

GOVERNMENT OF INDIA  
MINISTRY OF WATER RESOURCES,  
RIVER DEVELOPMENT & GANGA REJUVENATION  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 28**  
ANSWERED ON 02.02.2017

**DEVELOPMENT OF WATER RESOURCES**

28. SHRI P.R. SUNDARAM

Will the Minister of WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION be pleased to state:

- (a) whether the Government plans to introduce any special innovative technologies for harnessing and usage of available water resources in the country particularly in Tamil Nadu, if so, the details thereof;
- (b) the funds earmarked and allocated for such projects during each of the last three years, State-wise;
- (c) whether the Government has also provided funds for the development of water resources and enhancement of water catchment capacities in the country particularly Tamil Nadu; and
- (d) if so, the details thereof and the list of projects pending for approval with the Government along with the action taken/to be taken in the matter?

**ANSWER**

THE MINISTER OF STATE FOR WATER RESOURCES, RIVER DEVELOPMENT AND  
GANGA REJUVENATION

(DR. SANJEEV KUMAR BALYAN)

(a) & (b) Water being a state subject, State Governments undertake several measures for augmenting, conserving and utilizing the water resources which inter-alia include introduction of technologies for harnessing and usage of water resources in their state. This Ministry provides technical and financial assistance to the State Governments in this regard through various schemes and programmes viz. Accelerated Irrigation Benefits Programme, Scheme for Repair, Renovation & Restoration of Water-bodies etc.

To promote water use efficiency in irrigation, financial assistance is provided to the States including Tamil Nadu for development of infrastructure for micro irrigation to facilitate use of sprinkler/drip irrigation as an alternative to flood irrigation. At least 10% culturable command area of each project,

which is included under Command Area Development and Water management (CADWM) Programme during XII<sup>th</sup> Plan, is to be covered under micro irrigation. (The State-wise details of central assistance released under CADWM Programme during the last three years is given at Annexure-I).

Further, Micro Irrigation infrastructure in CADWM Programme has been implemented. Efforts are to introduce the pressure piped irrigation network for efficient management of water resources. A guideline for Micro Irrigation has been finalized.

(c) & (d) Water being state project, steps for its augmentation, conservation and efficient management are undertaken by the respective State Governments. In order to supplement the efforts of the State Governments, Central Government provides technical and financial assistance to State Governments to encourage sustainable development and efficient management of water resources through various schemes and programmes. Some of these schemes and Programmes with reference to Tamil Nadu state are as follows:

**1. Externally Funded Projects:**

The details of completed and proposed Externally Funded Projects in Tamil Nadu are given at **Annexure II & III** respectively.

**2. Repair, Renovation and Restoration (RRR) of water bodies**

The details of water bodies approved, funds released under RRR Scheme of water bodies during XII plan for Tamil Nadu and status of proposals received from Govt. of Tamil Nadu are enclosed as **Annexure- IV**.

**3. Accelerated Irrigation Benefit Programme (AIBP)**

Under AIBP, no Central Assistance was released during the last three years to Tamil Nadu for major and medium irrigation projects.

**4. National Projects:**

So far, 16 Projects have been identified under the scheme of National Projects by Govt. of India. However, no National Project is under execution or proposed in Tamil Nadu.

(Annexure referred to in reply to parts (a) & (b) of the Lok Sabha Unstarred Question No. 28 to be answered on 02.02.2017 regarding “Development of Water Resources”)

**Details of Central Assistance released under CADWM**

**Programme during the last three years**

Amount in Rs. Lakh

Sl. No.	Name of the State/UT	Central Assistance released		
		2013-14	2014-15	2015-16
1	2	3	4	5
1	Andhra Pradesh	0.00	0.000	0.000
2	Arunachal Pradesh*	277.80	150.000	831.030
3	Assam	0.00	0.000	2431.940
4	Bihar	0.00	3881.527	775.154
5	Chhattisgarh	0.00	0.000	0.000
6	Goa	0.00	0.000	0.000
7	Gujarat	0.00	0.000	35471.830
8	Haryana*	4974.44	1859.000	7738.870
9	Himachal Pradesh*	0.00	0.000	167.400
10	Jammu & Kashmir	2163.32	1530.900	2767.338
11	Jharkhand	0.00	0.000	0.000
12	Karnataka	0.00	2262.000	6109.470
13	Kerala	0.00	0.000	192.492
14	Madhya Pradesh	134.13	2927.270	10430.867
15	Maharashtra	0.00	0.000	478.130
16	Manipur	204.20	0.000	2791.920
17	Meghalaya*	0.00	0.000	0.000
18	Mizoram*	0.00	0.000	0.000
19	Nagaland*	0.00	0.000	0.000
20	Orissa	1522.92	3886.907	5795.059
21	Punjab	8131.17	0.000	15592.128
22	Rajasthan	0.00	247.000	11321.976
23	Sikkim*	0.00	0.000	0.000
24	Tamil Nadu*	590.63	349.420	2927.070
25	Telangana	0.00	0.000	0.000
26	Tripura*	0.00	0.000	0.000
27	Uttar Pradesh	0.00	2905.000	7693.380
28	Uttarakhand*	0.00	0.000	0.000
29	West Bengal*	0.00	0.000	755.245
	<b>TOTAL :</b>	<b>17998.61</b>	<b>19999.024</b>	<b>114271.299</b>

