

Water Security Climate Adaptation- Tamil Nadu Third State Level Steering Committee Meeting

Progress Report, Action Plan

22 Sep 2020

Rural Development and Panchayat Raj Department

Government of Tamil Nadu

SLSC Steps in Presentation



1.1Water Security and Climate Adaptation in Rural India (2019-22)

Objective

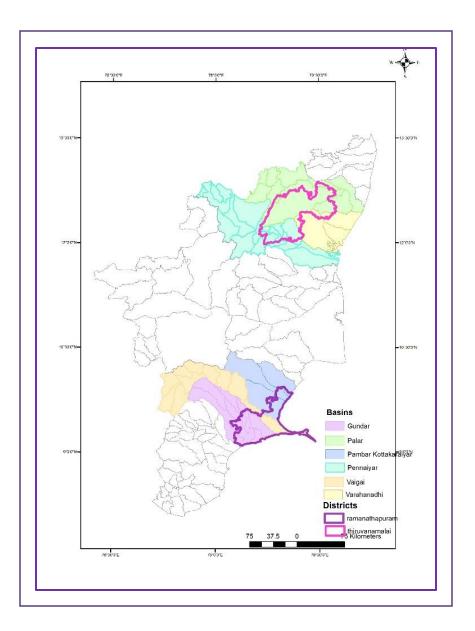
Water resource management is enhanced through an integrated approach at national, state and local level with regards to water security and climate adaptation in rural areas

Output 1: Improving existing **planning and financing** mechanisms

Output 2: Demonstrating **climate-resilient water management** measures

Output 3: Strengthening **cooperation with private sector**

WASCA Tamil Nadu Motto: Climate Resilience for Future Livelihoods





1.2 WASCA TN: Climate Proofing for Future Livelihoods

1.3 Key Steps Taken Up under WASCA TN

Capacity Building

01

Online Training
Hands on working of GPs at District WASCA Resource Centers
Orientation by GIS, MSSRF, EEs, Model GPs by AEs
Preparing plans at WASCA Resource Centres

02

Composite Water Resource Management Plan

Analysis of Non-Spatial Data and integration to GIS environment
Data Collection (by MSSRF and DRDA)
Bhuvan Thematic Layers (13 layers)
Works Identification and transposing with GIS layers on Google Earth pro
Generating Draft Action Plan

03

Steps for Verification and Approvals

- Field Verification by block level officers
 Technical Estimate Preparation
 Sanctions
- •Implementatio

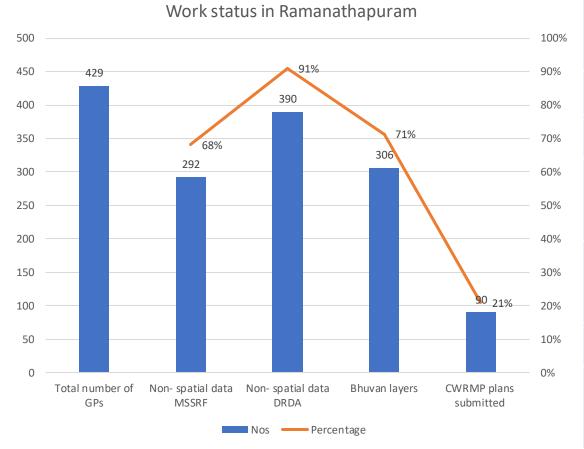


Climate Resilience Measures as Pilots

- •Identification of measures
- Preparing policy notes
- Piloting

2) WASCA Progress Ramanathapuram District

2.1 Progress of WASCA: Composite Water Resource Management Plan (CWRMP) GP Level as on 16 September 2020



WASCA Work Status : CWRMP - Ramanathapuram					
Parameter	Nos	Percentage			
Total number of GPs	429				
Non- spatial data MSSRF	292	68%			
Non- spatial data DRDA	390	91%			
Bhuvan layers	306	71%			
CWRMP plans submitted	90	21%			

2.2 Climate Analysis: Ramanathapuram District Profile

Months	Minimum ([°] C)	Maximum ([°] C)	Difference in Day / Night Temp (oC)	Evapo Transpiration in mm	ET in mts	Water Loss due to ET in HaM	% of ET losses to total ET losses	Vol. Soil Moisture in <mark>%</mark>	Normal Rainfall (mm)	% Normal Rainfall (mm)	Normal Rainy days (No.)	Normal Rainy days (No.)	Average Intensity
1	2	3	4	5	6	7	8	9	10	11	12	13	14
June-18	27.3	34.8	7.50	74.00	0.07	47.67	14%	21.00					
July-18	27.5	36.3	8.80	52.00	0.05	33.50	10%	19.00	1217	1	9	90/	12.52
August-18	26.3	35.3	9.00	52.00	0.05	33.50	10%	25.00	121.7	15%	9	8%	13.52
September-18	26.2	35.2	9.00	34.00	0.03	21.90	7%	38.00					
October-18	25	31.9	6.90	83.00	0.08	53.46	16%	37.00					
November-18	23.5	30.9	7.40	71.00	0.07	45.73	14%	19.00	507.4	63%	84	79%	6.04
December-18	23.1	31.2	8.10	51.00	0.05	32.85	10%	14.00					
January-19	20.9	31.1	10.20	34.00	0.03	21.90	7%	13.00					
February-19	24.8	33.5	8.70	32.00	0.03	20.61	6%	1.00	82.2	10%	4	4%	20.55
March-19	26.6	35.6	9.00	17.00	0.02	10.95	3%	6.00					
April-19	28.1	36.9	8.80	9.00	0.01	5.80	2%	3.00		1.70/	10	9%	0.55
May-19	28.6	36.4	7.80	13.00	0.01	8.37	2%	7.00	95.5	12%	10	9%	9.55
Total				522.00	0.52	336.24			806.8		107		
Av Per Month			8.43	43.50	0.04	28.02		16.92	67.23		9		

2.3 Analysis of CWRMP Completed GPs (No of GPs-90)

Land Classification	Area (ha)	Percentage	Surface Run Off Category & RO in Ham (CGWB: Strange Model)	% of Surface Run Off: Category wise
Forest Area	0	0.00 %		
Area under Non-Agricultural Uses	16, 096.88	18.72 %	Good Run Off Good Run ((3,575.08 Ha M) 30.61 %	
Barren & Un-cultivable Land Area	531.39	0.62%	(0,070.00 Ha Wy	00.01 /0
Permanent Pastures and Other Grazing Land Area and Area under Tree Cover	1, 680.15	1.95 %	Average Run Off (1,067.24 Ha M)	Average Run off 9.14 %
Culturable Waste Land Area	586.78	0.68%		9.14 70
Fallows Land other than Current Fallows Area	8092.55	9.41 %		
Current Fallows Area	11,378.71	13.23 %	Bad Run Off	Bad Run-Off
Total Unirrigated Land Area	24, 368.71	28.34 %	(7,038.86Ha M)	60.26%
Irrigated Land	23, 265.83	27.01 %		
Total Area of the GP	86, 001	100	11,681 Ha M	

