

National Water Development Agency

Note on interlinking of rivers projects in the Country

Details and status

1.0 Background

Suggestions for a National water grid for transferring water from water rich regions to water-deficit areas have been made from time to time. Two proposals, put forth earlier in the seventies which attracted considerable attention, are National Water Grid by Dr. K. L. Rao and Garland Canal by Captain Dastur. These proposals were not pursued further by the Government as they were not techno-economically feasible.

The continued interest shown by various quarters gave impetus to study inter-basin water transfer proposals. The then Ministry of Irrigation (now Water Resources) formulated a National Perspective Plan (NPP) for Water Resources Development in August 1980 envisaging inter basin water transfer in the country. The National Perspective Plan comprises of two components, namely i) Peninsular Rivers Development and ii) Himalayan Rivers Development.

The National Water Development Agency (NWDA) was set up on 17th July 1982 by Government of India as a Society under Societies registration act 1860 under the Ministry of Water Resources to study the feasibility of the links under Peninsular Component of National Perspective Plan. The NWDA is fully funded by Government of India. Subsequently in 1990-91, NWDA Society resolved to take up the studies of Himalayan Component also. Further, on 28th June, 2006 preparation of DPR of link projects and pre-feasibility/ feasibility reports of intra-basin links as proposed by States were also included in the functions of NWDA Society. Accordingly, MoWR vide resolution dtd. 30.11.2006 has modified the functions of NWDA Society. The functions of NWDA were further modified vide MoWR resolution dated 19.5.2011 to undertake the work of preparation of DPRs of intra-state links also by NWDA vide Gazette notification dated June 11, 2011. Further, two new functions in the mandate of NWDA were added vide Gazette notification dated 07.10.2016.

The functions of the NWDA at present are as follows:

- (a) To carry out detailed survey and investigations of possible reservoir sites and inter-connecting links in order to establish feasibility of the proposal of Peninsular Rivers Development and Himalayan Rivers Development Components forming part of the National Perspective for Water Resources Development prepared by the then Ministry of Irrigation (now Ministry of Water Resources, RD & GR) and Central Water Commission.

- (b) To carry out detailed studies about the quantum of water in various Peninsular River systems and Himalayan River systems which can be transferred to other basins/States after meeting the reasonable needs of the basin/States in the foreseeable future.
- (c) To prepare feasibility report of the various components of the scheme relating to Peninsular Rivers development and Himalayan Rivers development.
- (d) To prepare detailed project report of river link proposals under National Perspective Plan for Water Resources Development after concurrence of the concerned States.
- (e) To prepare pre – feasibility / feasibility / detailed project reports of the intra-state links as may be proposed by the States. The concurrence of the concerned co-basin States for such proposals may be obtained before taking up their FRs / DPRs.
- (f) To undertake/construct/repair/renovate/rehabilitate/implement the projects either on its own or through an appointed Agency/Organization/PSU or Company and the projects forming part of Interlinking of Rivers, for completion of projects falling under Pradhan Mantri Krishi Sinchai Yojana (PMKSY) of which projects under Accelerated Irrigation Benefits Programme (AIBP) are also included and similar other projects.
- (g) NWDA to act as a repository of borrowed funds or money received on deposit or loan given on interest or otherwise in such manner, as directed by MoWR, RD & GR and to secure the repayment of any such borrowed funds/money/deposits/loan etc. by way of mortgage, pledge, charge or lien upon all or any other property, assets or revenue of the society both present and future.
- (h) To do all such other things the Society may consider necessary, incidental, supplementary or conducive to the attainment of above objectives.

2.0 Studies Completed by NWDA

NWDA carried out Water Balance Studies of 137 basins/sub-basins and 71 diversion points. It also carried out toposheet studies of 74 reservoirs & 37 link alignments. Based on these studies, NWDA identified 30 links (16 under Peninsular Component & 14 under Himalayan Component) for preparation of Feasibility Reports (FRs) (Details given in Annex-I). Out of these, FR of 14 links under Peninsular Component and FR of 2 links (Indian portion) and Draft FR of 7 links under Himalayan Component have been completed. Field surveys & investigations for the remaining links under Himalayan Component are under progress except one link namely Kosi-Mechi which lies entirely in Nepal.

