

RECORD OF DISCUSSIONS OF THE FORTY FOURTH (44TH) MEETING OF
THE JOINT COMMITTEE ON SHARING OF THE GANGA/GANGES WATERS AT
FARAKKA BETWEEN INDIA AND BANGLADESH HELD AT KOLKATA
ON FEBRUARY 11, 2010
(INCORPORATING VISIT TO JOINT OBSERVATION SITES AT FARAKKA ON
FEBRUARY 10, 2010)

1. The 44th meeting of the Joint Committee on sharing of the Ganga/Ganges Waters at Farakka was held at Kolkata on February 11, 2010 after visit to the joint observation sites at Farakka on February 10, 2010. The Indian delegation was led by Shri S. P. Kakran, Commissioner (Ganga), Ministry of Water Resources, Government of the Republic of India and Member, Indo-Bangladesh Joint Rivers Commission and Chairman, Joint Committee. The Bangladesh delegation was led by Mr. Mir Sajjad Hossain, Member, Indo-Bangladesh Joint Rivers Commission, Ministry of Water Resources, Government of the People's Republic of Bangladesh and Co-Chairman, Joint Committee. The list of participants is given at **Annex-I**. The list of Observation Teams presently stationed for joint observation at Farakka and Hardinge Bridge is given at **Annex-II**.
2. At the outset, the Team Leader of the Indian side welcomed the Bangladesh Team Leader and his delegation. The Bangladesh Team Leader thanked the Indian Team Leader for making excellent arrangements for their stay at Kolkata and Farakka.
3. The joint monitoring of flows of the river Ganga/Ganges at Farakka started on 1st January, 2010 at river cross-section 1030 m downstream of Farakka Barrage and in the Feeder Canal at canal cross-section 535m downstream of the Head regulator.
4. The Indian side placed before the Committee cross sections, HVD, VVD, Mass curves for different sections at 1030m, 1230m, 1430m, 1730m, 1900m, 2000m and 2653m downstream of the Barrage for the Ganga/Ganges and for 535m, 635m and 1850m downstream of the Head regulator in the Feeder Canal.
5. The Joint Committee inspected the discharge observation sites downstream of the Farakka Barrage of the Ganga/Ganges and downstream of the Head Regulator for the Feeder Canal on February 10, 2010. The Committee observed a number of probable discharge observation sites at 1030m, 1230m, 1430m, 1730m, 1900m, 2000m and 2653m downstream of the Barrage in the Ganga/Ganges and at 535m, 635m and 1850m downstream of the Head Regulator of the Feeder Canal.
6. The Joint Committee observed the flow measurements at RD 320m, 360m, 400m and 440m at the cross section at 1030m downstream of the Barrage during the field visit. After examination of details and relevant information and on the basis of site inspection, the Committee decided that the joint observations would be continued at the present site i.e. 1030m downstream of the Farakka Barrage for the Ganga/Ganges. During the visit to the Feeder Canal site the Committee closely observed flow measurements at RD 49m, 42m and 35m at the cross section 535m downstream of the Head Regulator. After examination of details and relevant information and on the basis of site

inspection, it was decided by the Joint Committee that discharge observation in the Feeder Canal would be continued at 535m downstream of the Head regulator of the Feeder Canal.

