
2) **Araniyar Sub Basin**
3) Cooum Sub Basin
4) Adyar Sub Basin
5) Gummidipoondi
6) Kovalam
7) Nagari
8) Nadhiyar

Accordingly, Environmental issues prevailing in the Araniyar Sub basin is taken up under IAMWARM Project.

1.00 ARANIYAR RIVER

Araniyar River originates in Andhra Pradesh near Puthur at an altitude of 600 m above M.S.L. and run for a total length of 131 kms, which drains for an area of 1470 (out of 763 sq.km). The area of the Araniyar basin is 763 Sq.km. Uttukottai, Periyapalayam and Ponneri towns are located nearer to Araniyar. Length of the Araniyar river in Chennai river Basin is 66 km. Araniyar do not have any tributaries in the basin. The mouth of the Araniyar is at Pazhaverkadu which is north of Chennai City and enters in to Bay of Bengal. There is one Anicut and one dam in Andhra

Pradesh state boundary and two anicuts in Tamilnadu namely Annappanaicken Kuppam Anicut (A.N.Kuppam) and Lakshmipuram Anicut across Araniyar. This river segment in Tamil Nadu irrigates 174 irrigation tanks to an extent of 22319.115 Hectares. The Araniyar sub basin is located between latitude of $13^{o}\ 25^{'}$ to $13^{o}\ 15^{'}$ and longitude of $79^{o}\ 45^{'}$ to $80^{o}\ 20^{'}$. Registered Ayacut Area of 22319.12 Ha.

Araniyar Sub Basin area is 763Sq km. The Taluks covered in this sub basin are Ponneri , Gummidipoondi and Uthukottai of Tiruvallur district.

HYDRAULIC PARTICULARS

Length of Araniyar River in City Limit	-	66 Km.
Total length of the River	-	131Km
Catchment Area	-	763 Sq. Km
Range of Average Annual rainfall	-	1099 mm.
Gross Recharge of the Basin	-	140.49m.

1.1 Tanks Polluted by Aquatic Weeds:

It is observed that the Aquatic weeds growth Ipomoea, locally known as Kadal Palai**, Prosopis Juliflora , Water Hyacinth and Nanal 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. Annappanaicken Anicut system in Araniyar river is seen with Water Hyacinth, Ipomea and Prosopis.**

1.2 Domestic Sewage and Municipal Solid Waste:

Sewage is being leached into the ground or directly into the nearby drains and streams. Practically there is no sewage discharge of domestic effluent in the case of villages and they create non point pollution. It is essential to conduct awareness programmes in the sub basin to avoid domestic pollution in the sub basin. It is also essential to give training to make use of the waste as worth manure by Vermicomposting techniques.

1.3 Industries:

There are about 74 Nos of Red category industries in this sub basin. Majority of red category industries found in Araniyar sub basin are Chemical Industry, Foundry and Engineering. Most of the industries are situated in Ponneri and Gummudipoondi taluks, far away from the river course. Only few numbers of small textile units located in Arani Village near Periapalayam and letting the dying effluent into Araniar river. Since the effluent from these industrial units having very small quantity there is no major impact created by this action. Out of the total industries located in Araniar 9 industries are classified under Red Category.

Out of the 74 red category industries in Araniar basin, nearly 80% of the industries are consuming less than 10KLD of water for the industrial production. Out of the 30 industries generating the effluent, 25 industries using the treated water for their own purposes.

1.4 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.

1.5 Encroachment:

This river basin is being encroached for various kinds of activities; this includes urban activities, farming activities and industrial activities, which may ultimately narrow down the flow of river. This would generally increase the chances of occurring flood during monsoon period by arresting the free flow of water in the river.

Therefore, legal measures should be strengthened in order to prevent more tanks being encroached upon and get lost. Encroachment also caused due to dumping of solid waste especially along the urban areas, the areas in Sholavaram, Arani, and Periyapalayam having this problem which arrest Ground water recharge to a greater extent. This needs continuous monitoring to check the encroachment to safeguard the tank in the Chennai river basin.

