RECORD OF DISCUSSIONS OF THE FORTY THIRD (43rd) MEETING OF THE JOINT COMMITTEE ON SHARING OF THE GANGA/GANGES WATERS AT FARAKKA BETWEEN INDIA AND BANGLADESH HELD IN DHAKA ON 4TH DECEMBER 2009

- 1. The Forty Third meeting of the Joint Committee on sharing of the Ganga/ Ganges waters at Farakka was held in Dhaka on 4th December, 2009.
- 2. The Bangladesh delegation was led by Mr. Mir Sajjad Hossain, Member, Indo-Bangladesh Joint Rivers Commission and Chairman, Joint Committee, Bangladesh side. The Indian delegation was led by Shri S.P. Kakran, Commissioner (Ganga), Ministry of Water Resources, Government of India, Member, Indo-Bangladesh Joint Rivers Commission and Chairman, Joint Committee, Indian side. The list of participants is given at Annex-I.
- 3. At the outset of the meeting, the Team Leader of Bangladesh side welcomed the Indian Team Leader and his delegation to Dhaka for the 43rd meeting of the Joint Committee. The Indian Team Leader expressed his sincere thanks to the Bangladesh Team Leader for making excellent arrangements for their stay in Dhaka.
- 4. The Joint Committee appraised the working arrangements of sharing the dry season flows of the Ganga/Ganges at Farakka from 1st January to 31st May, 2009 and monitoring thereof by the Indo-Bangladesh Joint Observation Teams stationed at Farakka in India and at Hardinge Bridge in Bangladesh.
- 5. The Committee examined the field data collected during the period from 1st January to 31st May, 2009 and noted that these were collected in accordance with the procedures and guidelines laid down by the Committee at its First Meeting held in Dhaka in December, 1996.
- 6. During discussions in the meeting, the Bangladesh side referred to the flow availability at Farakka during the current dry season from 1st January to 31st May, 2009. In this regard the Bangladesh side pointed out that the issue was also discussed in the 41st meeting of the Joint Committee held in Dhaka on 16th April, 2009 while Bangladesh received less quanta of water at Farakka than its share as given in the indicative schedule in eight 10-day periods out of ten from 1st 10-day period of



XW

January to 1st 10-day period of April, 2009 (the other two 10-day periods were guaranteed periods). Bangladesh, however, observed with concern that the flow availability at Farakka were also less than the 40 years average availability in subsequent 10-day periods and Bangladesh consequently received less quanta of water than its share as per indicative schedule from 2nd 10-day period of April to 3rd 10-day period of May, 2009 except one guaranteed ten 10-day period. Bangladesh side also pointed out that out of total 195 (one hundred ninety five) 10-day periods from 01 January, 1997 to 31 May, 2009, Bangladesh has received less quanta of waters of the Ganges at Farakka than its share as per indicative schedule in 83 (eighty three) occasions. This has adversely affected the Ganges dependent areas in Bangladesh. The Bangladesh side in this regard referred to Article-II (ii) which states that "The indicative schedule at Annexure-II, as referred to in sub para (i) above, is based on 40 years (1949-1988) 10-day period average availability of water at Farakka. Every effort would be made by the upper riparian to protect flows of water at Farakka as in the 40 years average availability as mentioned above". It is evident from the above Article that every effort would be made by the upper riparian (India) to protect the flows at Farakka in each 10-day period as per 40 years (1949-88) average flows, so that, Bangladesh receives its share at Farakka as per the figures given at Annexure-II of the Treaty in each 10-day period. The Bangladesh side enclosed a comparative statement along with graphical representation of flows received by Bangladesh from 01 January to 31 May, 2009 at Farakka vis a vis its share as per 40 years average availability given at Annex-II for reference. In this context, the Bangladesh side requested the Indian side to maintain the total availability at Farakka as per figures given in the indicative schedule so that Bangladesh may receive its share as per the indicative schedule in future.

- 7. While appreciating the Bangladesh's concern regarding availability of less water at Farakka (barrage) site; the Indian side clarified that
 - (i) The lean season inflows in the year 2009 (January May) is attributed to the adverse hydro-meteorological conditions in the upper catchment area that prevailed upon in this year (a dry year) and as a result, the Indian side has also received less water than Indicative Share shown in the Annexure-II of the Treaty. Further, the respective share of

Jul

each party shown in the Indicative Schedule under Ganga/Ganges Treaty can only be adhered to "if actual availability of water (inflows at Farakka) corresponds to the average flows of the period observed during 1949 to 1988" (Reference – Introductory Para of the Schedule).