2.4 Analysis of CWRMP Completed GPs

S No	Parameter	Number	Percentage to total GP(90)
1.1	Ground Water: Over Exploited	0	0%
1.2	Ground Water: Critical	0	0%
1.3	G.W.: Semi-Critical	0	0%
1.4	GW Safe / saline	90/1	99% under safe and 1% saline
2	Active in MGNREGS workers (active job card holders)	38, 897	85.70 %
3	Annual Grey Water Generated (HaM)	326.23	
4	Irrigated Area (2018-19) (in Ha) (Tanks + Canals)	16,632.11	41%
5	Rainfed Area (2018-19) in Ha)	23,260.93	59 %
6	Livestock Population (Nos)	1,43,085	
7	Agriculture water met by Groundwater (HaM)	28,261.18	69%
8	Water Demand in (Ha.M)	40,742.32	
9	Available Run-off for harvesting and recharge (in Ha.M) Thrid SLSC, WASCA-TN; Department of RDPR, C	7618.50 Govt of TN	10

2.5.1 Works: Climate Proofing for Future Livelihoods

S NO	Name of the Work	Number of Works
	CWRM- Water Action 1: Public & Common	Lands Developmemt
1	Afforestation (non-forest area) (in Ha)	128
2	Silvi Pasture Development (Ha)	58
3	Linear Plantation (Bund)	48,848
4	Avenue Plantation	18,000
5	Natural Drainage Lines treatment length in Mts	3,25,768
6	Total No of Tanks for Renovation	926
7	Water Courses Length	5,26,153
8	Check Dams/Gabbions	2
9	Water Absorption Trenches	67,600
10	Canal plantations	2,58,591
11	Potential Area for Agro-Forestry (Community in Ha)	3,360

2.5.2 Works: Climate Proofing for Future Livelihoods

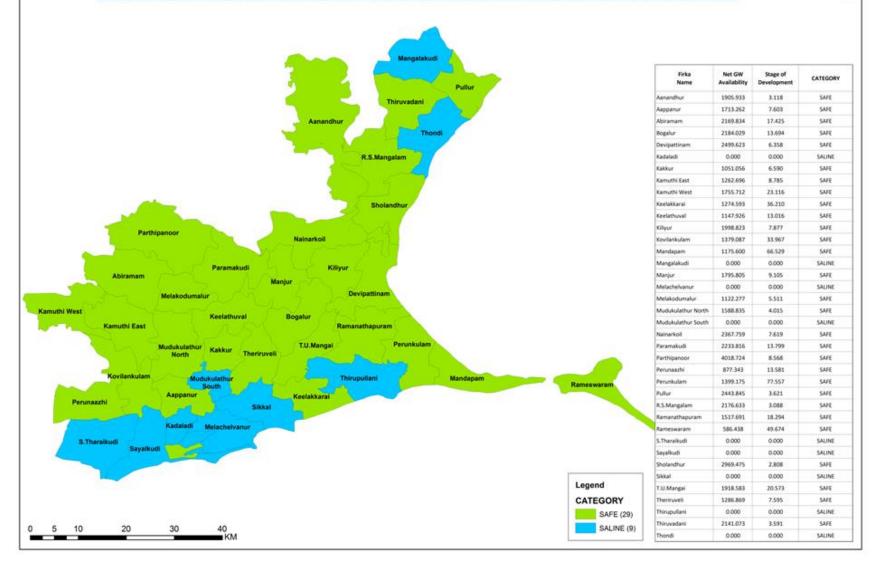
S NO	Name of the Work	Number of Works			
CW	CWRM - Water Action 2: Productivity Enhancement (Agri & Allied Sector)				
1	Fallow Land Development (Area in Ha)	2,844			
2	Land Development (Area in Ha)	2,000			
3	Composting (No of Farmers)	2,639			
4	Farm Bunding with trenches (No of Farmers)	3, 481			
5	No of Farm Ponds (No of Farmers)	2, 654			
6	Potential Area for Agroforestry (Individual) (area in Ha)	1,192			
	CWRM - Water Action 3: Rural Water Manage	ement			
1	Soak Pits (Indv and Community)	Saturation Mode			
2	Roof Water Harvesting	94			
3	Community Tanka (Rajasthan Model)	2			

2.5.3 Water Action" Climate Resilient Measures: Ramanathapuram District

S NO	Climate Resilient Measure	Location	Progress / status
1	Coastal Watersheds	Set of GPs in Kadaladi, Mandapam, Ramanathapuramand Thirupullani blocks	Three Pilot Areas identified; One pilot area draft plan prepared;
2	Riverbank Stabilization through Mini Forests	Vendoni, Paramakudi block	Plantations taken up 2019-20; Nursery raising also taken up
3	Drinking Water Assurance (Saline areas) - Catch the Rain	Chithurvadi,RS Mangalam block and Thilaiyenthal pt Thiruppullani block	Two Community Tankas constructed as pilot; High Demand for Roof Water Harvesting Storage
4	Cascade Tanks Development	R.S. Mangalam	River sub-basin and watershed mapping carried out; Tanks exclusively for re-charge purposes identified (Field Verification to be carried out)
5	Degraded land developmet – Horticulture Parks – different models	One GP in 11 Blocks	Every Block has taken up One unique Model of various income generating Agro-Forestry aspects taken up with agri+Horti+Silvi+Livestock development

Studies

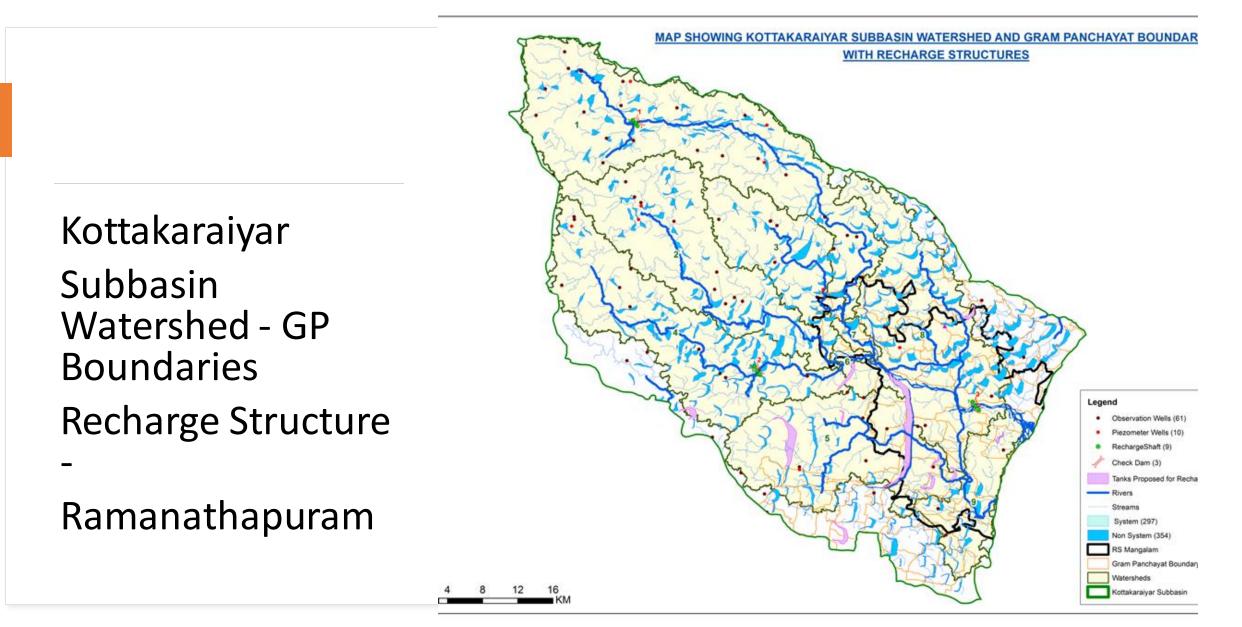
- Reducing Sea Water Intrusion and Salinity:
- To map vulnerability of the groundwater quality in aquifers, extent of seawater intrusion in the aquifers of Ramanathapuram District
- > To estimate annual rate of sea water intrusion.
- To develop effective plan, suitable methodology for the sustainable management for arresting/reducing seawater intrusion in Ramanathapuram district (with Climate Adaptation).
- Ground Water Assessment: Started 22 August 2020;
 - Convergence with CWRM and G.W. Budget
 - Artificial recharge structure,
 - River rejuvenation:,
 - subsurface dams / Recharge shafts