*Note: Central Assistance released include assistance for development of micro irrigation infrastructures in some of the projects included during XIIth Plan*

*\* At present CADWM Programme has been restricted to 99 prioritized AIBP projects, spread over 18 States. The projects of the remaining 11 States are not covered in the prioritized list.*

**Annexure-II**

(Annexure referred to in reply to parts (c) & (d) of the Lok Sabha Unstarred Question No. 28 to be answered on 02.02.2017 regarding “Development of Water Resources”)

**Tamil Nadu Irrigated Agriculture Modernization and Water-Bodies Restoration and Management Project Phase-I (TN-IAMWBRMP-I) [Credit No.4846 IN (IBRD) and 4255-IN (IDA)]**

The project was implemented on 12.02.2007 and closing date is 15.01.2016. The cost of the project is US\$ 566 million, out of which World Bank assistance is US\$ 335 million (IBRD) & XDR 150 million (IDA).

**Aims & objective:** To increase the productivity of irrigated agriculture for sub-basin stakeholders in a sustainable water resources management framework.

**Progress/Status:** The Project has been successful in increasing yields for crops and in diversifying to high value crops away from paddy. Under component A - Modernization of irrigation systems in a sub-basin framework, all original 325 civil works packages have been completed.

<b>Physical achievement</b>	<b>Impact witnessed</b>
Modernization and rehabilitation of 5009 Tanks, improvements to Anicuts/Check dams 791 nos, and improvement to supply Channels 8775 kms. Constructed recharge wells in Water Spread area 56 nos. Model village concept piloted in 400 villages	Increased storage capacity of tanks at 3.35% (average) Conveyance efficiency increased from 69% to 97% Gap area reduced by 60% Increase in water table at 0.60M Established 2775 water user associations & model villages has been achieved
SRI – 55339 ha demonstration	Impact area 224945 ha Productivity enhanced by 30%
Hybrid Maize – 12638 ha Precision farming – 5658 ha Sugarcane demo – 3600 ha	Impact area – 71090 ha Production increase by 35%
Converged Pulses Mission demonstration – 38712 ha	Impact area – 99359 ha Production increased by 50%
Hybrid Horticulture crops demo – 49580 ha	Impact area – 76351 ha Production increase by 40%
Expansion of micro irrigation – 47922 ha	Water saved – 24836 ha
Artificial insemination- 20.61 lac Fodder cultivation – 14477 ha	Increased in milk yield - 7.05L MT Value of production – 1410 cr
Aquaculture in Farm ponds – 831 nos	Value of fish produced – Rs.110 cr Additional employment generated – 7550

## **Annexure-III**

**(Annexure referred to in reply to parts (c) & (d) of the Lok Sabha Unstarred Question No. 28 to be answered on 02.02.2017 regarding “Development of Water Resources”)**

### **Status of New Projects in respect of Tamil Nadu**

Irrigated Agriculture Modernization and Water Resources Management Project Phase-2  
(IAMWARM-II)

Nodal agency: Water Resources Department, Govt. of Tamil Nadu

Total Estimated Cost : Rs 2950 crore

Loan - Rs 2065 crore

Status

CWC examined the proposal and recommended on 11.6.2015 to MoWR, RD &GR. The Ministry considered & approved the project Concept Note, recommended it to Department of Economic Affairs (DEA) on 29.6.2015 for external assistance. The proposal was considered by the Screening Committee meetings held in (DEA) to discuss the proposal and DEA posed the project to the World Bank on 16.10.2015 for external assistance. World Bank accepted the request for assistance. The DPR is awaited from the State Govt.

(Annexure referred to in reply to parts (c) & (d) of the Lok Sabha Unstarred Question No. 28 to be answered on 02.02.2017 regarding “Development of Water Resources”)

(XII Plan)

Details of Projects of Tamil Nadu approved by Empowered Committee for inclusion under RRR during XII Plan (till 27.01.2017)

State	No. of Water Bodies	Estimated Cost (Rs in crore)
Tamil Nadu	154	78.108

Funds released to Tamil Nadu during XII Plan scheme of RRR of Water Bodies (till 27.1.2017)

(Rs. In crore)

Name of State	No. of Water Bodies	Total Project cost	CCA to be restored (ha)	Committed Central Share	Fund released during 2014-15	Fund released during 2015-16	Fund released during 2016-17	Total funds released	Funds utilized	Number of water bodies completed	Number of water bodies in progress	Number of water bodies dropped	Potential restored (ha)
Tamil Nadu	49	27.38	945	23.96	-	5.13	-	9.23	9.23	1	47	1	-
	56	27.30	1513	24.57		4.10				6	50	-	