1.6 Sea water intrusion

Due to indiscriminate drawl of ground water, seawater intrusion has started in many places, resulting in soil loosing their fertility and found uneconomical for cropping. A seawater instruction is noticed around Minjur belt, north of chennai. The aquifers in Minjur area are tapped for Chennai Water Supply. According to the study carried out the Ground water department the sea water-fresh water interface, which was 4.9 Km from the coast in 1987 has moved to 6.5 Km during 1992. The interface was further advancing and as on year 1995, was traced to a distance of 12 Km from the coast on west direction and 13 Km in 1998. Due to this soil has been affected in about 10000 ha. in Gummidipoondi and Ponneri Taluks.

1.7 Disease Prevalence:

The disease profile indicates that acute Diarrhea is a major disease prevailing in the basin. In addition, Dysentery and Jaundice are prevalent in the basin. This is due to contamination of sewage water and lack of knowledge with the people to boil and drink the water for safety reasons.

1.8 Social Issues:

The social problems identified in the sub basin are reduction in Livestock, Poor drinking water supply, poor sanitation and poor marketing facilities. During monsoon period, the field in Minjur, Sholavaram, Ponneri blocks fields become submerged due to high tide waves and the recession of water takes place very slowly due to poor drainage facility.

2. Water Quality and Quantity:

a) Surface water quality of the basin

The surface water quality is generally good. Water can be utilized for irrugation purpose, however it need treatment before using drinking purpose.

b) Ground water quality of the basin

Only in selected points in Araniar areas especially in Ponneri and Tiruvallore area the EC values exceeds the desirable limit and pH values exceeds near the urban area of Arani, this needs proper attention to

control the values within 8.3. and in the rest of the areas the values are in upper limit touching 8.5, needs attention.

c) Water Potential of the Sub Basin

.No	Name of the Sub Basin	Utilizable ground water recharge in MCM	Net ground water in MCM	Balance potential in MCM	Percentage of development
1	Araniyar	140.49	69.10	71.39	49.18

3.0 ENVIRONMENTAL ACTIVITIES SO FAR CONDUCTED:

The following activities have been conducted in this basin

1) River basin monitoring
2) Awareness Programmes

3.1 River basin monitoring:

Water samples have been collected in the identified sampling points and also at polluted tanks. Based on the water quality and data collection, environmental status report has been prepared.

3.2 Awareness Programmes:

Environmental Awareness Programmes have been conducted throughout the basin by inviting all the line departments, farmers, Public and NGOs. These programmes had made the people to interact with the departments' representatives and to address the local environmental issues. Also, the environmental protection schemes of the Government have reached the people through the programmes.

The importance and the benefit of Solid waste management, water conservation techniques; organic farming and Tree plantation has reached the participants, from the lectures of the experts and through pamphlets. Tree Saplings has also been distributed to the participants and it had created interest in tree plantation by utilizing the sullage water.

4. ENVIRONMENTAL ACTIVTIES PROPOSED:

4.1 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.

4.2 Collection and testing of water and soil samples:

Water samples were collected and tested in the sub basin at identified sampling points regularly from the year 2002. Water samples will be collected and tested in the identified sampling points and also at polluted tanks in the sub basin. Soil samples will be collected according to the necessity arising in the sub basin.

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 at identified points in addition for a period of **Three years** to assess the environmental impact on the quality of surface water of this sub basin more accurately.

In addition to the above identified locations, water samples will also be collected and tested at regular intervals from tanks and nearby wells to estimate the level of pollution where sewage is directly let into tanks and channels to assess the impact of pollution on the quality of surface and ground water.

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

Under this item, following provisions have been made:

1. Testing charges for water and soil samples
2. Provision of labour charges , purchase of materials, conveyance , hiring of Jeep driver, computer operator etc.,

4.3 Environmental and social knowledge base analysis and

Development

Village level environmental and social data will be collected to dissipate knowledge amongst villagers for development activities.

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.