**Studies/reports completed by National Water Development Agency under
National Perspective Plan**

Sl. No	Particulars	Peninsular Component	Himalayan Component	Total
A	Proposals under National Perspective Plan			
1.	Water balance studies of basins/sub-basins	137	--	137
2.	Water balance studies of diversion points	52	19	71
3.	Toposheet and storage capacity studies of reservoir	58	16	74
4.	Toposheet studies of link alignment	18	19	37
5.	Prefeasibility reports (PFR)	18	14	32
6.	Surveys and Investigations and Preparation of Feasibility Reports (FR) of specific links	14	2 (Indian Portion)	16
7	Detailed Project Report of link Projects	3	-	3

2.1 Detailed Project Reports (DPRs) of Priority Links

Four priority links for preparation of Detailed Project Reports (DPRs) have been identified viz; Ken-Betwa link (Phase –I & II), Damanganga-Pinjal Link, Par-Tapi-Narmada link and Mahanadi-Godavari link.

The Detailed Project Report of Ken-Betwa link project Phase-I was completed by NWDA in April, 2010 and submitted to Governments of MP and UP in May, 2010. Detailed Project Report of Ken-Betwa link project Phase-II has been completed in January, 2014 and submitted to the concerned State Governments of Madhya Pradesh and Uttar Pradesh. The various statutory clearances w.r.t. environment, forest and wildlife for Ken-Betwa Link Project-Phase-I have been obtained. The Government will be implementing this National Project as a model link project of ILR programme after the required clearances and approval.

For the two priority links namely Damanganga-Pinjal and Par-Tapi-Narmada links, a Memorandum of Understanding (MoU) was signed by the Chief Ministers of Gujarat, Maharashtra and the Union Minister for Water Resources on 3.05.2010 for the preparation of DPRs by NWDA. The DPR of Damanganga-Pinjal link has been completed in March, 2014 and submitted to Govt. of Maharashtra and Gujarat. The DPR of Par-Tapi-Narmada link project has also been completed in August, 2015 and submitted to Govt. of Gujarat and Maharashtra. The DPR of Par-Tapi-Narmada link has been modified in April, 2017 duly considering the suggestions of Government of Gujarat to include more tribal areas in the command of the project.

The consensus building for preparation of the Detailed Project Report of the Mahanadi – Godavari link, a mother link of 9 link system viz., Mahanadi – Godavari –

Krishna – Pennar – Palar – Cauvery – Vaigai – Gundar linkage with concerned State of Odisha is under process.

3.0 Intra-State Link Projects

NWDA so far has received 47 proposals of Intra-State links from 9 States viz; Maharashtra, Gujarat, Jharkhand, Odisha, Bihar, Rajasthan, Tamil Nadu, Karnataka and Chhattisgarh. The Pre-feasibility Reports (PFRs) of 36 Intra-State links have been completed. The DPR of 2 Intra-State links viz. Burhi Gandak-Noon-Baya-Ganga and Kosi-Mechi link were completed and submitted to Govt. of Bihar in December, 2013 and March, 2014 respectively. The DPRs of Ponnaiyar - Palar link of Tamil Nadu and Wainganga - Nalganga link of Maharashtra are under progress. Two intra-State links of Maharashtra: (i) Damanganga (Ekdare) – Godavari link and (ii) Damanganga-Vaitarna-Godavari link have been taken up for preparation of DPRs on consultancy basis. The present status of intra-state river link proposals received from the State Governments is given at Annex-II.

4.0 Benefits from Interlinking of Rivers Projects as per National Perspective Plan

The implementation of National Perspective Plan would give benefits of 35 million hectares of irrigation (25 million ha from surface waters and 10 million ha by increased use of ground waters), raising the ultimate irrigation potential from 140 million ha to 175 million ha and generation of 34000 Megawatt of hydro power, apart from the incidental benefits of flood control, navigation, water supply, fisheries, salinity and pollution control etc. The details of benefits from each link as per PFR/FR/DPR are shown in Annex-I.