GROUND WATER ASSESSMENT STATUS AND POTENTIAL IN RAMANATHAPURAM DISTRICT AS ON MARCH 2017

Ground Water Assessment, Status and potential of in Ramanathapuram District

N





Sea Water Intrusion, Salinity Study, Sample Collection

- Collection of Pre-monsoon ground water samples (378 samples)
- Phase I sampling (15th to 18th July 2020) 221 samples
- Phase II sampling (18th to 21st August 2020) 157 samples
- Map Showing Collection of samples

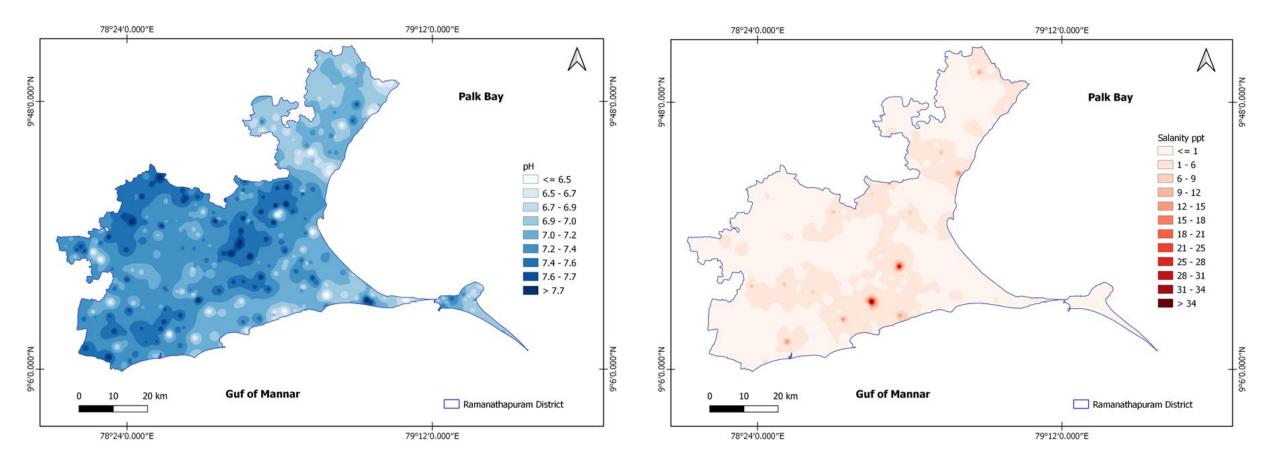
Sample Collection



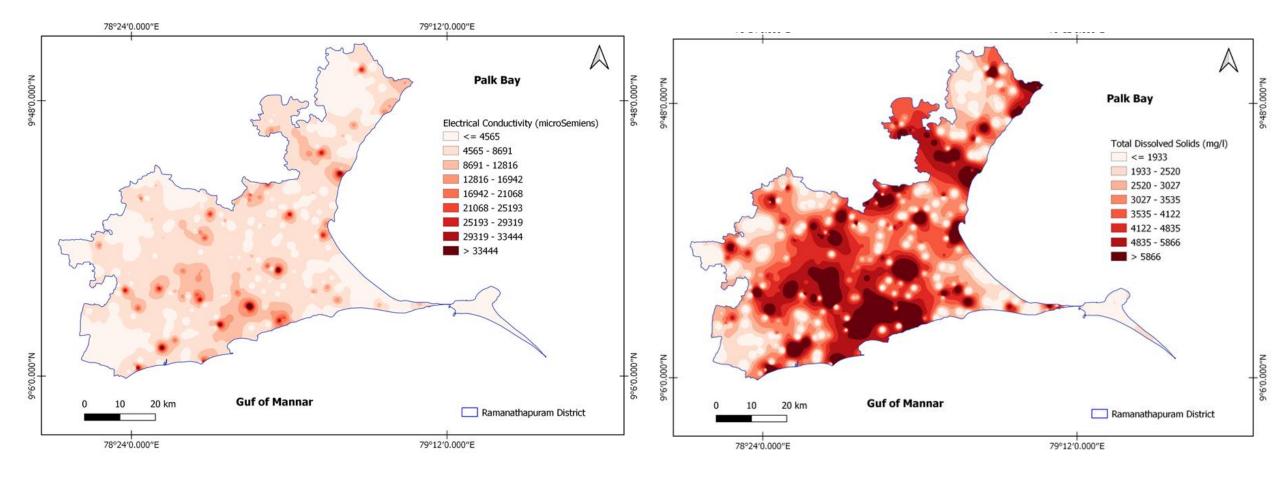
Preliminary results

SNo	Parameter	Study Results Range	Vulnerable GP Example
1	рН	6.1 to 8.1	Tharaikudi - 8.1
2	Salinity:	0 to 40ppt	Mariyarayapuram - 40 ppt
3	EC	377 to 53900 μS/cm	nearly 50% of the samples are having higher EC (2200 μ S/cm). This may be due to the intrusion of sea water 0r also may be due to rock-water interaction.; Mariyarayapuram - 53900 μ S/cm
4	TDS	214 to 32020mg/l	nearly 50% of the samples are having higher TDS (2000 mg/l), which may be due to the intrusion of sea water and also may be due to rock-water interaction. Mariyarayapuram - 32020mg/l
5	Alkalinity	220 to 481 mg/l	Raghunthapuram - 220 mg/l Tharaikudi - 481 mg/l
6	Hardness	45 to 6425 mg/l	Mariyarayapuram (Calcium, Magnesium)

