

GOVERNMENT OF INDIA
MINISTRY OF WATER RESOURCES,
RIVER DEVELOPMENT & GANGA REJUVENATION
LOK SABHA
UNSTARRED QUESTION NO. 2641
ANSWERED ON 02.08.2018

IMPACT OF CHANGING COURSE OF RIVERS

2641. SHRI RAJIV PRATAP RUDY

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

- (a) whether it is a fact that the Government takes up issues pertaining to inter-State river water sharing and changing course of rivers in the inter-State council meeting;
- (b) if so, the salient features and the guidelines for taking up issues pertaining to desilting and changing course of rivers along with their impact in the said meetings;
- (c) whether the Government is aware that changing course of rivers Ganga and Sarayu on the border of Bihar and Uttar Pradesh has affected more than 25 villages in Saran district of Bihar and Balliya district of Uttar Pradesh and if so, the details thereof; and
- (d) whether the Government is taking any action and holding consultations with the respective States for coordination and to ensure that the villages are not inundated by floods due to changing course of these rivers and if so, the details thereof?

ANSWER

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

(SHRI ARJUN RAM MEGHWAL)

(a) & (b) As per the Presidential Order dated 28.5.1990 issued under Article 263 of the Constitution, the Inter-State Council is a recommendatory body and has been assigned the duties of (i) investigating and discussing such subjects, in which some or all of the States or the Union and one or more of the States have a common interest, as may be brought up before it; (ii) making recommendations upon any such subject and in particular recommendations for the better coordination of policy and action with respect to that subject; and (iii) deliberating upon such other matters of general interest to States as may be referred by the Chairman of the Council. Accordingly, such subjects which are referred to the Council by the State Governments are taken up for discussion in the meetings of the Council. As the Council has not been assigned the duties and responsibilities of “inquiring into and advising upon disputes which may have arisen between States” as envisaged under Article 263 (a) of the Constitution, disputes between the States are not being discussed in the meeting of the Council.

(c) Erosion and deposition are natural processes of a river, due to which morphology of a river changes with time. A Memorandum of Understanding was signed between IIT, Roorkee and Central Water Commission to carry out the morphological study of river Ganga. In the study, shifting of the Ganga river is calculated on the basis of center line of year 2010. Center line of year 2010 is perpendicularly bisected at a regular interval of 2 km. The shift of left bank, right bank and center line in left and right directions has been computed for the years 1970, 1980, 1990 and 2000 with respect to year 2010 in GIS software. The details of the Changes in the Course of Ganga River of Year 1970, 1980, 1990 and 2000 w.r.t. 2010 near Saran and Balia district are attached at **Annexure-I**. No study for assessment of change in course of Sarayu river is available.

(d) The subject of flood management including erosion control falls within the purview of the States. The flood management & anti-erosion schemes are planned, investigated and implemented by the State Governments with their own resources as per priority within the State. The Union Government renders technical guidance and promotional financial assistance to States.

The Government of India had launched Flood Management Programme (FMP) in XI Plan which was continued during XII Plan for providing Central Assistance to States for works related to flood control, river management, anti-erosion, drainage development, flood proofing, restoration of damaged flood management works, anti-sea erosion, catchment area treatment, etc.

For 11 Ganga basin States on issues of common interest pertaining to flood management aspects, Ganga Flood Control Commission (GFCC) holds periodic consultation with stake holder States. The issue of inundation on the border of Uttar Pradesh and Bihar on river Ganga and Sarayu was also discussed in the recently held 51st meeting of GFCC and States were sensitised on this issue

ANNEXURE REFERRED TO IN REPLY TO PART (c) of UNSTARRED QUESTION NO. 2641 TO BE ANSWERED IN LOK SABHA ON 02.08.2018 REGARDING “IMPACT OF CHANGING COURSE OF RIVERS”

Erosion and sedimentation area from remote sensing imagery have been calculated between 1970 & 2010 for Ganga River, which are detailed below:-

Erosion and deposition of Ganga river on the basis of extreme left and right banks

Chainage (km)	Erosion (ha)	Deposition (ha)	Erosion + Deposition (ha)	Net Erosion/Deposition (ha)	Remarks (nearby places in reach)
0-50	-4289.32	724.00	3402.12	-3565.32	0- Farraka
50-100	-5381.91	4658.13	4093.43	-723.78	Shibganj
100-150	-4145.91	10973.13	3769.99	6827.22	
150-200	-3004.61	13231.59	5450.95	10226.98	
200-250	-2118.45	9999.95	4741.05	7881.50	Munger
250-300	-1404.24	1063.55	4103.81	-340.69	Begusarai
300-350	-1580.38	5653.20	1314.52	4072.82	Barhiya
350-400	-1044.42	2161.91	1150.81	1117.49	Near Patna
400-450	-1628.96	1136.23	2727.92	-492.73	
450-500	-2527.75	3941.74	4106.60	1413.98	Ghazipur
500-550	-1506.72	4675.85	2309.24	3169.13	Simri
550-600	-899.28	1694.85	690.36	795.57	
600-650	-345.87	1764.76	178.24	1418.88	Deoria
650-700	-229.89	936.23	28.98	706.35	
700-750	-236.53	492.82	215.15	256.29	Mughal Sarai
750-800	-263.38	553.54	25.69	290.16	Mirzapur
800-850	-227.29	471.58	14.83	244.30	
850-900	-654.12	1298.49	104.22	644.37	
900-950	-391.39	1376.94	314.72	985.55	Allahabad
950-1000	-706.26	947.45	1511.31	241.20	
1000-1050	-197.71	361.38	414.49	163.67	Mandwa
1050-1100	-165.76	361.311	351.58	195.55	Firozpur
1100-1150	-1063.71	871.722	910.69	-191.99	
1150-1200	-525.05	2864.53	1154.23	2339.48	Mirzapur
1200-1250	-1152.82	455.92	2314.63	-696.90	
1250-1300	-889.097	1210.67	1264.6871	321.57	
1300-1350	-414.813	4096.74	1131.719	3681.93	
1350-1400	-1325.17	2360.23	2797.689	1035.06	
1400-1450	-1044.87	7105.65	1650.489	6060.78	
1450-1500	-622.398	3782.85	489.5068	3160.46	
1500-1550	-662.921	2399.16	1293.3263	1736.25	
1550-1600	-698.62	2399.16	1287.407	1700.55	
1600-1650	-1409.39	2495.08	2864.4	1085.70	
1650-1700	-1169.68	6602.27	3113.245	5432.59	Bijnor
1700-1750	-745.495	1816.87	999.016	1071.38	Haridwar
1750-1800	-26.13	149.78	61.71	123.65	Rishikesh
1800-1824	-0.62	4.3	1.636	3.68	1824- Devprayag
Total	-44700.92	107093.60	62354.38	62392.68	

O chainage is Farakka Barrage Project

* '-' indicates erosion and '+' indicates deposition