

Linking of major-minor rivers

†*277. SHRI RAM JETHMALANI: Will the Minister of WATER RESOURCES be pleased to state:

- (a) whether it is a fact that it is necessary to implement the scheme of linking major-minor rivers for better management of water in the country;
- (b) if so, Government's reaction thereto;
- (c) the number of proposals received by Government in the country during the last three years for linkage of rivers along with the names of respective rivers to be interlinked; and
- (d) the action taken by Government for implementation of each proposal?

THE MINISTER OF WATER RESOURCES (SHRI PAWAN KUMAR BANSAL): (a) Yes, Sir.

(b) to (d) The Ministry of Water Resources (MOWR) (erstwhile Ministry of Irrigation) formulated a National Perspective Plan (NPP) for Water Resources Development in 1980 envisaging inter-basin transfer of water from surplus basins to deficit basins/areas which comprises two components, namely, Himalayan Rivers Development Component and Peninsular Rivers Development Component. National Water Development Agency (NWDA) was set up under the MOWR in 1982 for carrying out various technical studies to establish the feasibility of the proposals of NPP and to give concrete shape to it. Based on various studies conducted, NWDA has identified 30 links (16 under Peninsular Component & 14 under Himalayan Component) for preparation of Feasibility Reports (FRs). Out of these, FRs of 14 links under Peninsular Component and FRs of 2 links (Indian Portion) under Himalayan Component have been completed.

The National Common Minimum Programme (NCMP) of the last UPA Government indicated that it would make a comprehensive assessment of the feasibility of linking the rivers of the country starting with the south-bound rivers and this assessment would be done in a fully consultative manner. It would also explore the feasibility of linking sub-basins of rivers in states like Bihar. After

†Original notice of the question was received in Hindi.

the comprehensive assessment, it was decided that river linking programme be continued with a focus on peninsular rivers. Five links under Peninsular Component namely (i) Ken-Betwa, (ii) Parbati-Kalisindh-Chambal, (iii) Damanganga-Pinjal, (iv) Par-Tapi-Narmada & (v) Godavari (Polavaram)-Krishna (Vijayawada) were identified as priority links for building consensus among the concerned states for taking up their DPRs. Also, the preparation of Detailed Project Reports (DPRs) of link projects and pre-feasibility/ feasibility reports of intra-state links as proposed by States were included in the functions of NWDA vide resolution dated 30.11.2006.

Detailed Project Report (DPR) of one priority link namely, Ken – Betwa was completed and sent to the Governments of Madhya Pradesh and Uttar Pradesh for comments. The Government of Madhya Pradesh has suggested an alternative proposal. Now the DPR of the project is to be prepared for two phases. The DPR of the phase-I has been completed and sent to the Government of Madhya Pradesh and Uttar Pradesh in May 2010 for comments. Further, NWDA has taken up the DPRs of two more priority links after concurrence of the concerned states, namely Par – Tapi – Narmada and Damanganga – Pinjal which are planned to be completed by December, 2011. Another priority link namely, Godavari (Polavaram) – Krishna (Vijaywada) link is part of the Polavaram project of the Andhra Pradesh. Planning Commission has given investment clearance to the Polavaram Project and the Government of Andhra Pradesh has taken up the above project including link component as per their proposals.

The consensus building for eight more links under Mahanadi-Godavari-Krishna-Pennar-Cauvery-Vaigai-Gundar linkage system for taking up their DPRs with concerned states has been initiated. The link-wise status of inter-linking of rivers proposals under NPP is furnished in the given Statement-I (See below).

So far, NWDA has received 36 proposals of intra-state links from 7 States viz. Maharashtra, Gujarat, Jharkhand, Orissa, Bihar, Rajasthan and Tamil Nadu. Out of above, pre-Feasibility Reports (PFRS) of 121 intra-state links have been completed by NWDA. Details of intra-state link proposals received from the State Governments along with the names of respective rivers to be interlinked and status of studies is given in the Statement-II (See below).

The implementation of the Inter-linking of Rivers proposals under NPP depends on the consensus and cooperation of the concerned States and agreements with neighboring countries (in case of link proposals under the Himalayan Component).