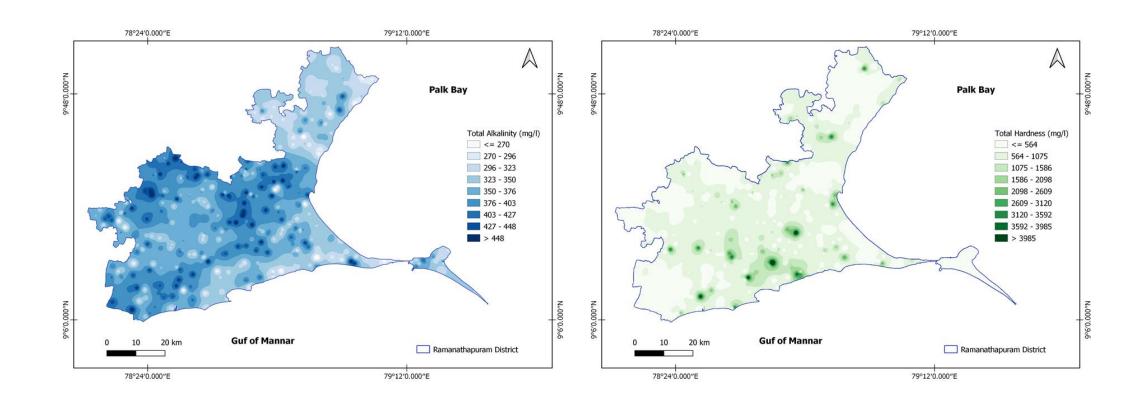
pH and Salinity status of Ramanathpuram District



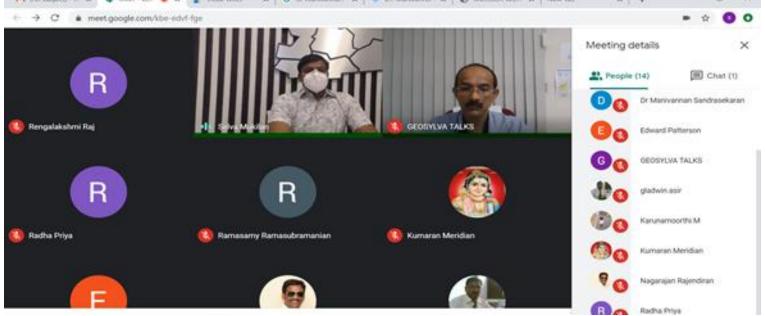
Electrical conductivity and Total Dissolved salts status



Total Alkalinity and Hardness









Third District Level Steering Committee meeting: Ramanathapuram district -24th Aug 2020



Field verification CWRM Plans and Line Department convergence GP Level Meetings- Ramanathapuram

Coastal Watersheds of Ramanathapuram



	Coastal Watershed: Ramanathapuram Dist	rict
SNo	Description	Number
1	Total No of Blocks	11
2	Coastal Blocks	6
3	Coastal Gram Panchayats	45
4	Coastal Blocks Area in Ha	2,18,233
5	Coastal Population (2011 census)	5,70,012
6	Coastal Area No of Households	1,34,858
7	Coastal Micro Watersheds (Nos)	253
7a	Inner Coastal Watershed Systems (Nos)	189
7b	Outer Coastal Watershed Systems (Nos)	64
8	Total Area of Coastal Watershed in (Ha)	1,75,200
9	Average Rainfall Coastal Area (in mm)	821
10	Coastal GPs having Mud flats and Mangroves	16
11	Coast Line Length (in KMs)	271
12	Name of marine biosphere in ha	277.26

Mangroves and Wetlands of Ramanathapuram





Coastal Watersheds in Rural Areas (CWRA): Activity Development Plan: MGNREGS Convergence

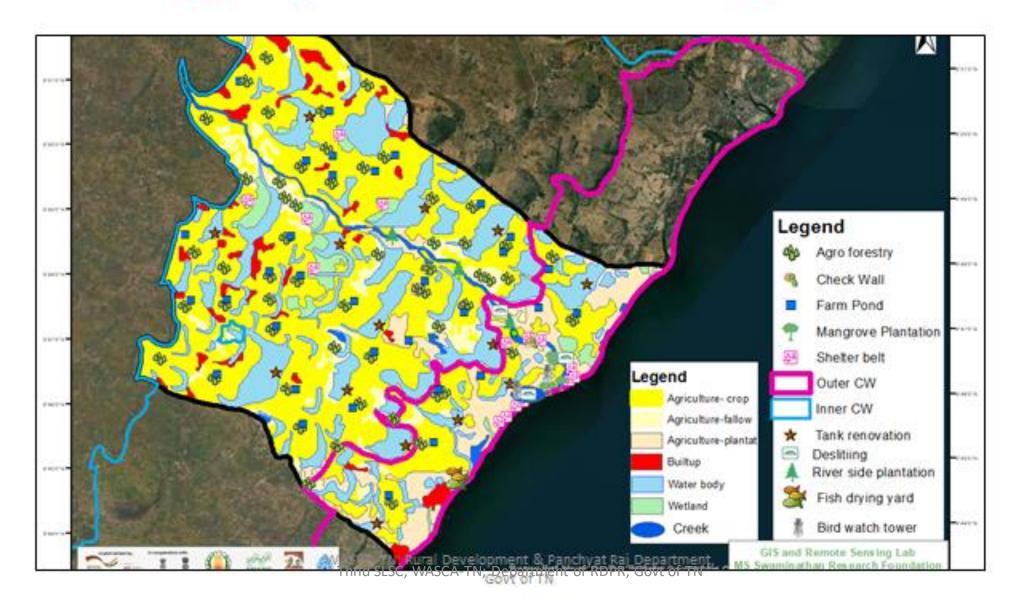
Sno. Coastal Resources Water and Land Measures Fish & Aqua culture Vegetative Measures Measures Water bodies Restoration of Tanks and Ooranis (System and non-Plantation to prevent erosion Fish tanks/ ponds 1 system tanks) Streams and Creaks Stream bank treatment for 3rd and 4th order Stream bank plantations (Palmyra; Neem; Pongamia) • 2 Mangroves streams. . check dams across graded stretches, Check dams along graded stretches of streams Protection and restoration of creeks Bund Strengthening Wetlands Water Lilly: Fish culture з. . Eco-parks Mini Forest, Plantations Inlets and Outlets management Aquifer Mapping lands under invasive Land development Neem: . Mini Forest Pongamia species Agroforestry and Plantations with local species Farmlands Contour bunding, Coconut and palmyra plantation, ٠ 5 Land development for water spreading over paddy Mango or horticulture plantation fields. Fodder development ٠ Drinking water & Roof Water Harvesting for storage Homestead. 6 Sanitation Pucka drains for grey water Nutri gardens . Re-cycle of Grey Water IHHL models which are coastal eco system friendly Fish bone technique for tidal and freshwater main . protection of mangrove forest Improving fishing grounds Mud flats & Mangroves • canal and side canals for mangroves Afforestation of mangroves on revenue land & ٠ Open shore planting reserve forest land wherever possible.



