

**Ministry of Water Resources, River Development and Ganga Rejuvenation**  
**Status of Memorandum of Understanding (MoU) signed with foreign countries in water sector (as on Jan'16)**

Sl. No	Name of the country	Date of signing/ren ewal	Broad objectives	Present status of implementation	Benefits derived so far	Remarks
1.	Australia	10.11.2009. Renewed on 05.09.2014 for a period of five years.	Cooperation in water resources development and management, both surface and groundwater, and particularly river basin management and impact of climate change on water resources.	A Joint Working Group (JWG) was formed in October 2010. 1 <sup>st</sup> Meeting of JWG was held during 15-19 Nov, 2010 in New Delhi wherein an Action Plan was signed. 2 <sup>nd</sup> Meeting of JWG was held at Canberra, Australia during 29 April - 3 May, 2013. Third meeting of JWG was held on 19-01-2015 at New Delhi.	The experiences and expertise on water resources management and river basin management between the two countries are being shared. Preparation of Integrated Water Resources Management Plan for Brahmani Baitarani River Basin is under progress. In the third meeting it has been decided to complete the exercise by June 2016.	During the third meeting, Australia offered their coop in Ganga Rejuvenation project also. After seeking comments of CWC, CGWB, NIH, IMD, the proposal has been sent to NMCG for their comments.
2.	Rwanda	22.01.2013 for a period of five years.	Cooperation in agriculture, water resources management & capacity building including marshland and hillside irrigation; watershed management & water governance; irrigation projects proposal techniques; procedures of planning irrigation projects; guidelines for water management for irrigation; crop water requirements; pressurized and surface irrigation techniques; water availability and reliability for irrigation projects; water use efficiency technologies; on-farm water management, etc.	Joint Working Group to implement the MoU has been formed on 21-3-2013. First Meeting of Joint Commission is likely to be held soon.	Benefits will come only after 1 <sup>st</sup> Meeting of the Joint Commission.	Ministry was trying for early holding of first meeting of JC. When no progress made, <b>it has been decided to drop the MoU.</b> Comments of MEA has been sought.
3.	Cambodia	08.12.2007 Extended for another	Exchange of experts and organization of training programs; study tours in the areas of	Joint Working Group has been constituted in November, 2012 to	No	No headway till date. <b>Ministry has decided to</b>

		five years i.e. valid till 7.12.2017.	development and management of water resources, both surface and groundwater.	monitor the activities to be carried out in fulfillment of the MoU.		<b>drop the</b> <b>MoU.</b> Comments of MEA has been sought.
4.	Iran	4.5.2013 for a period of five years.	Cooperation on water resources management and development by collaboration and sharing of expertise on traditional system of water conservation, groundwater recharge, drought and impact of climate change on water resources, etc.	Formation of a Joint Working Group is under process.	Follow-up action on the MoU will be taken up by the JWG. No response from Iran on formation of JWG.	No headway till date. <b>Ministry</b> <b>has decided to</b> <b>drop the</b> <b>MoU.</b> Comments of MEA has been sought.
5.	Iraq	23.8.2013 for a period of five years.	Mutual cooperation in water resources development and management including project hydrology, practicing hydrology and hydrological modeling, applications of remote sensing & GIS in hydrology and water resources, integrated water resources development and management, flood & drought management, irrigation & drainage, surface and groundwater management and development, minor irrigation, hydrometeorology, watershed, lakes and wetlands development, dam safety & surveillance, reservoir regulations, training & capacity building, etc.	To implement the activities envisaged in the MoU, a Joint Working Group has been constituted in 24 <sup>th</sup> September 2014.	Benefits will come after the 1 <sup>st</sup> meeting of JWG.	Iraq has now proposed their Minister as head of the JWG. We have requested MEA to take up the matter with Iraq for continuation of existing set-up of JWG.
6.	Fiji	12.2.2014 for a period of five years.	Cooperation in water resources development and management.	Joint Working Group has been formed in March, 2015.	Follow-up action on MoU will be taken by Joint Working Group.	First meeting of JWG is yet to take place. Commissioner (SP) is head of Indian side of JWG.
7.	China	05.06.2008. Renewed on	Cooperation on Provision of Hydrological Information of the <b>Brahmaputra</b> / Yaluzangbu River in	Hydrological data is being provided by Chinese side regularly.	The MoU enabled India to improve advisory forecasts in the downstream reaches of the	B&B Wing, which is dealing the MoU has