- (ii) As the actual sharing of Ganga/Ganges waters between India and Bangladesh depends upon the inflows available at Farakka; it is divided with reference to the formula mentioned at Annexure-I of the Treaty and accordingly, the Joint teams were measuring the Ganga/ Ganges waters in the lean season and dividing it as per the formula given in Annexure-I at all times to the utmost satisfaction of both sides and in a highly transparent manner. Both sides have got less water in the year 2009.
- (iii) It was further clarified that the Indicative Schedule does not provide any guarantee that either party would get the water every year in the ratio mentioned therein but only indicates that the respective share of each party if the actual flows corresponds to the average flows schedule. In fact, it can be possible only 50% of the years (as it is only average line). During the years 1949-88 also, the minimum flows observed were very different than average values and actual flows in a particular year should fall within a band of maximum & minimum observed flows, as shown in **Annex-III**.

3P.

- It was decided that before commencement of joint observations in the next dry season the Committee should, at the onset of the dry season, decide upon the location of the measurement sites at Farakka in India and at Hardinge Bridge in Bangladesh by considering suitability of alternative sites, if required, taking into consideration the Vertical Velocity Distribution (VVD), Horizontal Velocity Distribution (HVD), Mass Curve and other relevant factors.
- 9. The Joint Committee held in-depth discussions with regard to the implementation of the arrangements contained in the Treaty of December, 1996 for sharing the Ganga/Ganges waters at Farakka between Bangladesh and India for the dry season of 2009. After detailed discussions, the Joint Committee finalized its Annual Report of the year 2009 for submission to the respective Governments.
- 10. The Joint Committee wishes to express its special thanks and deep gratitude for the assistance, co-operation and courtesy received from Ministry of Water Resources, Government of the People's Republic of

for

Bangladesh, Ministry of Foreign Affairs, Government of the People's Republic of Bangladesh, Bangladesh High Commission, New Delhi, Bangladesh Deputy High Commission, Kolkata, Kushtia O & M Circle, Surface Water Hydrology and other offices of Bangladesh Water Development Board (BWDB) in Bangladesh and various Government Departments, Institutions and Organizations including Ministry of Water Resources, Government of India, Ministry of External Affairs, Government of India, High Commission of India, Dhaka, Farakka Barrage Project Authority, Central Water Commission (CWC) and Government of West Bengal in India.

- 11. The Joint Committee decided to place on record the commendable work done by the members of the Joint Observation Teams both at Farakka in India and at Hardinge Bridge in Bangladesh without which it would not have been possible for the Joint Committee to carry out its functions efficiently.
- 12. The Joint Committee noted that Mr. Ravi Shanker, Senior Joint Commissioner (ER), Ministry of Water Resources, Government of India and Member of the Joint Committee relinquished the office on 15th July, 2009. The Committee recalled with deep appreciation the valuable services rendered by Mr. Ravi Shanker to the Joint Committee through his sincere and untiring efforts. The Committee wishes good health and good luck to Mr. Ravi Shanker and the members of his family for the coming days.
- 13. The Committee decided to undertake its next visit to the joint observation sites at Farakka in India and hold its 44th meeting in Kolkata during dry season of 2010 on mutually convenient dates.

Dhaka

04 December, 2009

24/

50/---

S. P. KAKRAN Co-Chairman

MIR SAJJAD HOSSAIN Chairman

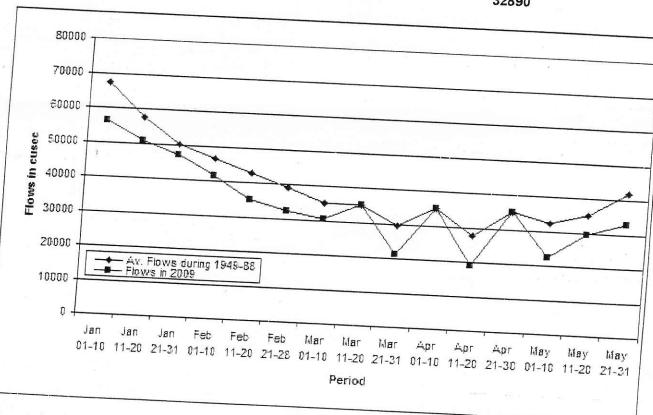
d.