Three Pilot Areas: Coastal Watershed

Pilot 1: Coastal Watershed: Creeks- Mangroves-Agriculture land- Coastline Pilot 2-Coasttal Watershed: Agriculture Land – Wetland Coastline Pilot 3- Coastal Watershed: Agriculture land – Coastline- sand-dunes

Draft Action Plan: Coastal Watershed Category 1 : Agriculture land+ Creek –River +Mangrove+ Coast line





இராமநாதபுரம் மாவட்டம், பரமக்குடி ஊராட்சி ஒன்றியம், நெல்மருர் ஊராட்சி, நல்லூர் கிராமத்தில் மகாத்மாகாந்தி தேசிய ஊரக வாழ்வாதார இயக்கம் திட்டத்தின் கீழ் மேற்கொள்ளப்பட்டு வரும் குறுங்காடுகள் வளர்ப்பு திட்டப் பணிகளை மாவட்ட ஆட்சித் தலைவர் திரு.கொ.வீர ராகவ ராவ்,இ.ஆ.ப., அவர்கள் இன்று (10.06.2020) நேரில் சென்று பார்வைபிட்டார்.





2) Mini-Forest and Nursery – Ramanathapuram- Vendoni GP, Paramakudi Block



3)Tanka Model Work progress in 2 GPs Ramanathapuram



5) Horticulture Park at Ramanathapuram district



Thrid SLSC, WASCA-TN; Department of RDPR, Govt of TN



5) Horticulture models – Degraded land development – Public Land

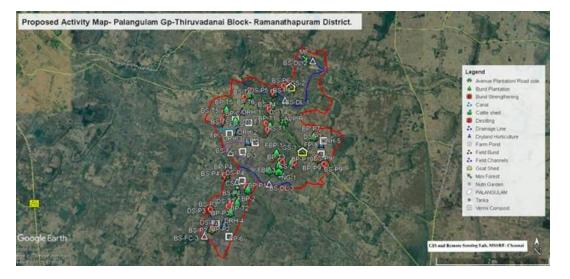


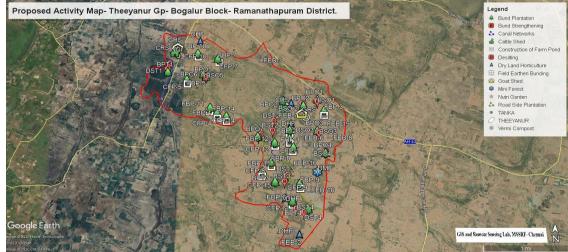


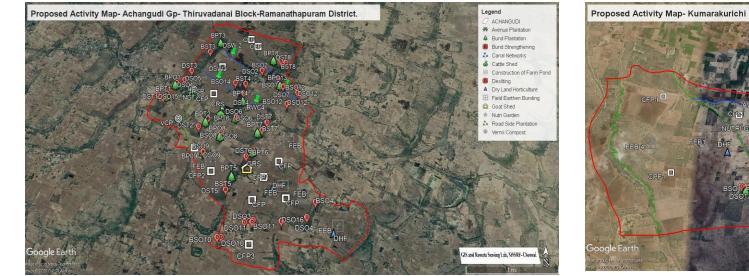


Livelihood Activity at Ramanathapuram Chicken, Goat, Cow shelter

Model GPs KMZ (four GPs)



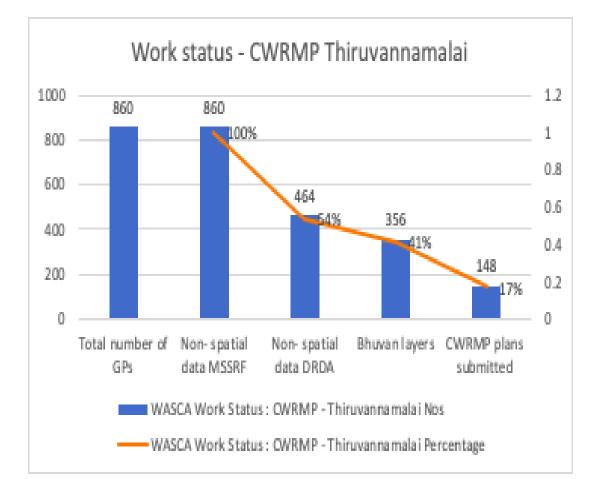






4) WASCA Progress Tiruvannamalai District

3.1 Progress of WASCA: CWRMP: Tiruvannamalai District



WASCA Work Status : CWRMP - Tiruvannamalai				
Parameter	Nos	Percentage		
Total number of GPs	860			
Non- spatial data MSSRF	860	100%		
Non- spatial data DRDA	464	54%		
Bhuvan layers	356	41%		
CWRMP plans submitted	148	19%		

3.2 Climate Analysis: Tiruvannamalai: District Profile

Climate Table	Minimum	Maximum	Diff D/N	ET expressed	ET Loss in	Volumetric Soil	Normal Rainfall	% of Normal	Normal Rainy	% Normal Rainy
	(°C)	(°C)	Temp	in mm	HaM	Moisture (%)	(mm)	Rainfall (mm)	days (No.)	days (No.)
1	2	3	4	5	6	7	8	9	10	11
June-19	26.4	35	8.6	110	34.41	31				
July-19	27.5	36	8.5	112	34.41	42		459/	80	• F 20/
August-19	27.3	34.5	7.2	100	31.29	30	465.8	45%	89	52%
September-19	26.7	33.7	7	95	31.29	25				
October-19	26.1	32.8	6.7	84	25.03	34				
November-19	25.7	32.8	6.7	60	18.77	20	439.8	42%	72	42%
December-19	24.5	30.9	7.1	54	15.64	16				
January-20	23	28.6	5.6	57	18.77	16				
February-20	22	27.6	5.6	45	15.64	4	45.8	4%	0	0%
March-20	21.1	28.5	7.4	13	3.13	14				
April-20	22.2	30.3	8.1	17	6.26	15	05.2	0%	11	<u> </u>
May-20	23.8	33.1	9.3	57	18.77	32	95.2	9%	11	6%
Average / Total			7.32	67.00	253.41	23.25	1046.60		172	

3.3 Analysis of CWRMP Completed GPs (No of GPs 148)

Land Classification	Area (ha)	Dorcontago	Surface Run Off Category and RO in Ham	% of Surface Run Off/ Range	
Forest Area	57.42	0.08%	Good Run Off		
Area under Non-Agricultural Uses	15783.92	21.44%	(6983.7 Ha M)	40.03 %	
Barren & Un-cultivable Land Area	2780.49	3.78%			
Permanent Pastures and Other Grazing Land Area and Area under Tree Cover	724.83	0.98%	Average Run Off (526.9 Ha M)	3.02 %	
Culturable Waste Land Area	867.81	1.18%			
Fallows Land other than Current Fallows Area	4369.53	5.93%			
Current Fallows Area	17761.06	24.12%	Bad Run Off		
Total Unirrigated Land Area	9533.61	12.95%	(17448.30 Ha M)	56.96 %	
Irrigated Land	21752.33	29.54%			
Total Area of the GP	73631.00 Thrid SLSC, WASCA-TN;	Department of RDPR, Govt of	17448.3 Ha M	100% 39	