5.0 Hon’ble Supreme Court Judgement regarding “Networking of Rivers”

5.1 Judgement of the Hon’ble Supreme Court

The Hon’ble Supreme Court in the matter of Writ Petition (Civil) No. 512 of 2002 “In Re: Networking of Rivers” alongwith Writ Petition (Civil) No. 668 of 2002 delivered a judgment dated 27.2.2012. The Hon’ble Supreme Court has directed that an appropriate body should be created to plan, construct and implement the inter linking of rivers program for the benefit of the nation as a whole.

5.2 Constitution of the Special Committee for Interlinking of Rivers

Union Cabinet in its meeting held on 24.07.2014 has approved the constitution of the “Special Committee on the Inter-linking of Rivers” in light of the judgment dated 27.02.2012 of the Hon’ble Supreme Court. The Special Committee has been constituted by the Ministry of WR, RD and GR vide Gazette Notification dated 23.09.2014. Thirteen meetings of Special Committee for Interlinking of River (ILR) have been held on dated 17.10.2014, 06.01.2015, 19.03.2015, 14.05.2015, 13.07.2015, 15.09.2015, 18.11.2015, 08.02.2016, 29.04.2016, 26.07.2016, 09.11.2016, 08.03.2017 and 27.07.2017 respectively.

The Special Committee for Interlinking of River decided to constitute various Sub-Committees. The Ministry of Water Resources, RD & GR vide O.M. dated 13.02.2015 had constituted three Sub-Committees i.e. (i) Sub-Committee for Comprehensive Evaluation of various Studies/Reports available on the issues of ILR (Sub-Committee-I); (ii) Sub-Committee for System Studies for identification of most appropriate alternative plan (Sub-Committee-II); and (iii) Sub-Committee for Restructuring of NWDA (Sub-Committee-III). The existing “Consensus Group” functioning under Chairman, CWC has been renamed as “Sub-Committee for consensus building through negotiations and arriving at agreements between the concerned States” (Sub-Committee-IV) by MoWR, RD & GR vide letter dated 20.01.2016. The Sub-Committee for Restructuring of NWDA has completed its work and submitted the Report to the Hon’ble Minister (WR, RD & GR) on 15.09.2015. The seven meeting of the Sub-Committee-I and ten meetings of the Sub-Committee-II have been held.

5.3 Constitution of Task Force for Interlinking of Rivers (ILR)

Ministry of Water Resources, River Development & Ganga Rejuvenation vide O.M. No. 2/5/2015-BM/630-645 dated 13.04.2015 has constituted a Task Force for Interlinking of River to look into the issues relating to Interlinking of Rivers. Eight meetings of the Task Force has been held on 23rd April, 2015, 5th November, 2015, 28th April, 2016, 15th June, 2016, 25th October, 2016, 13th February, 2017, 11th May, 2017 and 15th September, 2017.

5.4 Constitution of Group on legal aspects under Task Force for Interlinking of Rivers (TF-ILR)

In pursuance of the decision of the Task Force for Interlinking of Rivers taken in its 4th meeting held on 15th June 2016, a Group has been constituted vide Office Memorandum dated 18.07.2016 to look into legal aspects and required enabling Provisions for implementation of Interlinking of Rivers and other related issues. The Group has completed its assigned task and submitted its report to the Chairman, TF-ILR during March, 2017. The report was independently examined by CWC. Later 7th meeting of the Task Force was specially convened to discuss the Report of the Group on legal aspects. After discussion it was decided to obtain legal opinion on the recommendations of the Group. Based on request, Prof. Madhava Menon, Retd. Director, Bangalore Law University has submitted his opinion on 11.08.2017 which was considered by the Task Force in its meeting held on 15.09.2017.

5.5 Constitution of the Financial Group under Task Force for Interlinking of Rivers

MoWR, RD & GR vide OM dated 12.09.2017 has constituted a Group on Financial Aspects under Task Force for Interlinking of Rivers under the Chairmanship of Dr. Prodipto Ghosh, former Secretary to the Government of India and Member of the Task Force. As per terms of reference of the Group, the Group would look into the financial aspects of various inter-basin water transfer links identified by NWDA and suggest funding pattern for implementation of these links. The Group has held three meetings so far on 24.10.2017, 17.11.2017 and 08.12.2017.

