Storage capacity of water bodies

- 453. DR. PRABHAKAR KORE: Will the Minister of WATER RESOURCES be pleased to state:
- (a) whether Government is aware that the storage capacity of all kinds of water bodies have come down due to accumulation of silt;
- (b) whether the Central Government has conducted any study to find out the present storage capacity of all water bodies;
 - (c) if so, the details thereof;
- (d) whether Government is taking any steps to de-silt water bodies to increase their storage capacity;
 - (e) if so, the details thereof; and
 - (f) if not, the reasons therefor?

THE MINISTER OF STATE IN THE MINISTRY OF WATER RESOURCES (SHRI VINCENT PALA): (a) Yes, Sir. The Govt. is aware that the storage capacity of all kinds of water bodies have come down due to accumulation of silt.

- (b) and (c) as per the compendium on silting of reservoirs in India (2001) brought out by Central Water Commission (CWC) in respect of 144 reservoirs in the country, the weighted average annual loss in gross storage capacity due to siltation is computed as 0.44%. The abstract of the rate of siltation of these 144 reservoirs is enclosed as Annexure [See appendix 226 Annexure No. 4.4.11]. CWC has been conducting the Capacity survey of reservoirs since eighth Plan. So far Capacity survey of 36 reservoirs has been completed. The abstract showing the details of loss in storage capacities of these reservoirs are also given in Statement (See below). CWC has also conducted sedimentation studies of total 108 reservoirs using remote sensing technique to assess the live storage capacity of reservoirs in the country. The results of the reservoirs sedimentation survey of these reservoirs are enclosed as Annexure [See Appendix 226 Annexure 612].
- (d), (e) and (f) The desiltation of reservoirs on large scale has not been considered techno-economically viable as it is associated with the problems of disposal of excavated earth and high cost of repeated desiltation. However, Government had approved pilot scheme for National project for Repair, Renovation and Restoration of Water Bodies directly linked to agriculture in January, 2005 with an estimated cost of Rs. 300 crore to be shared by the centre and state in the ratio

of 3:1 for implementation-during the Twelfth Plan period. The objectives of the scheme were to restore and augment storage capacities of water bodies and also to recover an extent their lost irrigation potential. The scheme was approved for 26 district projects in 15 states with Andhra Pradesh, Bihar, Chhattisgarh, Jharkhand, Karnataka, Madhya Pradesh, Odisha, Rajasthan, Tamil Nadu, West Bengal, Himachal Pradesh, Jammu and Kashmir, Gujarat, Kerala and Maharashtra at an estimated cost of Rs. 299.92 crore and centre grant of Rs. 197.3 crore was released to the states under the scheme. These projects were to cover 1098 water bodies with total Culturable Command Area (CCA) of Rs. 1.72 lakh hectare. The physical work for restoration has been completed in 1985 water bodies in 15 states.

Subsequently, Government had approved a State Sector Scheme for RRR of water bodies with two components (one with external assistance with an outlay of Rs. 1500 crore and second with domestic support with an outlay of Rs. 1250 crore) for implementation during Eleventh Five Year Plan period. A sum of Rs. 811.85 crore has since been released to 12 states viz. Odisha, Karnataka, Andhra Pradesh, Bihar, Uttar Pradesh (Bundelkhand), Madhya Pradesh (Bundelkhand), Meghalaya, Maharashtra, Gujarat, Chhattisgarh, Rajasthan and Haryana under the scheme of RRR of water bodies with domestic support during the year 2009-10, 2010-11 and 2011-12. 3341 water bodies were taken up for restoration out of which works have been completed in 1462 water bodies. Out of 10887 water bodies taken up under the scheme of RRR of water bodies with external assistance, works have been completed in 3093 water bodies in Tamilnadu and Andhra Pradesh.

									LS- 139.49 G.S- 282.55					Written Answers
5.	Linganamakki/ Karnatka	Sharavati	1964	1991.71	4435.35	0.71	1(1999)	2.4	D.S-76.75 LS-95.08	3.87	0.11	2.2	54.31	Inswer
	Kaillatka								G.S171.83					s to
6.	Idukh/Kerala	Periyar	1974	649.31	1998.57	0.571	1(1999)	1.592	D.S-18.34	1.29	0.05	0.513	3.42	
									LS - 7.504 G.S-25.844					
7.	Kakki/Kerala	Kakkiyar	1966	217.55	454.07	0.359	1(1999)	3.522	D.S-0.02	5.57	0.17	5.66	5 026	[13
									LS-25.27 GS-2529					AUG
8.	Jayakwadi/	Godavari	1976	21774	2909.04	0.357	1(1999)	0.478	D.S-155.64	8.39	0.37	4.34	21.09	AUG, 2012]
	Maharashtra						, ,		LS-94.16					ت
									G.S-249.80					Uns
9	Tenughat/ Jharkhand	Damodar	1970	4481	1014	0.473	1(2001)	0.716	D.S-50.81 LS-48.69	9.82	0.32	1.28	24	Unstarred
	Juarkhand								G.S-99.50					
10	. Ghataprabha/	Ghataprabha	1974	1411.55	1434.14	0.405	3(2000)	3.15	D.S-26.54	8.1	0.31	6.51	39.03	Questions
	Karnataka								L.S - 88.98 G.S-115.52					323