3.4 Analysis of CWRMP Completed GPs (148)

S No	Parameter	Number	Percentage to total GP(148)
1.1	Ground Water: Over Exploited	118	80%
1.2	Ground Water: Critical	26	18.50 %
1.3	G.W.: Semi-Critical	4	2.70 %
1.4	GW Safe / saline	0	0%
2.	Active in MGNREGS workers (active job card holders)	69, 166	88.50 %
3	Annual Grey Water Generated (HaM)	529.80	
4	Irrigated Area (2018-19) (in Ha) (Tanks, Wells, Canals, Bore-wells)	16, 998.58	83%
5	Rainfed Area (2018-19) in Ha)	3, 460.06	17%
6	Livestock Population (Nos)	1,84,310	
7	Agriculture water met by Groundwater (HaM)	22,314.25	89%
8	Water Demand in (Ha.M)	25,051.98	
9	Available Run-off for harvesting and recharge (in Ha.M)	15, 872.60	

3.5.1 Works: Climate Proofing for Future Livelihoods

S NO	Name of the Work	Number of Works				
	CWRM - Water Action 1: Public & Common Lands Development					
1	Afforestation (Ha) and block plantations (non forest area)	625.70				
2	Silvi Pasture Development (Ha)	165				
3	Linear Plantation (Bund)	20,160				
4	Avenue Plantation (numbers)	10, 359				
5	Natural Drainage Lines treatment length in Mts	5, 50,578				
6	Renovation of Tanks & Ooranis (Nos)	504				
7	Desilting, widening Water Courses Length (RMT)	2,17,596				
8	Check Dams/Gabbions	30				
9	Water Absorption Trenches	12 GPs				
10	Canal plantations	1,020				
11	Potential Area for Agro-Forestry (Community) - (Area in Ha)	2,917				

3.5.2 Works: Climate Proofing for Future Livelihoods

S NO	Name of the Work	Number of Works				
CW	CWRM - Water Action 2: Productivity Enhancement (Agri & Allied Sector)					
1	Fallow Land Development (Area in Ha)	2,844				
2	Land Development (Area in Ha)	880				
3	Composting (no of Farmers)	1152				
4	Farm Bunding with trenches (no of Farmers)	3335				
5	No of Farm Ponds (No of Farmers)	1394				
6	Potential Area for Agroforestry - Individual- (Area in Ha)	3958				
	CWRM - Water Action 3: Rural Water Manage	ement				
1	Soak Pits	3, 334				
2	Roof Water Harvesting	278				
3	Community Tanka (Rajasthan Model)	2				

3.5.3 Water Action" Climate Resilient Measures: Tiruvannamalai

S NO	Climate Resilient Measure	Location	Progress / status
1	Greening of Hillocks	West Arani	6000 samplings planted to rejuvenate Hillocks with local species (Pongam, Tamarind, Neem, naval, ponnavarai, seetapal, etc are taken up)
2	River Rejuvenation	Kamandalar - River Sub basin-	Watershed Approach (Four Water Concept)
3	Cascade Tanks Development	Same as above	River sub-basin and watershed mapping carried out; Tanks exclusively for re-charge purposes identified (Field Verification to be carried out) (FROM PM AGENCY)
4	Silvi-Pasture Development	Every GP 2 -5 Ha	Identification of Block Level Nursery to raise requirement for Agro-Silvi Pasture Development; One Block works commenced
5	Agro-Forestry (Private lands)	Every GP 15- 25 % of Fallow lands / Dry land farmers	 Improving dryland farming through farm bunds, boundary Plantations Dry land Horticulture (WADI model) Water and Energy efficiency in farmlands





Third District Level Steering committee meeting Tiruvannamalai district 28th Aug 2020

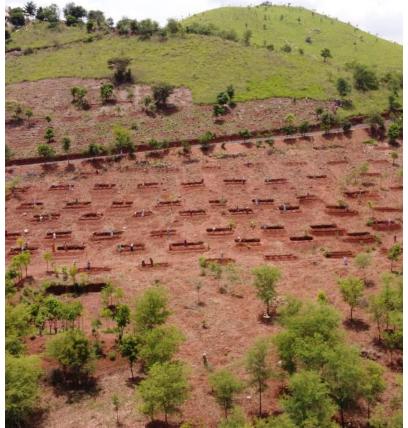
SC, WASCA-TN; Department of RDPR, Govt of TN

Field Verification of CWRM Plans: Tiruvannamalai







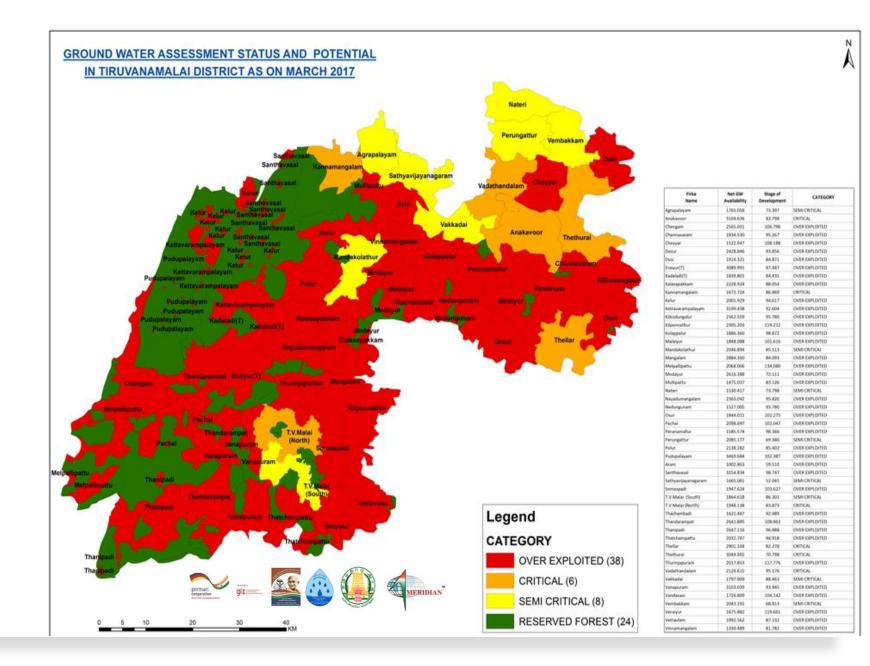






Climate Resilience Measure <u>1) Greening of Hillocks, West Arni, Tiruvannamalai</u>

2) Thuringipuram Block Level Nursery Development Tiruvannamalai

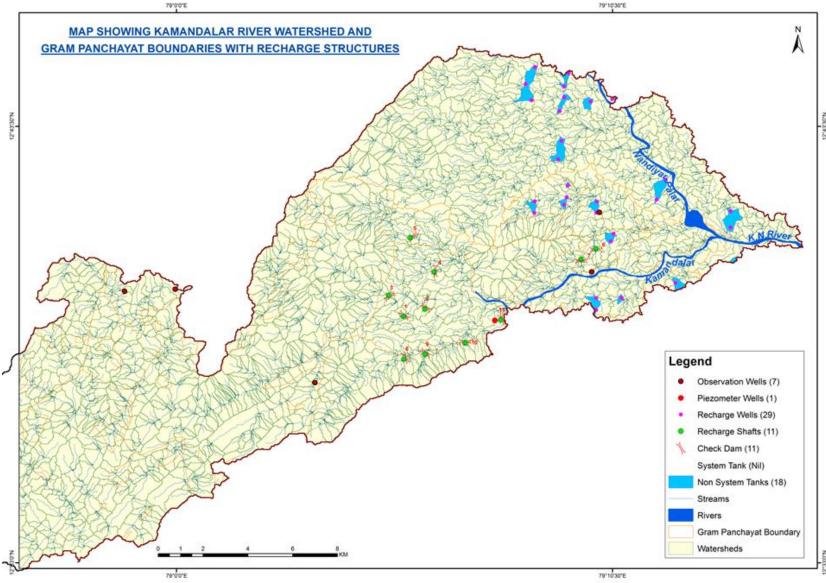


Ground Water Assessment, Status and potential in Tiruvannamalai District

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4) Kamandalar -River Sub basin-Watershed and GP Boundaries with Recharge Stru cture -