5. Social and Environmental Awareness Campaign:

Conducting Environmental and social Awareness meeting, Programme, demonstration and exhibitions on various environmental and social related issues including capacity building:

Awareness programmes are essential 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 of the sub basin. It is also proposed to conduct awareness meetings in school / institutions and also for WRO officials/ line department officials, conduct workshops at sub basin level and at Region level, provide exposures and field visit to eco friendly practices, during the study 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 ,herbal gardening

- Conversion of aquatic weeds into manure etc.,

Mode of Execution:

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

6.0 Total Cost.

The total Proposal cost works out to **Rs. 18.50 Lakhs.**

(Rupees Eighteen lakhs and fifty thousand only).

(ENVIRONMENTAL COMPONENT)					
Name of River Basin	Chennai River Basin				
Name of Sub Basin	**Aaniyar Sub Basin**				
Name of WUA	16 Nos already formed, 114 Nos yet to be formed				
Name of Division	Araniyar Basin Division, PWD, WRO, Chennai-5				
Name of Sub-Division	Araniyar sub division, PWD, WRO, Ponneri				
District	Thiruvallur				
Taluk	Ponneri	Gummidipoondi	Utthukottai		
Block	Minjur	Gummidipoondi	Poondi		
	Cholavaram	Ellapuram			
Name of Tanks severely affected by the Aquatic weeds:	Almost 80% of the tanks are affected by Aquatic weeds, especially Ipomoea (Kadal Palai), Prosopis Juliflora, Water Hyacinth, Nanal, etc				
Domestic Sewage (Name of River/ Tank with specific location polluted by Domestic sewage)	Sewage generated are disposed in land & tanks				
Municipal Solid Waste (Name of River/ Tank with specific location where Municipal solid waste is dumped)	Solid generated are disposed in land & tanks which may cause ground water pollution.				
Industries	List Enclosed				
Water Quality Status:					
i) Ground Water	Only in selected points in Araniyar areas especially in Ponneri and Thiruvallur area, the EC values exceeds the desirable limit and PH values exceeds near the urban area of Arani is within upper limit touching 8.3 and in the rest of the areas the values are in upper limit touching 8.5 . TDS and Total hardness level in most of the places along the river course. This needs close attention to monitor the pollution source to contain the same within limit.				
ii)Surface Water	The surface water quality is generally good. Water can be utilized for irrugation purpose, however it need treatment before using drinking purpose.				

"Environmental Component in Detailed Project Report for ARANIYAR SUB BASIN of Chennai Basin under TN – 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**	36				36 Nos
b)	Soil samples collected from irrigation fields for a period of **Three years**	9				9 Nos
c)	Hiring Jeep driver for the Dept Vehicle	1No	3x2 = 6 Months			6 months
d)	Collection and conveyance charges including all purchases like cans, chemicals,Documentation of test results including labour charges.	LS				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				LS
b)	Other impacts observed in the river basin.	LS				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.	L.S.				L.S.
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.	L.S.				L.S.
c)	Herbal garden in institutions	1 x 2 Nos.				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)	Printing Stickers, Pamphlets, Tin sheets, Providing Banners for Propagating Environmental Awareness among public	LS				LS
b)	Conducting Awareness Programs for Public	LS				LS
c)	Conducting Meetings for WRO officials / line department officials.	1 x 1				1 No
d)	Conducting Meetings in School/ Institution	3 x 2				6 Nos
e)	Conducting Workshop at sub basin level	1 x 1				1 No
f)	Environmental fair / exhibition, benchmarking, recognition of good eco friendly practices, green awards.	1 x 1				1 No

g)	Preparing and publishing Environmental Atlas for the Sub Basin for the use of Line departments / Institutions for better Management of Sub basin	LS				LS
h)	Environmental related books/ journal, publishing, Annual report for the sub basin	LS				LS
i)	Documentation of the entire activities, Videofilms,hire purchase of LCD,Preparation of sub-basin maps of all size & Upgradation of computer and accessories.	LS				LS
j)	Exposure to field visit and Eco-friendly practices and environmental monitoring.	LS				LS
k)	Engaging Computer Operator grade-II for the preparation of reports,Documents etc..	4 Months				4 Months
V)	Unforreseen Items	LS				LS