ful

-	No	Indian Dolon-4			Bangladesh Delegation	
	1.	Commissioner	Leader o and Delegat oint	f the	Mr. Mir Sajjad Hossain Member, Indo-Bangladesh Joint Rivers Commission	Leader of the Delegation
	2.	Ms. Ananya Ray Joint Secretary & FA Ministry of Water Resources	Special Invitee		Mr. A. H. M. Kausher Chief Engineer, Hydrology Bangladesh Water Developme Board, Dhaka	Special
3	3.	Mr. T.S. Mehra Senior Joint Commissioner (Ganga) Ministry of Water Resources	Member	N	Mr. Md. Ahasan Ullah Director oint Rivers Commission, Banglades	Member
4.	(Mr. Ravi Shanker Director (M&A) Central Water Commission Guawahati	Special Invitee	M. Di	r. Mehdi Hasan rector (South Asia) nistry of Foreign Affairs	Special invitee
5.	1	Ms. Smita Pant Inder Secretary (Bangladesh) Iinistry of External Affairs	Special Invitee	Min	Md Rakib Hossain puty Secretary istry of Water Resources vernment of Bangladesh	Special invitee
5.	DE	r. Praveen Kumar eputy Commissioner (Ganga) nistry of Water Resources	Member	Mr. Exec	Md Jahid Hossain Jahangir Cutive Engineer E Rivers Commission, Bangladesh	Member

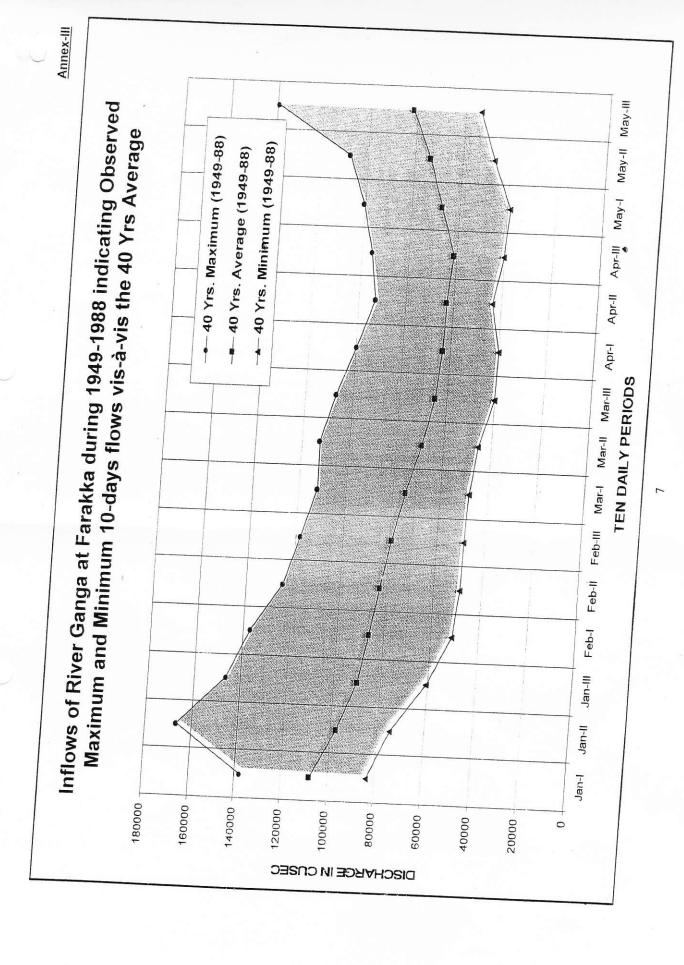
Comparative statement of flows received by Bangladesh at Farakka during 2009 vis-à-vis share of Bangladesh based on average flows of 1949-88

	30 110 113 01 1949-88
Share of Bangladesh at Farakka based on average flows 1949-88 (cusec)	Flows received by Bangladesh at Farakka in 2009 (cusec)
67516 57673 50154 46323 42859 39106 35000 35000 29688 35000 27633 35000 32351 35000 41854	56414 50654 46974 41650 35000 32429 30613 35000 21114 35000 19219 35000 22446 29655 32890
	1949-88 (cusec) 67516 57673 50154 46323 42859 39106 35000 35000 29688 35000 27633 35000 32351 35000