Tiruvannamalai

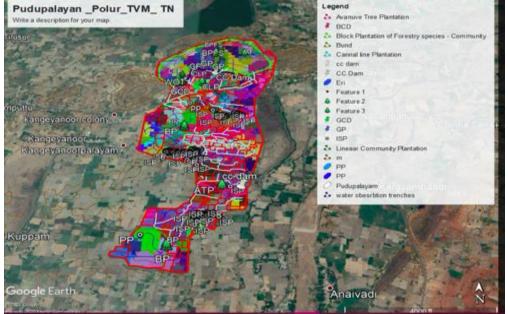


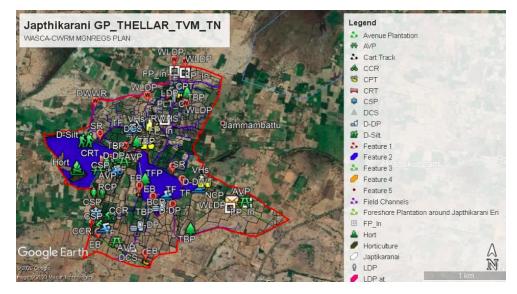
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5) Grey water management, Arni Block



Model GPs KMZ (four GPs)









4) Action Taken Report &5) Points for Discussion

4.1 Actions Taken on 2nd SLSC Meeting: 1

S No	Recommendation of 2 nd SLSC	Action Taken
1	Works identified for implementation in current season	90 GPs in Ramanathapuram & 148 GPs in Tiruvannamalai submitted for verification
2	GPs CWRM plan Approval	Teams of line departments, EE, AE formed for verification
3	CWRMP plans to be done at GP level, but the analysis and assessment of data can be done at revenue village.	Gram Panchayats falling under Type 2, Type3, Type4 and Type 5 data is collected as per this guideline, planning started
4	Focus on water conservation works, traditional water bodies restoration and supply channels, natural drainage lines to be brought under soil and water conservation works.	CWRMP priority is given for identification of these works in all GPs
5	Necessary support from revenue department through district collector orders for removal of encroachment of water body courses	To be taken up at the district level with the support of District Collector

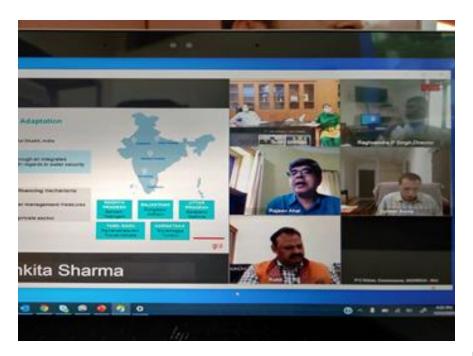
4.2 Actions Taken on 2nd SLSC Meeting: 2

S No	Recommendation of 2 nd SLSC	Action Taken
6	All Line departments share their plan of action and area of intervention so that convergence will be done	Ramanathapuram joint teams are formed to verify draft plans and scope for convergence, visited the field and collated the available schemes for further planning and action. In Tiruvannamalai, block level meetings and field visits are conducted
7	Ramanathapurm district to focus on series of water storage structures as per contour, watershed and construct new water storage structures at saturation mode	CWRMP focus on construction of farm ponds esp. with the available schemes under AED
8	District Collector to facilitate convergence meetings	24th Aug at Ramanathapuram and 28th Aug in Tiruvannamalai - DLSC Meetings were conducted
9	Plantations to be given high priority. All water conservation and soil conservation work invariably to have vegetative measures and plantations with livelihood and employment generation.	Mini forest, Mangroves, Silvipasture, Greening of hillocks, River-bank plantations, Dry land Horticulture and other forms of Agro-forestry models etc are identified
10	Identification of private sector partnership with CII.	CII National level Meeting was held through virtual mode at 3 Sep 2020. CII identified state wise CSR and thematic areas. 26 Private Partners involved.

4.3 Actions Taken on 2nd SLSC Meeting: 3

(* Actions during review, meetings with ACS and DRD, State Nodal Officers)

S No	Recommendation of 2 nd SLSC	Action Taken
11	Monthly reviews of progress of WASCA to be conducted and reports to be submitted by 24th of every month to this office.	Monthly reports generated and shared with State and District Officers
12	Monthly State Level Review with GIZ and Chairperson shall be taken up on 25th of every month.	9 th July 2020 State Level review meeting was conducted 23 rd July NSC meeting was conducted.
*13	Coastal watershed formation of Committee and Nodal Officer at Ramanathapuram	Committee Constituted
*14	Three Pilot Works to be started on Coastal Watershed	One Pilot Area, Works identified using GIS
*15	Participation in NSC	Targets revised as per submission by GIZ in the NSC