"Environmental Component in Detailed Project Report for ARANIYAR SUB BASIN of Chennai Basin under TN – 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)	36	Nos	Water samples collected from river & tanks for a period of Three years	6441	Each	231876
b)	9	Nos	Soil samples collected from irrigation fields for a period of Three years	10964	Each	98676
c)	6	months	Hiring Jeep driver for the Dept Vehicle@ RS 151.80 /day	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		100000
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		60000
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		90000
c)	2 Nos.	Herbal garden in institutions	30000		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 or any educational instituition)**				
a)	LS	Printing Stickers, Pamphlets, Tin sheets, Providing Banners for Propagating Environmental Awareness among public	LS		30000
b)	LS	Conducting Awareness Programs for Public	LS		300000
c)	1 No	Conducting Meetings for WRO officials / line department officials.	20000		20000
d)	3 Nos	Conducting Meetings in School/ Institution	20000		60000
e)	1 No	Conducting Workshop at sub basin level	100000		100000
f)	1 No	Environmental fair / exhibition, benchmarking, recognition of good eco friendly practices, green awards.	50000		50000
g)	LS	Preparing and publishing Environmental Atlas for the Sub Basin for the use of Line departments / Institutions for better Management of Sub basin	LS		100000
h)	LS	Environmental related books/ journal, publishing, Annual report for the sub basin,	LS		15000

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		30000
j)	LS	Exposure to field visit and Eco-friendly practices and environmental monitoring.	LS		150000
k)	4 Months	Engaging Computer Operator grade-II for the preparation of reports,Documents etc..	204	/day	21216
V)	LS	Unforeseen Items	LS		4551
		Total			**1850000**

(Rupees Eighteen lakhs and fifty thousand only)

Environmental Activities in Araniyar Sub-Basin of Chennai 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	

SAMPLING POINTS

ARANIAR SUB BASIN **Anicut**			**ORIGIN: Suruttapalli**	
Sl. No	**Sampling code No.**	**Location**	**Distance from origin, km**	**Remark**
1	10101	100 m down stream of Causeway across Araniar.	25	Causeway across Araniyar between Periyapalayam and Uthukottai.
2	10102	Down stream side of bridge across Araniyar on Chennai-Nellore National Highway near Puduvayal.	38	Puduvayal bridge is located at 35th Km from Chennai on Chennai-Nellore National Highway.
3	10103	300 m Upstream of Lakshmipuram Anicut	50	Lakshmipuram Anicut is suituated near Perumpedu village of Ponneri Taluk, whih is 3 km from Ponneri.