for



d

full-

COMPOSITION OF THE JOINT TEAM AT FARAKKA FOR THE YEAR 2009

INDIAN SIDE

- Mr. Baleswar Thakur Executive Engineer, Lower Ganga Division, CWC, Berhampore. (01.01.2009 to 27.05.2009)
- 2. Mr. M.K. Saha
 Executive Engineer,
 Lower Ganga Division,
 CWC, Berhampore.
 (28.05.2009 to 31.05.2009)
- 3. Shri A. K. Hazra
 Sub Divisional Engineer,
 Lower Ganga Sub-Division,
 CWC, Farakka.
 (01.01.2009 to 17.01.2009 &
 27.01. 2009 to 31.05. 2009)
- 4. Mr. B. Pal
 Sub Divisional Engineer,
 Lower Ganga Sub-Division,
 CWC, Farakka.
 (18.01.2009 to 26.01.2009)
- 5. Mr. K. K. Dev Junior Engineer, Lower Ganga Sub-Division, CWC, Farakka. (01.01.2009 to 31.05.2009)
- 6. Mr. P. K. Dhali
 Research Assistant,
 Lower Ganga Sub-Division,
 CWC; Farakka.
 (01.01.2009 to 31.05.2009)
- 7. Mr. S. C. Roy
 Junior Engineer,
 Lower Ganga Sub-Division,
 CWC, Farakka.
 (01.01.2009 to 31.05.2009)
- 8. Shri A. K. Yadav Assistant Silt Analyst, Lower Ganga Sub-Division, CWC, Farakka. (01.01.2009 to 31.05.2009)
- 9. Shri Bani Ranjan Pal Gauge Assistant, (01.01.2009 to 31.01.2008)
- Mr. D.D. Sarqkar Junior Engineer,
 B.J. Sub- Division,
 CWC, Krishnagar.
 (01.02.2009 to 20.02.2009 & 16.04.2009 to 30.04.2009)
- 11. Shri R. K. Sanyal
 Gauge Assistant, B.J. Sub-Division
 CWC, Krishnagar
 (21.02.2009 to 15.04.2009)

BANGLADESH SIDE

- Mr. Md. Mahmudur Rahman Executive Engineer, Joint Rivers Commission, Bangladesh (01.01.2009 to 15.03.2009)
- Mr. Md. Kabibur Rahman
 Executive Engineer,
 Northern Measurement Division,
 Bangladesh Water Development Board, Pabna (01.01.2009 to 15.03.2009)
- 3. Mr. Gholam Mostafa
 Deputy Director
 Surface Water Hydrology Circle
 Bangladesh Water Development Board
 Dhaka
 (01.01.2009 to 15.03.2009)
- 4. Mr. Iftekhar Ahmed Dinar Assistant Engineer, Joint Rivers Commission, Bangladesh. (01.01.2009 to 15.03.2009)
- Mr. Md. Mofazzal Hossain Executive Engineer Joint Rivers Commission, Bangladesh. (16.03.2009 to 31.05.2009)
- Mr. Md. Nurul Amin
 Executive Engineer
 South Eastern Measurement Division,
 Bangladesh Water Development Board Comilla
 (16.03.2009 to 31.05.2009)
- Mr. Mahmud Ilias
 Sub Divisional Engineer,
 North Eastern Measurement Sub Division,
 Bangladesh Water Development Board
 Mymensingh
 (16.03.2009 to 31.05.2009)
- 8. Mr. Mohammad Saif Uddin
 Assistant Engineer,
 Joint Rivers Commission, Bangladesh.
 (16.03.2009 to 31.05.2009)



J woln

COMPOSITION OF THE JOINT TEAM AT HARDINGE BRIDGE DURING 2009

INDIAN SIDE

- Mr. Neeraj Kumar Manglik,
 Deputy Director, DSM Directorate,
 Central Water Commission, Sewa Bhawan,
 R.K. Puram, New Delhi 110 066
 (01.01.2009 to 20.02.2009)
- Mr. Rakesh Kumar
 Deputy Director
 Hydrology © Directorate
 Central Water Commission,
 New Delhi 110 066
 (20.02.2009 to 11.04.2009)
- Mr. G. Naga Mohan,
 Executive Engineer, Southern Rivers Division,
 Central Water Commission,
 Coimbatore 641 004
 (12.04.2009 to 31.05.2009)
- Mr. A. K. Rao
 Assistant Director
 Monitoring (N) Directorate
 Central Water Commission, Sewa Bhawan,
 R.K. Puram, New Delhi 110 066
 (01.01.2009 to 19.02.2009)
- Mr. V. Chandrasekhara Rao
 Extra Assistant Director
 Flood Management I Directorate
 Central Water Commission, Sewa Bhawan,
 R.K. Puram, New Delhi 110 066
 (20.02.2009 to 11.04.2009)
- Mr. Jitendra Charan Dwary
 Assistant Director, P &D Directorate
 Central Water Commission,
 Sewa Bhawan, R.K. Puram, New Delhi 110 066
 (11.04.2009 to 31.05.2009)