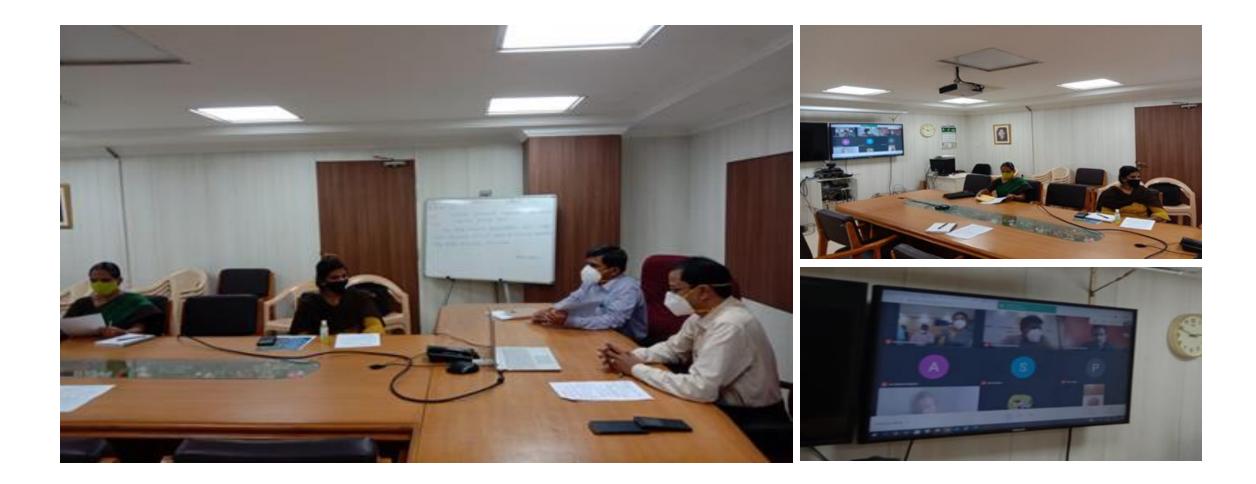






First National Steering Committee Meeting: 23 July 2020

State Review Meeting by DRD: 9th July 2020



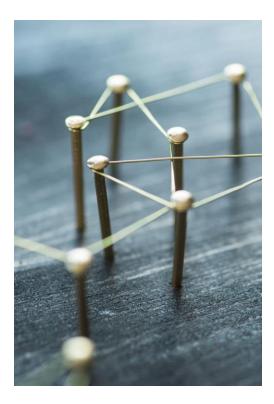








National Consultation meeting on Private Partners- 3rd September, 2020



5) Discussion Points 3rd SLSC

5.1.1 Revised Action Plan for 2020-21 as per NSC Meeting

S NO	Activity	Target	Time Line
1	Four GPs per block, CWRM planning works to be taken up during the season	44 GPs in Ramanathapuram; 72 GPs in Tiruvannamalai	Sep – Oct 2020
2	GP Level CWRM Planning	1289 GPs in two districts	15 November 2020
3	CWRM Plans also to include all Non-NRM works	All GPs	15 November 2020
4	Integrating GP plans to Block, Watershed & Rive Sub-basin level	Both the District	15 December 2020
5	All CWRM GPs uploading to MoRD GIS plan portal (after due verification& approval by GP)	1289 GPs	30 November 2020
6	Base Line for WASCA (One GP per Block)	One GP per block	30 Oct 2020
7	District WASCA plans	Both Districts	15 December 2020
8	Coastal Micro Watershed development	Three Pilots in RMD	Oct2020 – Feb 2021
9	Silvi-pasture development	2 Ha per GP	Oct 2020 – Feb 2020

5.1.2 Revised Action Plan for 2020-21 as per NSC Meeting

S NO	Activity	Target	Time Line
10	Green Fodder & Livestock Shelters	As per CWRM GP Plan	Oct 2020- Feb 2021
11	Block Nursery for supporting all plantations	One Nursery per block (one lakh number)	Oct 2020- June 2021
12	Horticulture Development Dry lands	Policy Framework	10 Nov 2020
13	Agro-Forestry (Community & Individual)	Policy Framework	10 Nov 2020
14	Cascading Tanks	Policy Framework	10 Nov 2020
15	Two River Sub basin Rejuvenation model plans	Framework	30 Oct 2020
16	Identification of Hillocks for afforestation	Framework plan	Feb 2021
17	Sea Water Intrusion Reduction (including drinking water challenges/ solutions)	Framework plan	30 Nov 2020
18	Artificial Recharge – GW Recharge	Framework plan	30 Nov 2020
19	District and State Convergence and Financing Meetings	Online Web Meeting	15 Dec 2020

5.2 Areas of Convergence, co-financing & Policy Development

S NO	Area of Convergence	Name of the Department
1	Coastal Watershed: (Mangroves, Wetlands,	NABARD, PSU- CSR; PWD (Coastal); Forest; Agriculture,
	Creeks, Coast Line, Rural Beaches, Seagrass /	Horticulture; A&H, Fisheries; Watershed dept, DRDA-SHGs,
	weed cultivation, Fisheries)	TNAU
2	Agro- Forestry (Individual& Community): Key for	NABARD, Horticulture, Agriculture, A&H, Forest department,
	Fallow lands, Dry Lands, Hilly Areas, Coastal Small	TNAU, DRDA
	Marginal Farmers, degraded public lands	
3	Nursery raising: Multipurpose: Block Level Mega	Dept of Forest, Horticulture, DRDA
	Nursery (all plantations)	
4	Horticulture: Farm Pond Farmers (dryland) and	Dept of Horticulture,
	Borewell farmers	Jain Irrigation (Private Partnership and CSR) (to be expored)
6	Silvi-pasture and pastureland development	Dept of Animal Husbandry
7	Involvement of SHGs in maintenance,	Dept of Rural Development, NABARD
	management of community block plantations	
8	Restoration of Cascade tanks and Drinking Water	PWD Water Resources Organization, FPO/Water users
		associations, DRDA, TWAD Board, Watershed
9	River Rejuvenation & Ground Water Recharge	WRO, NWM-TN, and Dept of Agriculture Engineering, DRDA
9	River Rejuvenation & Ground Water Recharge	WRO, NWW-TN, and Dept of Agriculture Engineering, DRDA

5.3 Private Sector Partnership

- 1) Formation of a sub- group headed by DRD, RDPR for encouraging private sector projects in collaboration with CII & GIZ
- 2) Engaging actively TVS CSR in Tiruvannamalai district
- 3) Engaging PSU CSR to WASCA
- 4) Using CWRM completed GPs as start point for discussion for partnership
- 5) Organising Webinars and Meeting during Oct-Dec with district collectors and line departments

Thrid SLSC, WASCA-TN; Department of RDPR, Govt of TN

5.4 Monitoring Mechanisms

S No	Monitoring Mechanism	Level	Whom to Review	Periodicity
1	State Level Steering Committee	State	Districts	Bi-Monthly
2	State Level Review DRD	State	PD, EEs	Monthly
3	District Steering Committee	District	AEE, AE, GIZ Partners	Bi-Monthly
4	Convergence Meeting Block Level Line departments	Block Level	Concerned Block level officers, BDO and AE	Monthly
5	Private Sector Partnership	State Level	CII and Private Partners	Bi-Monthly

Technical Partners of WASCA

S.No	Institution Name and Responsibilities	Contact Person
1	Centre for Climate Change and Disaster Management, Anna University -Climate Study – Scoping	Dr. K. Palanivelu Director, CCC&DM, Anna University
2	MS Swaminathan Research Foundation (MSSRF) – Lead Technical Partner. Taramani- Lead Technical Agency	Dr R.Rengalakshmi, Director, JRD Tata Eco Technology Centre, MSSRF, Chennai.
3	Suganthi Devadason Marine Research Institute (SDMRI), Thoothukudi – Seawater intrusion study	Dr. Edward Patterson Director, SDMRI, Thoothukudi
4	Prime Meridian – Ground Water Assessment and Study	G. Kumaran, Director
5	Advisors and Experts	Tank Management – Dr. K. Palanisami, Former Dean TNAU & IWMI Soil Conservation- Dr. S. Manivannaan, Principal Scientist, ICAR Institute Forestry- Mr. B. LakshmiKantam, IFS Rtd. Dy Conservator of Forest, GoAP Coastal Ecosystem - Dr R Ramasubramanian, MSSRF Sand dune Engineering Dr. R. R. Krishnamurthy, Professor, Univ of Madras
6	Subgroup working on Agroforestry, silvi-pasture, and fallow lands	Dr A Balasubramanian Prof & Head, Department of Silviculture, Forest College and Research Institute, TNAU, CBE