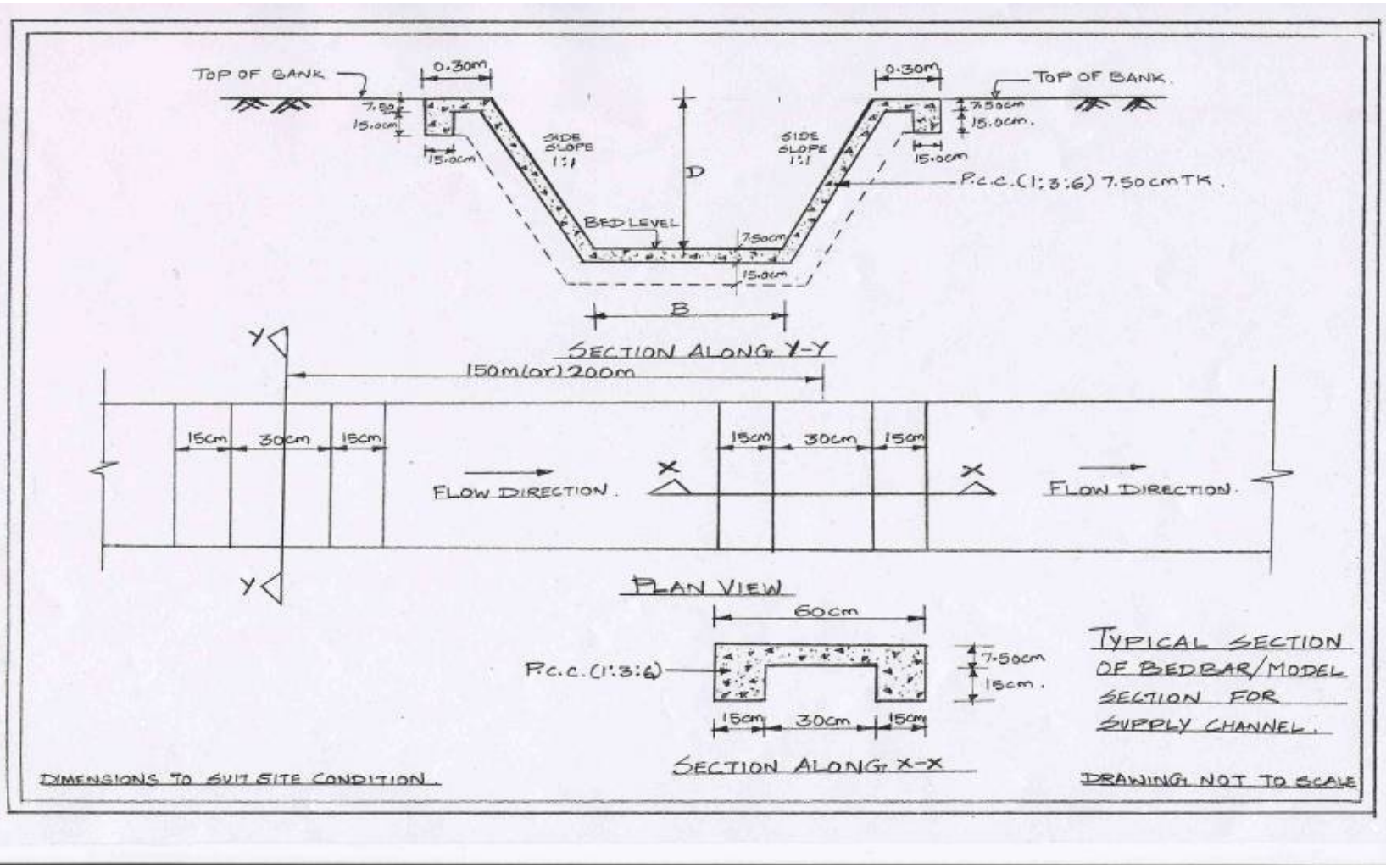
Status of Sewerage Condition in Araniyar sub basin

Towns	Population 2001	Estimated Sewage Generation (MLD)	Existence of Sewerage		Upto Primary	Upto Secondary	Upto Teritiary	No Treatment	Nature of disposal and quantity		
			Under Ground (C/P)	Open (C/P)					Water Body River	Water Body Reservoir	Land
Town Panchayats (Urban)											
Ponneri	24,205	5.4	-	P	-	-	-	Yes	-	-	5.4
Uthukottai	10,639	-	-	P	-	-	-	Yes	-	-	-
Gumudipoondi	16,116	3.3	-	P	-	-	-	Yes	-	-	3.3