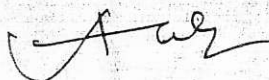
7. The Joint Committee noted with satisfaction that the joint measurements of flows at Farakka are being done as per approved procedure and guidelines. It also noted with satisfaction that the river flows at Farakka are being shared in accordance with the formula mentioned at Annexure-I of the Ganga/Ganges Waters Treaty -1996.
8. The Committee also inspected the Navigation Lock and Control Room of the Farakka Barrage Project.
9. On the day of Joint visit at Farakka the discharge in the river Ganga/Ganges at the downstream of Farakka Barrage was recorded as 35529 cusecs and in the feeder canal was recorded as 39376 cusecs by the respective Joint Observation Teams.
10. During discussions in the meeting, the Bangladesh side referred to the flow availability at Farakka during the current dry season from 1st January, 2010 to 10th February, 2010 and observed that the total flow availability at Farakka during the above periods were less than the 40 years (1949-1988) average availabilities as shown in Column-2 of Annexure-II of the Ganges Water Treaty, 1996. As a consequence, Bangladesh has received less quantity of waters of the Ganges at Farakka than its share as given in the indicative schedule (based on 40 years average flow) in the above 4 (Four) ten-day periods. This has caused adverse impacts in the Ganges dependent areas in Bangladesh. The Bangladesh side enclosed a comparative statement along with graphical representation of flows received by Bangladesh in 4 (Four) ten-day periods (01 January to 10 February, 2010) at Farakka vis a vis its share as per 40 years average flows at **Annex-III** for reference. The Bangladesh side requested the Indian side to take appropriate measures to protect the flows of the Ganga/Ganges at Farakka as per 40 years (1949-1988) average flows in each 10-day period so that Bangladesh receives its due share of waters of the Ganga/Ganges at Farakka as per the figures given in the Indicative Schedule (Annexure-II) of the Treaty in each 10-day period in future.
11. In response to Bangladesh concern, the Indian side clarified that the river inflows in a particular year should not be compared with the long term average (flows) of 40 years as the actual flows during a year depends upon hydro- meteorological conditions in that particular year. Provisions of the Treaty-1996 are being honoured by India in letter and spirit; and the releases made so far to the Bangladesh at Farakka in the last 13 years are in accordance with the formula given in the Annexure-I of the Treaty. It was also clarified that **the Schedule given at Annexure - II of the Treaty is only indicative as it reads "If actual availability corresponds to average flows of the period 1949 to 1988, the implication of the formula in Annexure-I for the share of each side is:"**. Thus, it is evident that it would match only in a year when the actual availability of water at Farakka corresponds to the long term average flows of 40 years. Further, a close look of jointly observed flows of last 13 years shows that Bangladesh side has got, in fact, more water than its share as per the Treaty. Based upon 40 years' average flows shown in the Indicative Schedule as per Annexure - II, the **Bangladesh share works**

BCM during a year, whereas the Bangladesh has **actually received 16.34 BCM** of water in the last 13 years' period, on an average basis. A comparative statement showing the 13 years' average flows release to Bangladesh at Farakka (during 1997-2009) vis-à-vis 40 years' average flows (1949-88) is enclosed at **Annex-IV** for ready reference.

12. The meeting was held in a cordial and friendly atmosphere. The Joint Committee agreed to hold its next meeting in Dhaka along with the site visit to Bheramara from 16 to 19 February, 2010.

Signed on February 11, 2010 at Kolkata

Sd /-
(MIR SAJJAD HOSSAIN)
Co-Chairman



Sd /-
(S. P. KAKRAN)
Chairman



Sl. No.	Indian Delegation		Bangladesh Delegation	
1.	Mr. S. P. Kakran Commissioner (Ganga) and Member, Indo-Bangladesh Joint Rivers Commission	Leader of the Delegation	Mr. Mir Sajjad Hossain Member, Indo-Bangladesh Joint Rivers Commission	Leader of the Delegation
2.	Mr. S. Masood Husain Member (Planning) Ganga Flood Control Commission	Special Invitee	Mr. A. H. M. Kausher Chief Engineer, Hydrology Bangladesh Water Development Board	Member
3.	Mr. T. S. Mehra Senior Joint Commissioner (Ganga) Ministry of Water Resources	Member	Mr. Md. Ahasan Ullah Director Joint Rivers Commission	Member
4.	Mr. M. Subbarayudu Counsellor (Political) High Commission of India Dhaka	Special Invitee	Mr. Md. Abul Hasan Mridha First Secretary Bangladesh Deputy High Commission, Kolkata, India	Member
5.	Mr. M. K. Saha Executive Engineer Lower Ganga Division Central Water Commission Berhampore	Special Invitee	Mr. Md. Mofazzal Hossain Executive Engineer Joint Rivers Commission	Member