6.0 Constitution of Group on Intra-State River links

Ministry of Water Resources, RD & GR vide O.M. dated 12.03.2015 constituted a Group on Intra-State river links under the Chairmanship of Shri A. D. Mohile, former Chairman, Central Water Commission. The Group has completed the assigned task and submitted its report on 28.05.2015 to the Secretary, Ministry of Water Resources, RD&GR.

7.0 NABARD Funding under PMKSY-AIBP

NWDA has been identified to act as an agency for borrowing resources from LTIF and release Central Assistance to the State Governments towards the prioritized PMKSY-AIBP (Major & Medium Irrigation) Projects and their CADWM works, for their completion in time bound manner. Memorandum of Agreement for borrowing from NABARD to fund Central share in these projects was signed by the Ministry of Water Resources, RD & GR, NWDA and NABARD on 6th September, 2016.

The loan released by NABARD is being distributed to the States and Polavaram Project Authority as per the direction of MoWR, RD & GR.

ANNEX – I

Present status of Inter Basin Water Transfer Links

Sl. No	Name	States concerned	States benefited	Annual Irrigation (Lakh ha)	Domestic and Industrial supply (MCM)	Hydro power (MW)	Status
Peninsular Component							
1	Mahanadi (Manibhadra) - Godavari (Dowlaiswaram) link	Orissa, Maharashtra, Andhra Pradesh, Karnataka, & Chattisgarh,	Andhra Pradesh & Orissa	0.91+3.52 = 4.43	802	445	Feasibility Report Completed
2	Godavari (Inchampalli) - Krishna (Pulichintala) link	Orissa, Maharashtra, Madhya Pradesh, Andhra Pradesh, Telangana, Karnataka & Chattisgarh,	Telangana & Andhra Pradesh	1.09+5.04 =6.13	413	--	Feasibility Report Completed
3	Godavari (Inchampalli) - Krishna (Nagarjunasagar) link	-do-	Telangana	2.87	237	975	Feasibility Report Completed
4	Godavari (Polavaram) - Krishna (Vijayawada) link	Orissa, Maharashtra, Andhra Pradesh, Karnataka, & Chattisgarh,	Andhra Pradesh	5.82	162	--	Feasibility Report Completed
5	Krishna (Almatti) – Pennar link	-do-	Andhra Pradesh & Karnataka	1.90+0.68 = 2.58	56	--	Feasibility Report Completed
6	Krishna (Srisaïlam) – Pennar link	Maharashtra, Andhra Pradesh, Karnataka& Telangana	--	--	--	17	Feasibility Report Completed
7	Krishna (Nagarjunasagar) - Pennar (Somasila) link	Maharashtra, Andhra Pradesh & Karnataka,	-do-	5.81	124	90	Feasibility Report Completed
8	Pennar (Somasila) - Cauvery (Grand Anicut) link	Andhra Pradesh, Karnataka, Tamil Nadu, Kerala & Puducherry	Andhra Pradesh, Tamil Nadu & Puducherry	0.49+4.36 + 0.06 = 4.91	1105	--	Feasibility Report Completed

ANNEX – I (contd..)