Status of Solid Waste Management in Araniyar Sub basin

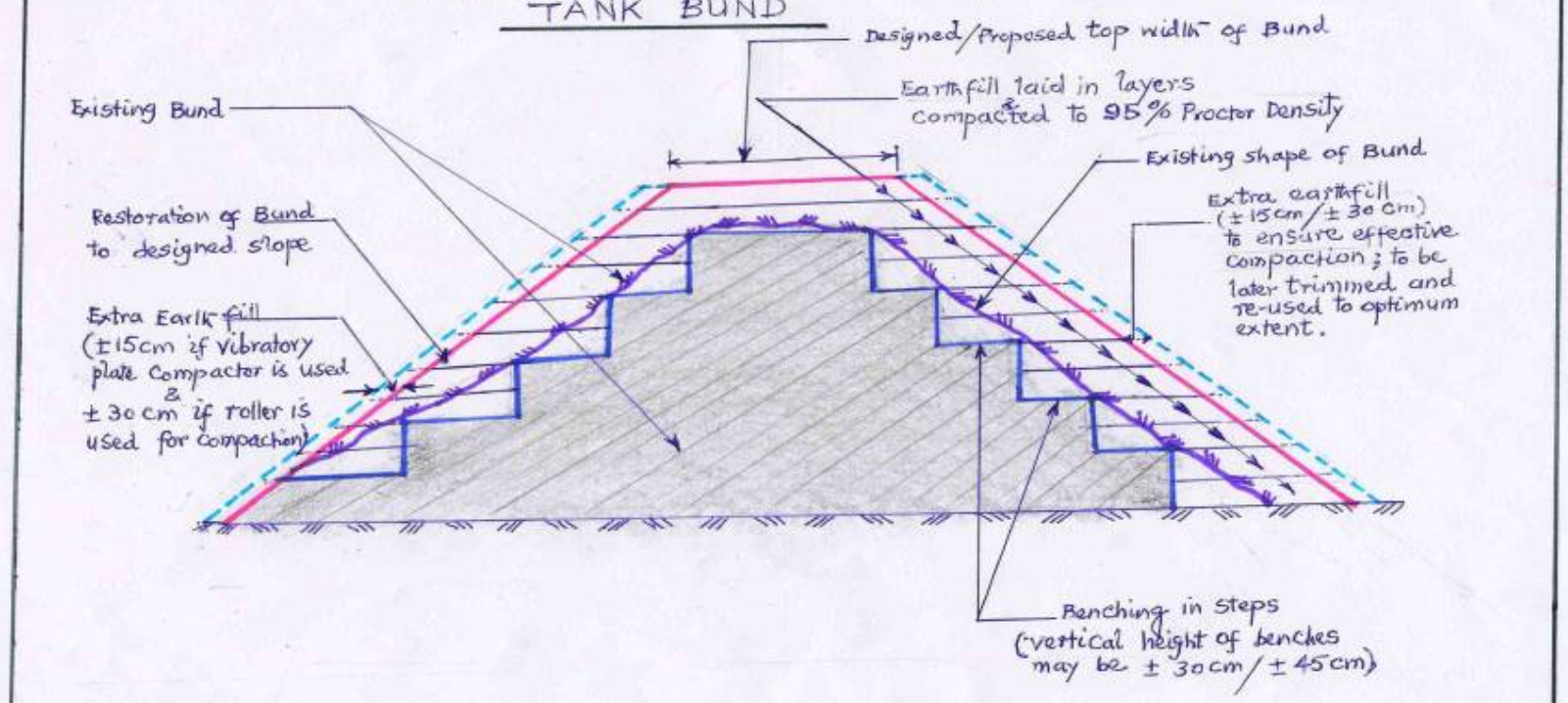
Towns	Population 2001	Solid Waste Management (Tonnes)			Workers for solid wastemanagement	waste management			
		Generation	Collection	Collection Efficiency %	Total No.	No./1000 Population	Availability Of Compost Yard	Recycling as Manure Yes/No	If yes annual Production
Town Panchayats (Urban)									
Ponneri	24,205	NA							
Uthukottai	10,639	NA							
Gumudipoondi	16,116	NA							