		20.05.2013 for a period of five years.	Flood Season by China to India.		Brahmaputra River for taking suitable administrative/evacuation safety measures and for monitoring of blockages in river Brahmaputra due to any landslides.	stated for its continuance as it is very necessary for sharing of hydrological information.
8.	China	11.04. 2005 Renewed on 16.12.2010 for a period of five years.	Cooperation on provision of Hydrological Information of the LangquenZangbo / <b>Sutlej</b> River in Flood Season by China to India Rivers.	Hydrological data is being provided by Chinese side regularly.	The MoU enabled India to improve flood forecasting and timely warning for mitigation measures in the downstream reaches of the Sutlej River.	B&B Wing, which is dealing the MoU has stated for its continuance as it is very necessary for sharing of hydrological information.
9.	China	20.05.2013 for a period of five years.	Cooperation in the field of Water Efficient Irrigation	Visit of delegation from both the sides which was scheduled in May and September 2014 (during the beginning of crop season) could not take place.	Exchange of water related acts, policies and manuals have been carried out.	PP Wing (which signed the MoU) has informed that Planning Commission has proposed to drop the MoU.
10.	China	23.10.2013 for a period of five years.	Cooperation on trans-border rivers, Expert-Level Mechanism on provision of flood-season hydrological data and emergency management and exchange of views on other issues of mutual interest.	Hydrological data is being provided for longer period now.	(i) The two sides recognized that trans-border rivers and related natural resources and the environment are assets of immense value to the socio- economic development of all countries. (ii) The two sides agreed to further strengthen cooperation on trans-border rivers. (iii) For flood forecasting, now we are getting data on water in respect of Yaluzangbu/ Brahmaputra river from China for extended period (15 <sup>th</sup> May to 15 <sup>th</sup> October now, in place of previous 1 <sup>st</sup> June to 15 <sup>th</sup> October every	B&B Wing, which is dealing the MoU has stated for its continuance as it is very necessary for sharing of hydrological information.

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11.	Bahrain	22.02.2015 for a period of five years.	Cooperation in the field of water resources development and management, both surface and ground water through the sharing of technical expertise and experiences	A Joint Working Group (JWG) has been formed in October, 2015 to monitor the implementation.	Follow-up action on MoU will be taken by Joint Working Group.	First meeting of the JWG is awaited.SJC(PP) is representing in JWG from Indian side.

**Status of MoU in pipeline**

<b>S. No.</b>	<b>Country</b>	<b>Broad objectives</b>	<b>Current status</b>
1.	Hungary	Cooperation in the areas of River Basin Management Planning, Integrated Water Resources Management; Water and Waste Water Management; Water related education, research & development; Management of Ground Water.	Draft MoU has been sent to Ministry of External Affairs for seeking concurrence of Hungary. Reply is awaited.
2.	Slovak Republic	Cooperation at the national, regional and international levels in the field of Water Resources Development and Management by collaborating and sharing experience and expertise in the areas mutually agreed upon, including waste water management, integrated water resources development and management, water use efficiency, groundwater, hydrology, aquifer management and cleaning of rivers.	Draft MoU has been sent to Ministry of External Affairs for seeking concurrence of Slovak Republic. Reply is awaited.
3.	Morocco	Cooperation in the areas of conception, realization and maintenance of the hydraulic infrastructure, notably big dams and water transfer projects; Integrated water resources management (conjunctive use of surface and ground water resources, enhancement of water use efficiency, water use in irrigation, artificial recharge of aquifers, organizational, institutional and regulation aspects); Flood and drought management; Sustainable development and management of ground water resources including recharge augmentation.	Revised draft MoU has been sent to Ministry of External Affairs for seeking concurrence of Morocco Govt. Reply is awaited.
4.	Tanzania	Bilateral cooperation in the field of Water Resources Management and Development by collaboration and sharing of expertise on the areas mutually agreed upon including techniques in water harvesting, water conservation, surface and groundwater management and development, aquifer recharge.	Revised draft MoU has been sent to Ministry of External Affairs for seeking concurrence of Tanzanian Govt. Reply is awaited