

GOVERNMENT OF INDIA
MINISTRY OF WATER RESOURCES,
RIVER DEVELOPMENT AND GANGA REJUVENATION
LOK SABHA
STARRED QUESTION NO. †*28
ANSWERED ON 25.02.2016

NEW UNDERGROUND WATER RESOURCES

†*28. SHRI KUNWAR PUSHPENDRA SINGH CHANDEL

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

- (a) whether there is any scheme to assess and exploit new underground water resources in various parts of the country including drought prone areas;
- (b) if so, the details thereof along with the new sources identified/found out in the country including Bundelkhand region during the last three years, State/UT-wise;
- (c) the details of the various river linking projects proposed in the country; and
- (d) whether the Government is working on the project of providing water in drought prone areas of the country including the over exploited areas of the said region by linking the dams of the said areas with the Ken-Betwa river-linking project and if so, the details thereof?

ANSWER

THE HON'BLE MINISTER OF WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION (SUSHRI UMA BHARTI)

- (a) to (d) A statement is laid on the Table of the House.

STATEMENT REFERRED IN REPLY TO PARTS (a) TO (d) OF STARRED QUESTION NO. †*28 TO BE ANSWERED ON 25.02.2016 IN LOK SABHA REGARDING “NEW UNDERGROUND WATER RESOURCES” ASKED BY SHRI KUNWAR PUSHPENDRA SINGH CHANDEL, HON’BLE M.P, LOK SABHA:

(a) & (b) During XII Plan period Central Ground Water Board is implementing the Central Sector Scheme ‘Ground Water Management & Regulation’ in which aquifer mapping is a component. The aim of the Aquifer Mapping is to delineate aquifer disposition on a scale of 1:50000 in 3D and their characterization along with quantification for preparation of aquifer/ area specific ground water management plans. It is proposed to cover an area of 8.89 lakh sq.km. in the priority areas characterized by Over-Exploited, Critical and Semi-critical ground water assessment units, as well as water quality and other problematic/ vulnerable areas. The States covered in the priority area inter-alia include Rajasthan, Haryana, Punjab, Gujarat, Tamil Nadu, Karnataka, Andhra Pradesh and Telengana as well as the water scarce Bundelkhand Region of Uttar Pradesh and Madhya Pradesh. State wise details of cumulative progress of the last three years is given in Annexure -I

(c) Ministry of Water Resources, River Development & Ganga Rejuvenation has formulated a National Perspective Plan for water resources development envisaging inter-basin transfer of water in the Country. Under the National Perspective Plan (NPP), 14 links under Himalayan Rivers Component and 16 links under Peninsular Rivers Component have been identified based on field survey and investigation and detailed studies. The present status of links identified on rivers in various States of the Country is given at Annexure II.

(d) Ken – Betwa river linking project envisages irrigation to an area of about 7.00 lakh hectare annually in drought prone Bundelkhand region covering Chhattarpur, Tikamgarh, Panna and Shivpuri districts of Madhya Pradesh and Mahoba, Banda and Jhansi districts of Uttar Pradesh. Further Ken – Betwa Link Project will provide drinking water supply to about 13.5 lakh population in rural areas of the Chhattarpur, Tikamgarh and Panna districts of Madhya Pradesh.

Annexure referred in reply to **Part(b)** of **Lok Sabha Starred Question No.28** for **25.02.2016** regarding **“New Underground Water Resources”**

State wise cumulative progress under National Aquifer Mapping and Management Programme in the last three years

Sl. No.	State	Area covered
		(in Km ²)
1	Bihar	2208
2	Chhattisgarh	1604
3	Gujarat	6600
4	Haryana *	24006
5	Jammu & Kashmir	2300
6	Karnataka	5938
7	Kerala	700
8	Madhya Pradesh **	2179
9	Maharashtra	8492
10	Odisha	2977
11	Punjab	8499
12	Rajasthan	13808
13	Tamil Nadu	7130
14	Telangana	4547
15	West Bengal	2977
16	Uttar Pradesh***	17893
17	NCT Delhi	1483
18	Area covered under pilot aquifer mapping in parts of five States (Rajasthan, Maharashtra, Karnataka, Tamil Nadu and Bihar)	3006
	Total	116347

* Include National Capital Region – 13428 sq.km.; Other areas – 10578 sq.km.

** Include Bundelkhand Region – 895 sq.km; Other areas – 1284 sq.km.

*** Include Bundelkhand Region – 3500 sq.km.; National Capital Region – 10800 sq.km.; other areas – 3593 sq.km.

*Annexure referred in reply to **Part(c)** of Lok Sabha Starred Question No.28 for 25.02.2016 regarding “New Underground Water Resources”*