Sl. No	Name	States concerned	States benefited	Annual Irrigation (Lakh ha)	Domestic and Industrial supply (MCM)	Hydro power (MW)	Status
9	Cauvery (Kattalai) - Vaigai - Gundar link	Karnataka, Tamil Nadu, Kerala & Puducherry	Tamil Nadu	3.38	185	--	Feasibility Report Completed
10	Ken-Betwa link a) Ken-Betwa Link Phase-I b) Ken-Betwa link Phase-II	Uttar Pradesh & Madhya Pradesh - do-	Uttar Pradesh & Madhya Pradesh Madhya Pradesh	2.66 + 3.69 = 6.35 0.99	49 6	78	DPR Phase-I completed in April 2010 & DPR Phase-II Completed in January 2014.
11	Parbati -Kalisindh- - Chambal link	Madhya Pradesh, Rajasthan & Uttar Pradesh (UP requested to be consulted during consensus building)	Madhya Pradesh & Rajasthan	*Alt.I: 2.05+0.25 = 2.30 (Alt.II : 1.77 + 0.43 = 2.20)	13.2	--	Feasibility Report Completed
12	Par-Tapi-Narmada link	Maharashtra & Gujarat	Gujarat	2.32	76	22	DPR completed in August, 2015
13	Damanganga - Pinjal link (As per DPR)	Maharashtra & Gujarat	Maharashtra (only water supply to Mumbai)	--	895	--	DPR Completed in March 2014.
14	Bedti - Varda link	Maharashtra, Andhra Pradesh & Karnataka	Karnataka	0.60	--	4	Pre-Feasibility Report Completed
15	Netravati – Hemavati link	Karnataka, Tamil Nadu & Kerala	Karnataka	0.34	--	--	Pre-Feasibility Report Completed
16	Pamba - Achankovil - Vaippar link	Kerala & Tamil Nadu,	Tamil Nadu	0.91	--	508	Feasibility Report Completed

ANNEX – I (contd..)

S.L No.	Name of the Link	States/Country concerned	States benefited	Annual Irrigation (Lakh ha)	Domestic and Industrial supply (MCM)	Hydro power (MW)	Status
Himalayan Component							
1.	Manas-Sankosh-Tista-Ganga (M-S-T-G) link	Assam, West Bengal, Bihar & Bhutan	Assam, West Bengal & Bihar	2.08 + 1.82 + 2.64 = 6.54	--	5287	FR in progress
2.	Kosi-Ghaghra link	Bihar, Uttar Pradesh & Nepal	Bihar & Uttar Pradesh	8.17 + 0.67 + 1.74 (Nepal) = 10.58	48	--	FR in Indian portion in progress
3.	Gandak-Ganga link	-do-	Uttar Pradesh	37.99 + 2.41 (Nepal) = 40.40	700	--	Draft FR completed (for Indian portion)
4.	Ghaghra-Yamuna link	-do-	Uttar Pradesh	25.30 + 1.35 (Nepal) = 26.65	1391	10884	FR completed (for Indian portion)
5.	Sarda-Yamuna link	Bihar, Uttar Pradesh, Haryana, Rajasthan, Uttarakhand & Nepal	Uttar Pradesh & Uttarakhand	3.45 + 0.30 = 3.75	6250	3600	FR completed (for Indian portion)
6.	Yamuna-Rajasthan link	Uttar Pradesh, Gujarat, Haryana & Rajasthan	Haryana & Rajasthan	0.435 + 2.442 = 2.877	57	--	Draft FR completed
7.	Rajasthan-Sabarmati link	-do-	Rajasthan & Gujarat	5.35 + 2.04 = 7.39	282	--	Draft FR completed
8.	Chunar-Sone Barrage link	Bihar & Uttar Pradesh	Bihar & Uttar Pradesh	0.30 + 0.37 = 0.67	--	--	Draft FR completed
9.	Sone Dam – Southern Tributaries of Ganga link	Bihar & Jharkhand	Bihar & Jharkhand	2.99 + 0.08 = 3.07	360	95	FR in progress
10.	Ganga(Farakka)-Damodar-Subernarekha link	West Bengal, Orissa & Jharkhand	West Bengal, Orissa & Jharkhand	7.63 + 0.30 + 0.55 = 8.47	484	-	Draft FR completed
11.	Subernarekha-Mahanadi link	West Bengal & Orissa	West Bengal & Orissa	0.18 + 0.365 = 0.545	--	9	Draft FR Completed

ANNEX – I (contd..)							
12.	Kosi-Mechi link	Bihar , West Bengal & Nepal	Bihar	2.99 + 1.75 (Nepal) = 4.74	24	3180	PFR completed. FR to be taken up Entirely lies in Nepal
13.	Farakka-Sunderbans link	West Bengal	West Bengal	1.50	184	--	Draft FR completed
14.	Jogighopa-Tista-Farakka link (Alternative to M-S-T-G)	-do-	Assam, West Bengal & Bihar	----	216	1115	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