Statement – I

List of water transfer links identified under NPP and their status

Peninsular Rivers Development Component

- | | | |
|-----|---|--------------------------------|
| 1. | Mahanadi (Manibhadra) – Godavari (Dowlaiswaram) link | - FR completed |
| 2. | Godavari (Polavaram) – Krishna (Vijayawada) link * their own proposal | - Taken up by the state as per |
| 3. | Godavari (Inchampalli) – Krishna (Pulichintala) link | - FR completed |
| 4. | Godavari (Inchampalli) – Krishna (Nagarjunasagar) link | - FR completed |
| 5. | Krishna (Nagarjunasagar) – Pennar (Somasila) link | - FR completed |
| 6. | Krishna (Srisailem) – Pennar link | - FR completed |
| 7. | Krishna (Almatti) – Pennar link | - FR completed |
| 8. | Pennar (Somasila) – Cauvery | - FR completed |
| 9. | Cauvery (Kattalai) – Vaigai – Gundar link | - FR completed |
| 10. | Parbati – Kalisindh – Chambal link * | - FR completed |
| 11. | Damanganga – Pinjal link * | - FR completed & DPR taken up |
| 12. | Par – Tapi – Narmada link * | - FR completed & DPR taken up |
| 13. | Ken – Betwa link * | - DPR of phase I Completed |
| 14. | Pamba – Achankovil – Vaippar link | - FR completed |
| 15. | Netravati – Hemavati link | - PFR completed |
| 16. | Bedti – Varda link | - FR taken up |

Himalayan Rivers Development Component

- | | | |
|-----|---|-------------------------------------|
| 1. | Kosi – Mechi link | - Entirely lies in Nepal |
| 2. | Kosi – Ghaghra link | - S&I works taken up |
| 3. | Gandak – Ganga link | - S&I works taken up |
| 4. | Ghaghra – Yamuna link | - FR completed (for Indian portion) |
| 5. | Sarda – Yamuna link | - FR completed (for Indian portion) |
| 6. | Yamuna – Rajasthan link | - S&I works completed |
| 7. | Rajasthan – Sabarmati link | - S&I works completed |
| 8. | Chunar – Sone Barrage link | - S&I works completed |
| 9. | Sone Dam – Southern Tributaries of Ganga link | - S&I works taken up |
| 10. | Manas-Sankosh-Tista-Ganga (M-S-T-G) link | - S&I works taken up |
| 11. | Jogighopa-Tista-Farakka (Alternate to M-S-T-G) link | - S&I works taken up |
| 12. | Farakka – Sunderbans link | - S&I works completed |
| 13. | Ganga – Damodar –Subernarekha link | - S&I works completed |
| 14. | Subernarekha – Mahanadi link | - S&I work completed |

* Priority links

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

S&I – Survey & Investigation in Indian portion.

Statement – II

Intra – State link proposals received from the State Governments

S. No.	Name of intra-state link	Present status / Target of Completion of PFR
1	2	3
Maharashtra		
1.	Wainganga (Goshikurd) – Nalganga (Purna Tapi) [Wainganga – Western Vidarbha & Pranhita – Wardha links merged and extended through Kanhan – Wardha link]	Completed
2.	Wainganga – Manjra Valley	Completed
3.	Upper Krishna – Bhima (system of Six links)	2010-11
4.	Upper Ghat – Godavari Valley	2010-11
5.	Upper Vaitarna – Godavari Valley	2010-11
6.	North Konkan – Godavari Valley	2010-11
7.	Koyna – Mumbai city	2010-11
8.	Sriram Sagar Project (Godavari) – Purna – Manjra	*
9.	Wainganga (Goshikurd) – Godavari (SRSP)	*
10.	Middle Konkan – Bhima Valley	*
11.	Koyna – Nira	*
12.	Mulsi – Bhima	*
13.	Savithri – Bhima	*
14.	Kolhapur – Sangli – Sangola	*
15.	Riverlinking projects of Tapi basin and Jalgaon District	*
16.	Nar – Par – Girna valley	*

1	2	3
17.	Narmada – Tapi	*
18.	Khariagutta – Navatha Satpura foot hills	*
19.	Kharia Ghuti Ghat – Tapi	*
20.	Jigaon – Tapi – Godavari Valley	*
Gujarat		
21.	Damanganga – Sabarmati – Chorwad	2011-12
Orissa		
22.	Mahanadi – Brahmani	Completed
23.	Mahanadi – Rushikulya (Barmul Project)	2011-12
24.	Vamsadhara – Rushikulya (Nandini Nalla project)	2011-12
Jharkhand		
25.	South Koel – Subernarekha	Completed
26.	Sankh – South Koel	Completed
27.	Barkar – Damodar – Subernarekha	Completed
Bihar		
28.	Kosi – Mechi (entirely lie in India)	Completed
29.	Barh – Nawada	Completed
30.	Kohra – Chandravat (now Kohra-Lalbegi)	Completed
31.	Burhi Gandak – None – Baya – Ganga	Completed
32.	Burhi Gandak – Bagmati (Belwadhar)	Completed
33.	Kosi – Ganga	Completed
Rajasthan		
34.	Mahi – Luni link	*
35.	Wakal – Sabarmati – Sei – West Banas–Kameri link	*
Tamil Nadu		
36.	Pennaiyar – Palar link	*

* Targets being fixed in consultations with concerned states.