DESIGN AND DRAWING

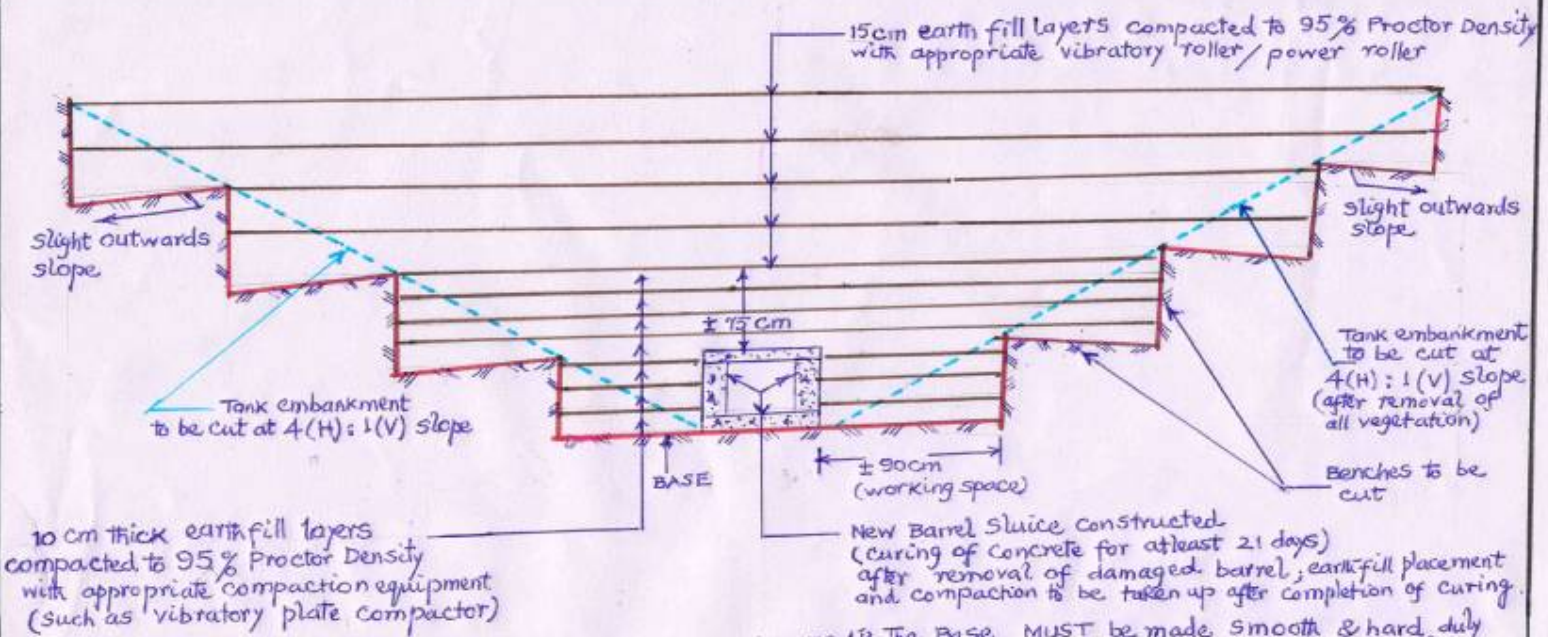

TOP OF BANK
0.30m
7.50cm
15.0cm
15.0cm
SIDE SLOPE 1:1
D
BED LEVEL
7.50cm
15.0cm
B
SIDE SLOPE 1:1
0.30m
TOP OF BANK
7.50cm
15.0cm.
15.0cm
P.C.C.(1:3:6) 7.50cm TK.
SECTION ALONG Y-Y
Y
150m(or)200m
15cm
30cm
15cm
FLOW DIRECTION.
X
X
15cm
30cm
15cm
FLOW DIRECTION.
Y
PLAN VIEW
60cm
P.C.C.(1:3:6)
7.50cm
15cm.
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



