

GOVERNMENT OF INDIA  
MINISTRY OF AGRICULTURE AND FARMERS WELFARE  
DEPARTMENT OF AGRICULTURE AND FARMERS WELFARE

**RAJYA SABHA**  
**UNSTARRED QUESTION NO. 332**  
TO BE ANSWERED ON THE 09/12/2022

**WATER EFFICIENCY IN AGRICULTURE**

332. SHRI HARBHAJAN SINGH:

Will the MINISTER OF AGRICULTURE AND FARMERS Welfare be pleased to state:

- (a) whether it is a fact that only 38 per cent of water efficiency is prevalent in agriculture, if so, the details thereof;
- (b) the steps taken by Government to promote crop diversification to improve water efficiency in agriculture;
- (c) the measures taken by Government in consultation with the State Government of Punjab for effective conservation of water for agricultural purposes; and
- (d) the amount spent by the Central Government in this regard?

**ANSWER**

THE MINISTER OF AGRICULTURE AND FARMERS WELFARE  
(SHRI NARENDRA SINGH TOMAR)

(a): As per Twelfth Five Year Plan document published in May 2013, Central Water Commission (CWC) carried out study on water use efficiency in completed major and medium irrigation projects. According to the study, the water use efficiency in agriculture is around 38 per cent in India. The summary of results of the study is Annexed.

(b) to (d) Department of Agriculture and Farmers Welfare (DA&FW) is implementing Crop Diversification Programme in Original Green Revolution States namely Punjab, Haryana and western Uttar Pradesh from the year 2013-14 to divert the area of water guzzling paddy crop to alternate crops like pulses, oilseeds, coarse cereals, nutri-cereals, cotton and Agro-forestry. The major activities/ interventions under the programme includes alternate crop demonstrations, farm mechanization, value addition, creating awareness, trainings etc. So far, an amount of Rs. 353.87 cr of Central Assistance has been released to State of Punjab under the programme.

The DA&FW is also implementing 'Per Drop More Crop' (PDMC) scheme from the year 2015-16 in the Country including Punjab. The PDMC focuses on enhancing water use efficiency at farm level through Micro Irrigation namely Drip and Sprinkler Irrigation systems. So far, an amount of Rs. 56.93 crore of Central Assistance has been released to State of Punjab under the scheme.

Besides, Department of Water Resources, River Development and Ganga Rejuvenation is providing Central Assistance to Punjab for two projects namely Relining of Sirhind Feeder and Relining of Rajasthan Feeder under the Pradhan Mantri Krishi Sinchayee Yojana - Accelerated Irrigation Benefits Programme for increasing conveyance efficiency. So far, an amount of Rs. 433.889 Crore of Central Assistance has been released to State of Punjab under the programme.

**Annexure to Rajya Sabha Unstarred Question No. 332 for 09/12/2022**

**Water use efficiency of completed major/ medium irrigation projects based on field measurements of losses**

Sr. No.	Name of Project	Culturable Command Area (Hectares)	Conveyance Efficiency (per cent)	On Farm Application Efficiency (per cent)	Overall Project Water Use Efficiency (per cent)
(1)	(2)	(3)	(4)	(5)	(6)
1.	Bhairavanithippa Project	4,856	86	67	58
2.	Gajuladinne (Sanjeevaiah Sagar Project)	10,300	57	45	26
3.	Gandipalem Project	6,478	73	38	28
4.	Godavari Delta System (Sir Arthur Cotton Barrage)	4,10,108	83	54	45
5.	Kurnool-Cuddapah Canal System	65,465	62	45	28
6.	Kaddam Project	27,519	51	36	18
7.	Koil Sagar Project	11,700	83	75	62
8.	Krishna Delta System (Prakasam Barrage)	5,29,000	87	46	40
9.	Nagarjuna Sagar Project	8,89,000	56	39	22
10.	Narayanapuram Project	15,855	47	32	15
11.	Nizamsagar Project	93,659	87	45	39
12.	Srisaillam Project	59,900	50	34	17
13.	Rajolibanda Diversion Scheme	35,410	82	51	42
14.	Somasila Project	54,650	56	32	18
15.	Sri Ram Sagar Project	3,71,054	78	57	45
16.	Tungabhadra High Level Canal	45,800	81	58	47
17.	Tungabhadra Low Level Canal	61,163	72	45	32
18.	Vamsadhara Project	82,087	91	58	53
19.	Yeleru Project	27,240	50	28	14
20.	Augmentation Canal Project	85,443	79	72	57
21.	Dholabaha Dam Project	2,600	74	71	53
22.	Ranjit Sagar Dam Project	3,00,000	51	65	33
23.	Ahraura Dam Irrigation Project	14,964	70	70	49
24.	Matatila Dam Project	1,79,880	68	80	54
25.	Naugarh Dam Irrigation Project	64,221	71	70	50
26.	Pili Dam Project	4,044	58	65	38
27.	Walmiki Sarovar Project	6,271	62	62	38
28.	East Baigul Reservoir Project	16,605	64	65	42
	<b>Average</b>		<b>69</b>	<b>52</b>	<b>38</b>

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