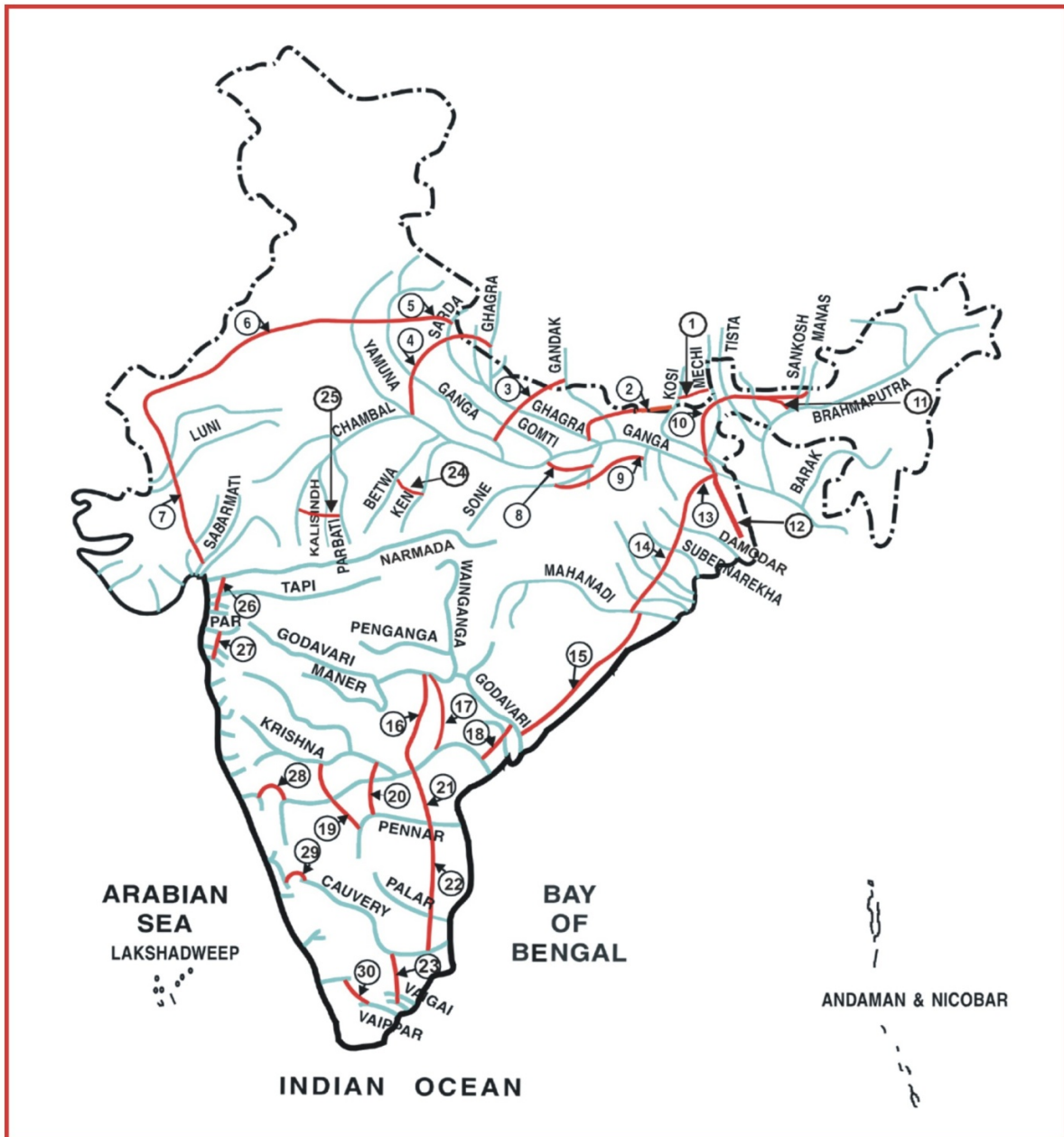
ANNEX -II**Intra – State link proposals received from the State Governments**

