

GOVERNMENT OF INDIA
MINISTRY OF JAL SHAKTI,
DEPARTMENT OF WATER RESOURCES, RIVER DEVELOPMENT & GANGA REJUVENATION
LOK SABHA
UNSTARRED QUESTION NO. 906
ANSWERED ON 21.11.2019

INTER-LINKING OF RIVERS

906. SHRI DEVUSINH JESINGBHAI CHAUHAN
SHRI KESINENI SRINIVAS

Will the Minister of JAL SHAKTI be pleased to state:

- (a) the current status of inter-linking of rivers under the National Perspective Plan of the Government, river/State-wise, along with the expenditure estimated to be incurred in linking of each river;
- (b) whether any suggestions/requests/ objections have been received from certain States in this regard including request from Andhra Pradesh for linking Krishna-Godavari rivers and if so, the details thereof including the action taken thereon;
- (c) the quantum of funds allocated/ released/spent, if any, for the purpose so far, State/UT-wise;
- (d) whether the Government has conducted or plans to conduct a social impact and environmental assessment of the effect on the livelihood of the people living in area likely to be affected due to the project and if so, the details thereof; and
- (e) the time by which each river linking is likely to be started/completed along with the benefits likely to accrue therefrom?

ANSWER

THE MINISTER OF STATE FOR JAL SHAKTI & SOCIAL JUSTICE AND EMPOWERMENT
(SHRI RATTAN LAL KATARIA)

(a) & (b) The National Perspective Plan (NPP) was prepared by the then Ministry of Irrigation (now Ministry of Jal Shakti) in August 1980 for water resources development through inter basin transfer of water, for transferring water from water surplus basins to water-deficit basins. Under the NPP, the National Water Development Agency (NWDA) has identified 30 links (16 under Peninsular Component and 14 under Himalayan Component) for preparation of Feasibility Reports (FRs). The details of above river linking projects viz., rivers, States concerned is given at **Annexure-I**.

Under the NPP, four priority links have been identified for preparation of Detailed Project Reports (DPR) under the Peninsular Rivers Component viz; Ken-Betwa link project (KBLP), Damanganga-Pinjal link project, Par-Tapi-Narmada link project and Godavari-Cauvery link project. The DPRs of KBLP, Damanganga-Pinjal link project and Par-Tapi-Narmada link project have been sent to the concerned States.

Further, draft DPR of Godavari-Cauvery link project consisting of three links viz; Godavari (Inchampalli/Janampet) – Krishna (Nagarjunasagar), Krishna (Nagarjunasagar) – Pennar (Somasila), Pennar (Somasila)-Cauvery (Grand Anicut) link projects has been completed and circulated to party States in March 2019.

The details of the estimated cost of the four priority links of the inter-linking of rivers (ILR) projects under NPP is given at **Annexure-II**.

Government of Karnataka, Telangana and Tamil Nadu have furnished suggestions/comments on the draft DPR of Godavari-Cauvery link project which have been taken into consideration.

(c) No fund has been allocated/released/spent as no ILR project has reached the stage of execution.

(d) At the time of preparation of DPR of individual inter-linking of river projects, detailed Environmental Impact Assessment (EIA) studies as per Terms of Reference approved by Environmental Appraisal Committee (EAC) of Ministry of Environment and Forests & Climate Change are carried out. The environmental impacts and issues arising out of the EIA studies are addressed in Environmental Management Plan which forms a part of DPR.

Socio-economic impact assessment including Resettlement and Rehabilitation (R&R) Plan in respect of project affected persons is an integral part of implementation of any link project and is included in the DPR.

(e) The implementation of river link projects involves various steps such as preparation of Pre Feasibility Reports/ Feasibility Reports of links, negotiation and consensus among concerned States, preparation of DPRs of the projects, clearances from Ministry of Environment and Forests and Climate Change, Ministry of Tribal Affairs, techno-economic clearance by Advisory Committee on Irrigation, Flood control & multipurpose projects of Ministry of Jal Shakti and investment clearance.

The stage of implementation of a project would be reached after its DPR is prepared with the consensus of concerned States and the requisite statutory clearances are obtained.

The implementation of NPP would give benefit of 25 million ha of irrigation from surface water, 10 million ha by increased use of ground water, raising the ultimate irrigation potential from 140 million ha to 175 million ha and generation of 34 million KW of power, apart from the incidental benefits of flood control, drought mitigation, navigation, water supply, fisheries, salinity and pollution control etc.

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 906 TO BE ANSWERED IN LOK SABHA ON 21.11.2019 REGARDING “INTER-LINKING OF RIVERS”.