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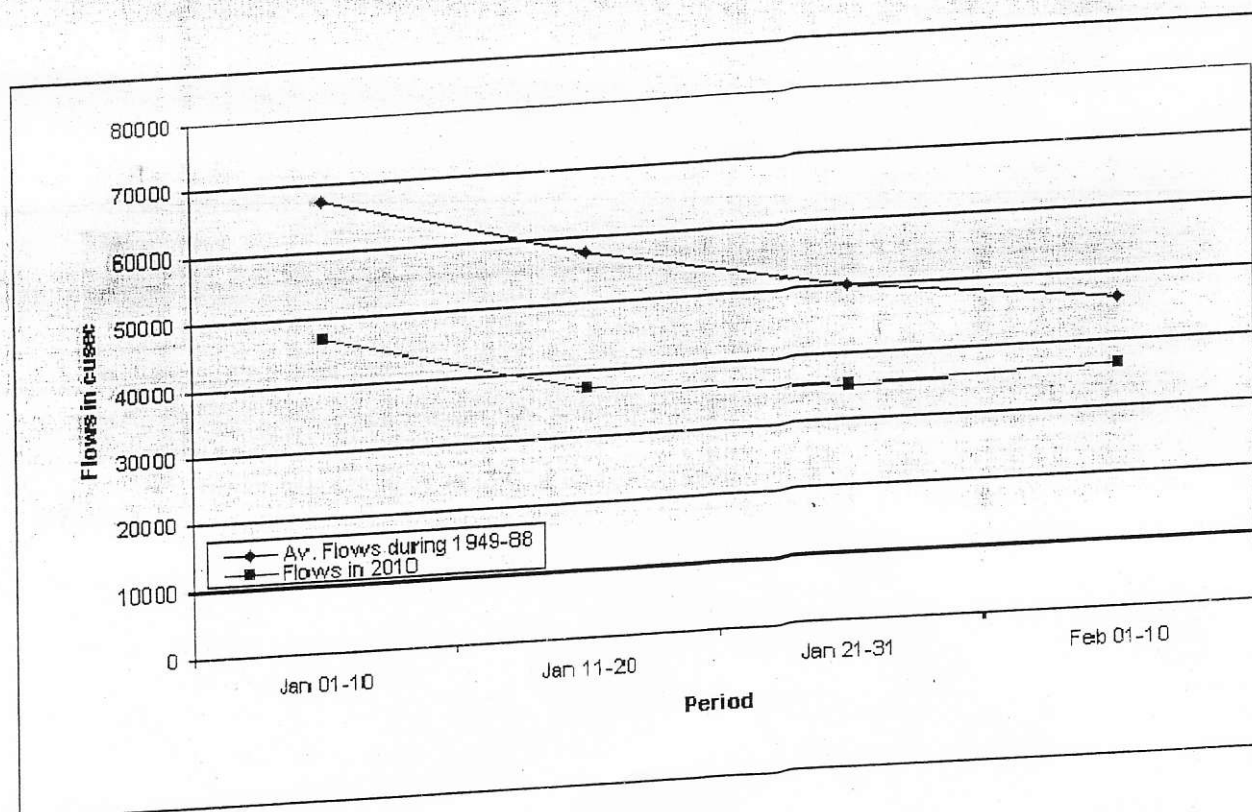
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Sl. No.	Indian Observers		Sl. No.	Bangladesh Observers	
<u>Farakka</u>			<u>Farakka</u>		
1.	Mr. M. K. Saha Executive Engineer	Team Leader	1.	Mr. Md. Abdul Hye Executive Engineer	Team Leader
2.	Mr. A K Hazra Assistant Engineer	Member	2.	Mr. Mohammad Mahtab Hossain Sub-Divisional Engineer (In-charge)	Member
3.	Mr. S C Roy Junior Engineer	Member	3.	Mr. Md. Riadur Rahman Assistant Engineer	Member
4.	Mr. K K Dev Junior Engineer	Member	4.	Mr. Mohammad Arifuzzaman Bhuyan Assistant Engineer	Member
5.	Mr. P K Dhali Research Assistant	Member			
6.	Mr. A K Yadav Assistant Silt Analyst	Member			
<u>Hardinge Bridge</u>			<u>Hardinge Bridge</u>		
1.	Mr. Shyam Narayan Singh Deputy Director	Team Leader	1.	Mr. Md. Kabibur Rahman Executive Engineer	Team Leader
2.	Mr. Sunil Kumar Sinha Assistant Commissioner	Member	2.	Mr. Md. Mofazzal Hossain Section Officer	Member
			3.	Mr. Md. Rezaul Karim Surveyor	Member




Comparative statement of flows received by Bangladesh at Farakka during 2010 vis-à-vis share of Bangladesh based on average flows of 1949-88

Period	Share of Bangladesh at Farakka based on average flows 1949-88 (cusec)	Flows received by Bangladesh at Farakka in 2010 (cusec)
		46720
Jan 01-10	67516	37204
Jan 11-20	57673	35048
Jan 21-31	50154	36266
Feb 01-10	46323	



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Comparative Statement showing the average jointly observed flows at Farakka during 1949-88 vis-à-vis 1997-2009