RECONSTRUCTION OF SLUICES

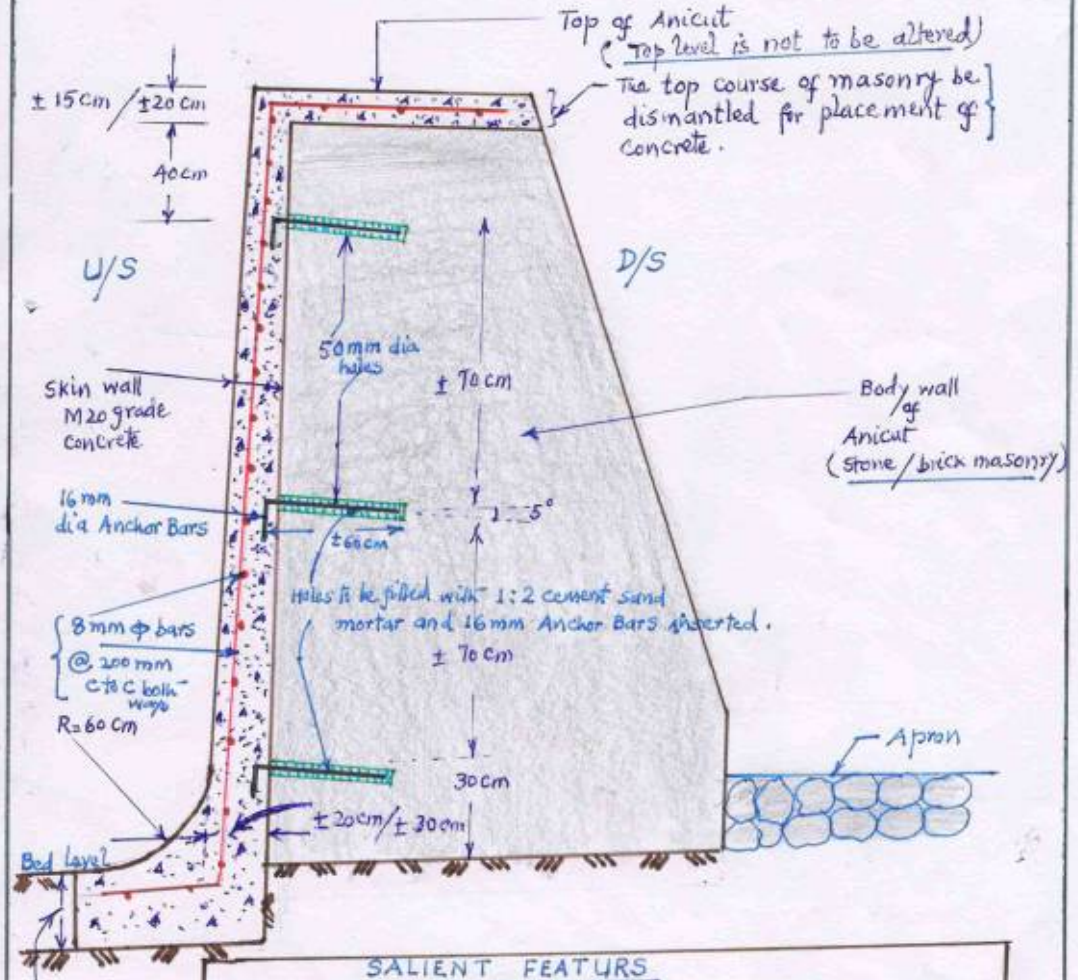
NOTES (i) The Base MUST be made smooth & hard, duly compacted with compactors / pneumatic tampers.

(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.

TYPICAL SKETCH

Rehabilitation of Anicut through SKIN WALL Concrete



SALIENT FEATURS

- Joints on u/s surface to be raked to 25 mm depth & Surface roughened by Chipping;
- Drill holes of 50 mm to be filled with 1:2 mortar and 16 mm Anchor Bars to be pushed in • The roughened surface to be kept wet for 12 hours and cement slurry (1:2·5) of 0·70 water-cement ratio be applied over the surface prior to placement of Skin Concrete.
- Concrete of M20 Grade is to be used with 20 mm maximum aggregate size.
- Curing is to be done for 21 days.
- Thickness of Skin Concrete: 15 cm at top & 20 cm at bottom for Anicuts of height upto ± 1·50 m and 20 cm at top & 30 cm at bottom for Anicuts of height more than ± 1·50 m.