Sl. No.	Name of intra-state link	Rivers	Present status of PFR/DPR
	Maharashtra		
1.	Wainganga (Goshikurd) – Nalganga (Purna Tapi)	Wainganga & Nalganga	PFR completed and DPR is in progress.
2.	Wainganga – Manjra Valley	Wainganga & Manjra	PFR completed (Not found feasible)
3.	Upper Krishna – Bhima (system of Six links)	Krishna & Bhima	PFR completed
4.	Damanganga (Ekdare)- Godavari Valley	Damanganga & Godavari	PFR completed. DPR taken up.
5.(i)	Upper Vaitarna-Godavari valley	Vaitarna&Godavari	PFR completed.
5(ii)	Damanganga-Vaitarna-Godavari (Kadva Dev) Valley	Damanganga, Vaitarna & Godavari	PFR completed. DPR taken up.
6.	North Konkan – Godavari Valley	Patalganga & Godavari	PFR completed (Not found feasible)
7.	Koyna – Mumbai city	Koyna	PFR completed
8.	Sriram Sagar Project (Godavari) – Purna – Manjira	Godavari, Purna & Manjira	PFR completed
9.	Wainganga (Goshikurd) – Godavari (SRSP)	Wainganga & Godavari	Withdrawn by Govt. of Maharashtra
10.	Middle Konkan – Bhima Valley	Savitri, Kundalika, Amba & Bhima	PFR completed (Not found feasible)
11.	Koyna – Nira	Koyna & Nira	PFR completed
12.	Mulsi – Bhima	Mulsi & Bhima	PFR completed
13.	Savithri – Bhima	Savithri & Bhima	PFR completed
14.	Kolhapur – Sangli – Sangola	Krishan & Bhima	PFR completed
15.	Riverlinking projects of Tapi basin and Jalgaon District	Tapi	PFR completed
16.	Nar – Par - Girna valley	Nar, Par & Girna	PFR completed (Not found feasible)
17.	Narmada – Tapi	Narmada & Tapi	PFR completed
18.	Khariagutta – Navatha Satpura foot hills	Dropped	Ground water recharge schemes to be studied by CGWB. Consequently not accepted by TAC of NWDA for PFR studies.
19.	Kharia Ghuti Ghat – Tapi	Dropped	
20.	Jigaon – Tapi – Godavari Valley	Tapi & Godavari	PFR completed (Not found feasible)
	Gujarat		
21.	Damanganga – Sabarmati – Chorwad	Damanganga, Sabarmati & Chorwad	PFR completed

S. No.	Name of intra-state link	Rivers	Present status of PFR/DPR
	Orissa		
22.	Mahanadi – Brahmani	Mahanadi & Brahmani	PFR completed (Not found feasible)
23.	Mahanadi – Rushikulya (Barmul Project)	Mahanadi & Rushikulya	PFR completed
24.	Vamsadhara – Rushikulya (Nandini Nalla project)	Vamsadhara & Rushikulya	PFR completed
	Jharkhand		PFR completed
25.	South Koel – Subernarekha	South Koel & Subernarekha	Completed. For preparation of DPR, NIH was assigned hydrological studies based on comments of Odisha. Draft report has been submitted by NIH.
26.	Sankh – South Koel	Sankh & South Koel	Completed. For preparation of DPR, NIH was assigned hydrological studies based on comments of Odisha. Draft report has been submitted by NIH.
27.	Barkar – Damodar – Subernarekha	Barkar, Damodar & Subernarekha	Completed. DPR held up for want of consent of West Bengal. Preparation of water balance study of proposed Balapahari dam site on Barakar river is under process as a part of preparation of DPR.
	Bihar		
28.	Kosi – Mechi [entirely lie in India]	Kosi & Mechi	DPR completed. Techno-economic clearance given by Advisory Committee of MoWR, RD & GR.
29.	Barh – Nawada	Ganga & Kiul	PFR completed (Not found feasible)
30.	Kohra – Chandravat (now Kohra-Lalbegi)	Kohra & Chandravat	PFR completed (Not found feasible)
31.	Burhi Gandak – None – Baya - Ganga	Burhi Gandak, None, Baya & Ganga	DPR completed and is under Techno-economic appraisal in CWC
32.	Burhi Gandak – Bagmati [Belwadhar]	Burhi Gandak & Bagmati	PFR completed (Not found feasible)
33.	Kosi – Ganga	Kosi & Ganga	PFR completed
34.	Development of Bagmati Irrigation & Drainage Project-Phase-II (Barrage near Kataunjha in Muzaffarpur District) and Adhwara Multipurpose Project with Kosi-Adhwara-Bagmati Link	Kosi, Adhwara & Bagmati	PFR completed (Not found feasible)