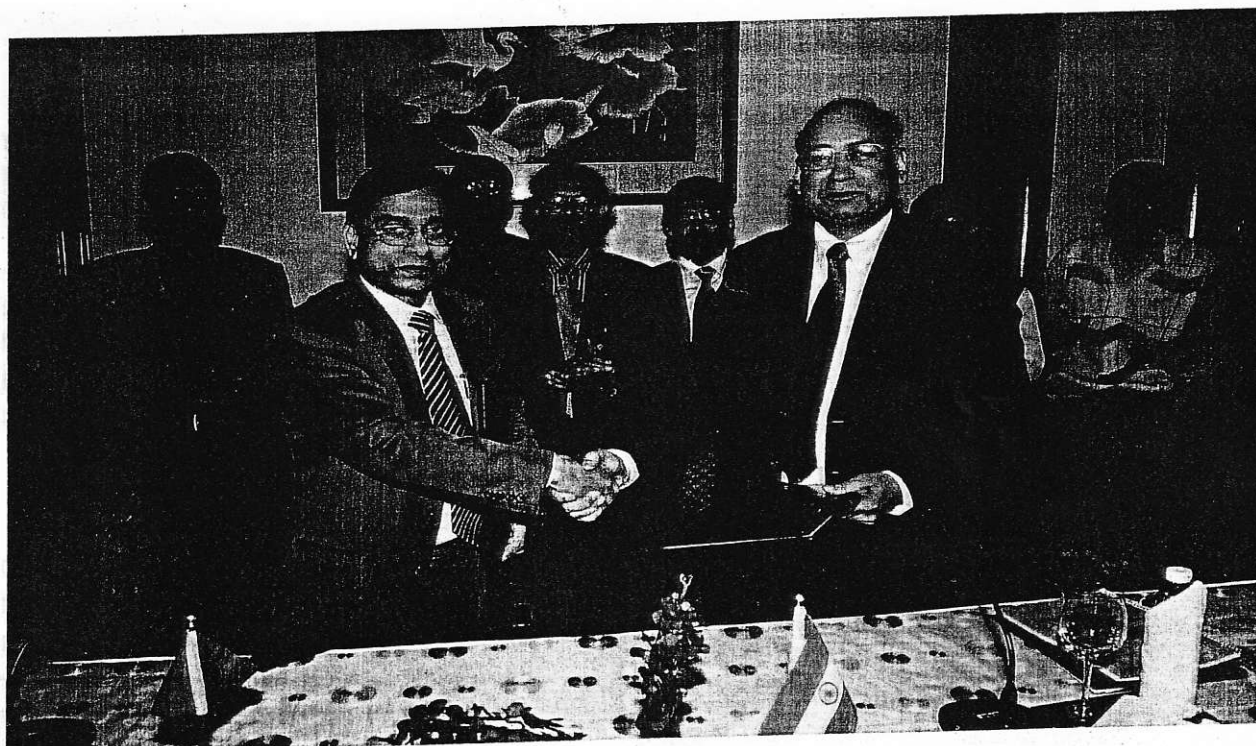
ANNEX-IV

Period	40 Years (1949-88) Average Flows at Farakka (in cusecs)			13 Years (1997-2009) Average of Jointly Observed Flows at Farakka (in cusecs)		
	Total	Share of India	Share of Bangladesh	Total	Release to India	Release to Bangladesh
Jan-I	107516	40000	67516	111826	40011	71815
Jan-II	97673	40000	57673	99424	39862	59562
Jan-III	90154	40000	50154	93812	39259	54553
Feb-I	86323	40000	46323	89338	38908	50430
Feb-II	82859	40000	42859	83242	38434	44808
Feb-III	79106	40000	39106	79209	37294	41915
Mar-I	74419	39419	35000	72613	35256	37357
Mar-II	68931	33931	35000	66310	30786	35524
Mar-III	64688	35000	29688	62632	35172	27460
Apr-I	63180	28180	35000	65002	29258	35744
Apr-II	62633	35000	27633	65454	35551	29903
Apr-III	60992	25992	35000	69789	31667	38122
May-I	67351	35000	32351	73533	36752	36781
May-II	73590	38590	35000	80427	37048	43380
May-III	81854	40000	41854	92923	37722	55201
Total Availability of Water (in BCM)						
	28.60	13.57	15.03	29.72	13.38	16.34

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SIGNING OF RECORD OF DISCUSSIONS OF THE FORTY- FOURTH (44th) MEETING OF THE JOINT COMMITTEE BY MEMBERS JRC AT KOLKATA



EXCHANGING THE RECORDS OF DISCUSSIONS OF THE FORTY- FOURTH (44th) MEETING OF THE JOINT COMMITTEE BY MEMBERS JRC AT KOLKATA