Names of Inter Basin Water Transfer Links, the States involved, name of rivers and status of Feasibility Reports/Detailed Project Report

Sl. No	Name	Rivers	States concerned	Status of PFR/FR/DPR
Peninsular Component				
1	Mahanadi (Manibhadra) - Godavari (Dowlaiswaram) link	Mahanadi & Godavari	Odisha, Maharashtra, Andhra Pradesh, Karnataka, & Chattisgarh	FR Completed
2	Godavari (Inchampalli) - Krishna (Pulichintala) link	Godavari & Krishna	-do-	FR Completed
3	Godavari (Inchampalli) - Krishna (Nagarjunasagar) link	Godavari & Krishna	Odisha, Maharashtra, Madhya Pradesh, Andhra Pradesh, Karnataka & Chattisgarh,	FR Completed
4	Godavari (Polavaram) - Krishna (Vijayawada) link	Godavari & Krishna	Odisha, Maharashtra, Andhra Pradesh, Karnataka, & Chattisgarh	FR Completed
5	Krishna (Almatti) – Pennar link	Krishna & Pennar	-do-	FR Completed
6	Krishna (Srisailem) – Pennar link	Krishna & Pennar	-do-	FR Completed
7	Krishna (Nagarjunasagar) - Pennar (Somasila) link	Krishna & Pennar	Maharashtra, Andhra Pradesh & Karnataka,	FR Completed
8	Pennar (Somasila) - Cauvery (Grand Anicut) link	Pennar & Cauvery	Andhra Pradesh, Karnataka, Tamil Nadu, Kerala & Puducherry	FR Completed
9	Cauvery (Kattalai) - Vaigai -Gundar link	Cauvery, Vaigai & Gundar	Karnataka, Tamil Nadu, Kerala & Puducherry	FR Completed
10	Ken-Betwa link	Ken & Betwa	Uttar Pradesh & Madhya Pradesh	FR & DPR (Ph-I&II) Completed
11	Parbati -Kalisindh-Chambal link	Parbati, Kalisindh & Chambal	Madhya Pradesh, Rajasthan & Uttar Pradesh (UP requested to be consulted during consensus building)	FR Completed
12	Par-Tapi-Narmada link	Par, Tapi & Narmada	Maharashtra & Gujarat	FR & DPR Completed
13	Damanganga - Pinjal link	Damanganga & Pinjal	Maharashtra & Gujarat	FR & DPR Completed
14	Bedti - Varda link	Bedti & Varda	Maharashtra, Andhra Pradesh & Karnataka	PFR Completed
15	Netravati – Hemavati link	Netravati & Hemavati	Karnataka, Tamil Nadu & Kerala	PFR Completed
16	Pamba - Achankovil - Vaippar link	Pamba, Achankovil & Vaippar	Kerala & Tamil Nadu,	FR Completed
				Contd.

Sl. No	Name	Rivers	States concerned	Status of PFR/FR/DPR
Himalayan Component				
1.	Manas-Sankosh-Tista-Ganga (M-S-T-G) link	Manas-Sankosh-Tista-Ganga	Assam, West Bengal, Bihar & Bhutan	PFR completed
2.	Kosi-Ghaghra link	Kosi & Ghaghra	Bihar, Uttar Pradesh & Nepal	PFR completed
3.	Gandak-Ganga link	Gandak & Ganga	-do-	Draft FR completed (Indian portion)
4.	Ghaghra-Yamuna link	Ghaghra & Yamuna	-do-	FR completed (Indian portion)
5.	Sarda-Yamuna link	Sarda & Yamuna	Bihar, Uttar Pradesh, Haryana, Rajasthan, Uttarakhand & Nepal	FR completed (Indian portion)
6.	Yamuna-Rajasthan link	Yamuna & Sukri	Uttar Pradesh, Gujarat, Haryana & Rajasthan	Draft FR completed
7.	Rajasthan-Sabarmati link	Sabarmati	-do-	Draft FR completed
8.	Chunar-Sone Barrage link	Ganga & Sone	Bihar & Uttar Pradesh	Draft FR completed
9.	Sone Dam – Southern Tributaries of Ganga link	Sone & Badua	Bihar & Jharkhand	PFR completed
10.	Ganga(Farakka)-Damodar-Subernarekha link	Ganga, Damodar & Subernarekha	West Bengal, Odisha & Jharkhand	Draft FR completed
11.	Subernarekha-Mahanadi link	Subernarekha & Mahanadi	West Bengal & Odisha	Draft FR Completed
12.	Kosi-Mechi link	Kosi & Mechi	Bihar, West Bengal & Nepal	PFR completed Entirely lies in Nepal
13.	Ganga (Farakka)-Sunderbans link	Ganga & Ichhamati	West Bengal	Draft FR completed
14.	Jogighopa-Tista-Farakka link (Alternative to M-S-T-G)	Manas, Tista & Ganga	-do-	(Alternative to M-S-T-G Link) dropped

- PFR- Pre Feasibility Report
- FR- Feasibility Report
- DPR- Detailed Project Report

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The estimated cost of the four prioritised inter-linking of rivers projects

Sl No	Name of the link project	Estimated cost (Rs. in Crore)	Price level
1	Ken-Betwa Link Project (Comprehensive DPR)	35111.24	2017-18
2	Damanganga-Pinjal Link Project	2746.61	2012-13
3	Par-Tapi-Narmada Link Project	10211.24	2014-15
4	Godavari(Inchampalli/Janampet)-Cauvery (Grand Anicut) Link Project	Varies from 60360.88 to 90562.56 in different alternates	2018-19

- DPR- Detailed Project Report

*The cost of the remaining link projects will be known after preparation of DPRs of respective link projects.
