

GOVERNMENT OF INDIA
MINISTRY OF JAL SHAKTI,
DEPARTMENT OF WATER RESOURCES, RIVER DEVELOPMENT & GANGA REJUVENATION

RAJYA SABHA

UNSTARRED QUESTION NO. 590

ANSWERED ON 12.12.2022

IMPACT OF GROUNDWATER DEPLETION

590 DR. ANBUMANI RAMADOSS

Will the Minister of JAL SHAKTI be pleased to state:

- (a) whether Government has conducted a comprehensive, multi-disciplinary, scientific study on the impact of excessive groundwater table depletion upon agriculture and other allied economic activities in and around Cuddalore district because of NLCIL;
- (b) if so, the details thereof and if not the reasons therefor; and
- (c) the status of groundwater table from the year 2017 to 2022?

ANSWER

THE MINISTER OF STATE FOR JAL SHAKTI

(SHRI BISHWESWAR TUDU)

(a) & (b) Yes sir, a collaborative project “Optimum Ground Water Development Plan for Multi-Layer Coastal Aquifer System of Neyveli Hydrological Basin” was carried out by Central Ground Water Board (CGWB) and NLCIL during the period 2006-13. Based on the studies a mathematical model was developed jointly to restrict the salt water intrusion and measure the declining rate of groundwater due to extraction by the NLCIL. Further, there is no sign of salt water intrusion in the Neyveli Aquifer system.

(c) The status of ground water table as monitored by the CGWB, in Cuddalore district from year 2017 to 2022, is given in **Annexure**.

ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PART (C) OF UNSTARRED QUESTION NO. 590 TO BE ANSWERED IN RAJYA SABHA ON 12.12.2022 REGARDING “IMPACT OF GROUNDWATER DEPLETION”.

Depth To Water Level (mbgl) of the Monitoring Wells in Cuddalore District (2017-2022)

Year	No of station	Depth to Water Level (mbgl)													
				0 - 2		2 - 5		5 - 10		10 - 20		20 - 40		> 40	
		Min	Max	No	%	No	%	No	%	No	%	No	%	No	%
May 2017	10	3.35	49.50	0	0.00	1	10.00	3	30.00	3	30.00	1	10.00	2	20.00
May 2018	11	7.76	82.60	0	0	0	0	2	18.18	1	9.09	1	9.09	7	63.64
May 2019	22	2.51	103.40	0	0	3	13.64	9	40.91	3	13.64	2	9.09	5	22.73
Nov 2020	23	2.22	67.42	0	0	9	39.13	8	34.78	1	4.35	2	8.70	3	13.04
Nov 2021	20	0.10	55.30	10	50.00	1	5.00	2	10.00	0	0	2	10.00	5	25.00
May 2022	18	1.78	57.45	2	11.11	7	38.89	3	16.67	0	0	2	11.11	4	22.22