S. No.	Name of intra-state link	Rivers	Present status of PFR/DPR
35	Transfer of Ganga water to South Bihar through pump Canal Scheme at Buxer	Ganga	Initially, NWDA consented to take up the work but after receiving the details from Govt. of Bihar, it was found that these are not intra-state links therefore not taken up.
36	Development of Badua-Chandan Basin	Badua & Chandan	
37.	Sone-Falgu link	Sone & Falgu	Preliminary Study has been taken up
<u>Rajasthan</u>			
38.	Mahi – Luni link	Mahi & Luni	PFR completed (Not found feasible)
39.	Wakal – Sabarmati – Sei – West Banas – Kameri link	Wakal, Sabarmati, Sei, West Banas & Kameri	PFR completed (Not found feasible)
<u>Tamil Nadu</u>			
40.	Ponnaiyar – Palar link	Ponnaiyar & Palar	PFR completed and DPR under finalisation
<u>Karnataka</u>			
41	Almatti (Bagalkot)-Malaprabha Sub-basin	Almatti & Malaprabha	Prima Facie Not found feasible
42	Malaprabha-Tungabhadra Sub-basin	Malaprabha & Tungabhadra	Prima Facie Not found feasible
43	Bedti - Dharma - Varada link	Bedti, Dharma & Varada	PFR completed
44	Bhadra-Vedavathi(Vani Vilasa Sagar) link	Bhadra & Vedavathi	Government of Karnataka withdrew the proposal during 11 th meeting of Special Committee for ILR.
45	Diversion of west flowing rivers schemes(Barapole-upper cauvery link)	Barapole & upper cauvery	
46	Diversion from Bedti & Aghanashini to Varada	Aghanashini & Varada	Found feasible and will be taken up for preparation of PFR.
<u>Chattisgarh</u>			
47	Paury-Mahanadi link	Paury & Mahanadi	PFR completed

PROPOSED INTER BASIN WATER TRANSFER LINKS



HIMALAYAN COMPONENT

1. Kosi – Mechi
2. Kosi – Ghagra
3. Gandak – Ganga
4. Ghagra – Yamuna *
5. Sarada – Yamuna *
6. Yamuna – Rajasthan
7. Rajasthan – Sabarmati
8. Chunar- Sone Barrage
9. Sone Dam – Southern Tributaries of Ganga
10. Manas –Sankosh - Tista - Ganga
11. Jogighopa – Tista – Farakka (Alternate)
12. Farakka – Sunderbans
13. Ganga (Farakka) – Damodar – Subernarekha
14. Subernarekha – Mahanadi

* FR Completed

PENINSULAR COMPONENT

15. Mahanadi (Manibhadra) – Godavari (Dowlaiswaram) *
16. Godavari (Inchampalli) – Krishna (Nagarjunasagar) *
17. Godavari (Inchampalli) – Krishna (Pulichintala) *
18. Godavari (Polavaram) – Krishna (Vijayawada) *
19. Krishna (Almatti) – Pennar *
20. Krishna (Srisailem) – Pennar *
21. Krishna (Nagarjunasagar) – Pennar (Somasila) *
22. Pennar (Somasila)–Palar- Cauvery (Grand Anicut) *
23. Cauvery (Kattalai) – Vaigai – Gundar *
24. Ken – Betwa *
25. Parbati – Kalisindh – Chambal *
26. Par – Tapi – Narmada *
27. Damanganga – Pinjal *
28. Bedti – Varda
29. Netravati – Hemavati
30. Pamba – Achankovil – Vaippar *