1 2	3	4	5	6	7	8	9	10	11	12	13-	14	_
11. Dharoi/Gujarat	Sabarmati	1976	5540	907.83	0.238	5(2000)	0.763	D.S-55.37 LS-50.25	11.63	0.48'	5.2	42.53	_
								G.S -105.62					
12. Emerald	Emerald	1961	58.534	156.2	0.58	1(2000)	2.83	D.S -1.78	4.24	0.1	3.03	58.82	
Avalanche/	Avalanche							LS-4.846					
Tamil Nadu								G.S-6.626					
13. Getalsud/	Subarnarekha	1971	725	288.63	0.78	1(2001)	0.968	D.S -12.65	7.3	0.24	3.63	22.29	r
Jharkhand								L.S-8.41					
								G.S-21.06					
14. Mayurakshi/	Mayurakshi	1954	1860	608.2	0.375	6(2001)	0.557	D.S -13.93	8.01	0.17	6.29	21.83	,
West								LS - 34.78					ı
								G.S-48.71					
15. Minimata/	Hasdeo	1990	6730	3416	0.55	1(2001)	0.678	D.S-29.27	1.47	0.13	0.71	7.74	
Chhattisgarh								LS-21.54					
								G.S-5021					
l6. Ukai/ Gujarat	Tapi	1972	62,225	8511	1.49	4(2001)	3.37	D.S-660.71	7.16	0.25	0	46.58	
			•					LS - 0.00			-		
								G.S -609.0					•

17. Srisailam/AP	Krishna	1976	206030	8724.88	0.079	5(2001)	0.3152	D.S -446 LS-1177.45	20.5	0.82	18.66	28.63	Written Answers
18. Gandhisagar/MP	Chambal	1960	23025	9746	0.363	2(2001)	0.55	G.S-1623.4 D.S279	6.71	0.16	3.49	33.4	Answers
								L.S-241 G.S-520					to
19. Nagarjuna- sagar/ AP	Krishna	1967	215185	11553	0.215	4(2001)	0.307	D.S-1562 LS - 692 G.S-2243	19.41	0.57	9.96	33.14	
20. Watrak/Gujarat	Watrak	1984	1113.7	177	0.203	2(2003)	0.728	D.S-1.60 L.S -13.80 G.S -15.40	8.7	0.46	8.9	7.07	[13 AUG, 2012]
21. Warna/ (Maharastra)	Warna	1984	301	974.19	6.473	2(2003)	8.594	D.S-34.24 L.S-14.91 G.S-49.15	5.04	0.26	1.9	17.6	_
22. Ravisankarsagar/ (Chhattisgarh)	Mahanadi	1979	3670	909.32	0.389	2(2003)	0.32	D.S-19.00 L.S-09.20 G.S - 28.20	3.1	0.13	1.2	13.13	Unstarred Que
23. Badua/(Bihar)	Badua	1965	480.7	129.245	0.357	1(2006)	0.802	D.S-5.714 L.S 10.099 G.S-15.813	7.98	0.29	6.2	2.92	Questions 325

2	3	4	5	6	7	8	9	10	11	12	13-	14
24. Kangsabati/	Kangsabati	1965	3626	1070.01	0.43	1(2006)	0.907	D.S -63.88	11.97	0.29	9.41	40.92
(West)								L.S-64.2				
								G.S -128.08				
25. Rengali/Odisha	Brahmani	1982	25250	5247.3	03.91	1(2006)	1.255	D.S-369.63	14.5	0.604	10.71	37.38
								L.S-391.21				
								G.S - 760.84				
26. Bhavanisagar/	Bhavani	1953	4201.79	932.78	0.05	1(2006)	0.388	D.S-11.22	9.27	0.175	8.41	53.17
Tamilnadu								LS - 75.232				
								G.S -86.452				
27. Idamalayar/	Idamalayar	1986	481.29	1208.23	_	1(2011)	2.66	D.S31.04	2.65	0.11	0.089	43.11
Kerala								L.S1.01				
								G.S32.043				
8. Salaulim/Goa	Sanguem	1990	209	222.28	_	1(2011)	6.75	D.S-1.244	13.32	0.63	12.94	40.57
								L.S -28.356				
								G.S -29.60				
29. Upper Wardha/	Wardha	1993	4302	802.98	0.642	1(2011)	0.614	D.S -13.01	5.91	0.33	5.63	6.83
Maharashtra						, ,		L.S-34.48		0.55	2.03	
								G.S-47.49				

30. Bhadra/ Karnataka	Bhadra	1964	1968.40	2025.87		1(2012)	1.035	D.S -20.10 L.S-75.64 G.S-95.75	4.73	0.10	4.24	8.35	Written Answers
31. Panchet/ Jharkhand	Damodar	1956	10966	1580.94	0.667	7 (2012)	0.80	D.S -130.8 LS -84.26 G.S -387.5	24.54 .	0.45	44	55.40	swers to
32. Ranapratap sagar/ Rajasthan	Chambal	1970	25305	3128.11		1 (2012)	0.416	D.S -238.6 L.S-0.00 G.S -238.6	7.63	0.19		16.89	
33. Upper Kolab/ Odisha	Kolab	1986	1630	1215	0.70	1 (2012)	3.461	D.S -65.24 L.S -75.81 G.S -141.1	11.61	0.46	8.11	23.30	[13 AUG, 2
34 Bhima/ Maharashtra	Bhima	1977	14858	3320		1(2012)	1.013	D.S3 15.52 L.S108.39 G.S423.91	12.77	0.38	7.14	17.50	2012] <i>U</i>
35. Durgapur	Damodar	1955	2295	6.14		1(2011)	0.042	D.S3.252 L.S2.161 G.S 5.413	45.56	0.816	20.67	56.56	Unstarred Qu
36. Dudhwa	Mahanadi	1964	625.27	288.65		1(2011)	0.95	D.S3.498 L.S25.02 G.S 28.518	9.88	0.21	8.81	77.22	Questions 327