Present status of Inter Basin Water Transfer Links

Sl. No	Name	Rivers	States concerned	States benefited	Status
Peninsular Component					
1	Mahanadi (Manibhadra) - Godavari (Dowlaiswaram) link	Mahanadi & Godavari	Odisha, Maharashtra, Andhra Pradesh, Karnataka, & Chattisgarh,	Andhra Pradesh & Odisha	Feasibility Report Completed
2	Godavari (Inchampalli) - Krishna (Pulichintala) link	Godavari & Krishna	-do-	-do-	Feasibility Report Completed
3	Godavari (Inchampalli) - Krishna (Nagarjunasagar) link	Godavari & Krishna	Odisha, Maharashtra, Madhya Pradesh, Andhra Pradesh, Karnataka & Chattisgarh,	-do-	Feasibility Report Completed
4	Godavari (Polavaram) - Krishna (Vijayawada) link	Godavari & Krishna	Odisha, Maharashtra, Andhra Pradesh, Karnataka, & Chattisgarh,	Andhra Pradesh	Feasibility Report Completed
5	Krishna (Almatti) – Pennar link	Krishna & Pennar	-do-	Andhra Pradesh & Karnataka	Feasibility Report Completed
6	Krishna (Srisailem) – Pennar link	Krishna & Pennar	-do-	--	Feasibility Report Completed
7	Krishna (Nagarjunasagar) - Pennar (Somasila) link	Krishna & Pennar	Maharashtra, Andhra Pradesh & Karnataka,	-do-	Feasibility Report Completed
8	Pennar (Somasila) - Cauvery (Grand Anicut) link	Pennar & Cauvery	Andhra Pradesh, Karnataka, Tamil Nadu, Kerala & Puducherry	Andhra Pradesh, Tamil Nadu & Puducherry	Feasibility Report Completed
9	Cauvery (Kattalai) - Vaigai -Gundar link	Cauvery, Vaigai & Gundar	Karnataka, Tamil Nadu, Kerala & Puducherry	Tamil Nadu	Feasibility Report Completed
10	Ken-Betwa link a) Ken-Betwa Link Phase-I b) Ken-Betwa link Phase-II	Ken & Betwa	Uttar Pradesh & Madhya Pradesh - do-	Uttar Pradesh & Madhya Pradesh Madhya Pradesh	DPR Phase-I completed in April 2010& DPR Phase-II Completed in January 2014
11	Parbati -Kalisindh-Chambal link	Parbati, Kalisindh & Chambal	Madhya Pradesh, Rajasthan & Uttar Pradesh (UP requested to be consulted during consensus building)	Madhya Pradesh & Rajasthan	Feasibility Report Completed
12	Par-Tapi-Narmada link	Par, Tapi & Narmada	Maharashtra & Gujarat	Gujarat	DPR Completed in August 2015.
13	Damanganga - Pinjal link (As per DPR)	Damanganga & Pinjal	Maharashtra & Gujarat	Maharashtra (only water supply to Mumbai)	DPR Completed in March 2014.
14	Bedti - Varda link	Bedti & Varda	Maharashtra, Andhra Pradesh & Karnataka	Karnataka	Pre-Feasibility Report Completed

15	Netravati – Hemavati link	Netravati & Hemavati	Karnataka, Tamil Nadu & Kerala	Karnataka	Pre-Feasibility Report Completed
16	Pamba - Achankovil - Vaippar link	Pamba, Achankovil & Vaippar	Kerala & Tamil Nadu,	Tamil Nadu	Feasibility Report Completed
Himalayan Component					
1.	Manas-Sankosh-Tista-Ganga (M-S-T-G) link	Manas-Sankosh-Tista-Ganga	Assam, West Bengal, Bihar & Bhutan	Assam, West Bengal & Bihar	FR in progress
2.	Kosi-Ghaghra link	Kosi & Ghaghra	Bihar , Uttar Pradesh & Nepal	Bihar & Uttar Pradesh	FR in Indian portion in progress
3.	Gandak-Ganga link	Gandak & Ganga	-do-	Uttar Pradesh	Draft FR completed(for Indian portion)
4.	Ghaghra-Yamuna link	Ghaghra & Yamuna	-do-	Uttar Pradesh	FR completed (for Indian portion)
5.	Sarda-Yamuna link	Sarda & Yamuna	Bihar, Uttar Pradesh, Haryana, Rajasthan, Uttarakhand & Nepal	Uttar Pradesh & Uttarakhand	FR completed (for Indian portion)
6.	Yamuna-Rajasthan link	Yamuna & Sukri	Uttar Pradesh, Gujarat, Haryana & Rajasthan	Haryana & Rajasthan	Draft FR completed
7.	Rajasthan-Sabarmati link	Sabarmati	-do-	Rajasthan & Gujarat	Draft FR completed
8.	Chunar-Sone Barrage link	Ganga & Sone	Bihar & Uttar Pradesh	Bihar & Uttar Pradesh	Draft FR completed
9.	Sone Dam – Southern Tributaries of Ganga link	Sone & Badua	Bihar & Jharkhand	Bihar & Jharkhand	FR in progress
10.	Ganga(Farakka)-Damodar-Subernarekha link	Ganga, Damodar & Subernarekha	West Bengal, Odisha & Jharkhand	West Bengal, Odisha & Jharkhand	Draft FR completed
11.	Subernarekha-Mahanadi link	Subernarekha & Mahanadi	West Bengal & Odisha	West Bengal & Odisha	Draft FR Completed
12.	Kosi-Mechi link	Kosi & Mechi	Bihar , West Bengal & Nepal	Bihar	PFR completed. FR to be taken up Entirely lies in Nepal
13.	Farakka-Sunderbans link	Ganga & Ichhamati	West Bengal	West Bengal	Draft FR completed
14.	Jogighopa-Tista-Farakka link (Alternative to M-S-T-G)	Manas, Tista & Ganga	-do-	Assam, West Bengal & Bihar	Alternative to M-S-T-G Link. Not to be taken up.

FR -- Feasibility Report
PFR – Pre feasibility Report
DPR – Detailed Project Report
S&I -- Survey and Investigation
MCM -- Million Cubic Meters