BANGLADESH SIDE

- Mr Md. Daulatazzaman,
 Sub Divisional Engineer,
 Northern Measurement Division,
 BWDB, Pabhá.
 (01.01.2009 to 20.03.2009)
- Mr. Md. Kabibur Rahaman, Executive Engineer, Northern Measurement Division, BWDB, Pabna. (21.03.2009 to 31.05.2009)
- Mr. Md. Tofazzal Hossain
 Assistant Engineer,
 Northern-Measurement Division,
 BWDB, Pabna.
 (01.01.2009 to 31.05.2009)
- Mr. Md. Mofazzal Hossain Section Officer, Bheramara, Northern Measurement Division, BWDB, Pabna. (01.01.2009 to 31.05.2009)
- Mr. Md. Rezaul Karim
 Surveyor Section Officer, Bheramara,
 Northern Measurement Division,
 BWDB, Pabna.
 (01.01.2009 to 31.05.2009)

X

A

COMPOSITION OF THE JOINT TEAM AT FARAKKA FOR THE YEAR 2009

INDIAN SIDE

- Mr. Baleswar Thakur Executive Engineer, Lower Ganga Division, CWC, Berhampore. (01.01.2009 to 27.05.2009)
- 2. Mr. M.K. Saha
 Executive Engineer,
 Lower Ganga Division,
 CWC, Berhampore.
 (28.05.2009 to 31.05.2009)
- 3. Shri A. K. Hazra
 Sub Divisional Engineer,
 Lower Ganga Sub-Division,
 CWC, Farakka.
 (01.01.2009 to 17.01.2009 &
 27.01, 2009 to 31.05, 2009)
- 4. Mr. B. Pal
 Sub Divisional Engineer,
 Lower Ganga Sub-Division,
 CWC, Farakka.
 (18.01.2009 to 26.01.2009)
- 5. Mr. K. K. Dev
 Junior Engineer,
 Lower Ganga Sub-Division,
 CWC, Farakka.
 (01.01.2009 to 31.05.2009)
- 6. Mr. P. K. Dhali Research Assistant, Lower Ganga Sub-Division, CWC, Farakka. (01.01.2009 to 31.05.2009)
- 7. Mr. S. C. Roy
 Junior Engineer,
 Lower Ganga Sub-Division,
 CWC, Farakka.
 (01.01.2009 to 31.05.2009)
- 8. Shri A. K. Yadav Assistant Silt Analyst, Lower Ganga Sub-Division, CWC, Farakka. (01.01.2009 to 31.05.2009)
- 9. Shri Bani Ranjan Pal Gauge Assistant, (01.01.2009 to 31.01.2008)
- Mr. D.D. Sarqkar
 Junior Engineer,
 B.J. Sub- Division,
 CWC, Krishnagar.
 (01.02.2009 to 20.02.2009 &
 16.04.2009 to 30.04.2009)
- 11. Shri R. K. Sanyal
 Gauge Assistant, B.J. Sub-Division
 CWC, Krishnagar
 (21.02.2009 to 15.04.2009)

BANGLADESH SIDE

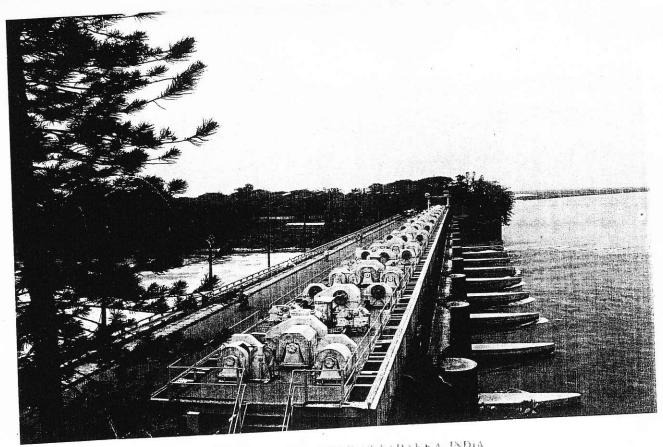
- Mr. Md. Mahmudur Rahman Executive Engineer, Joint Rivers Commission, Bangladesh (01.01.2009 to 15.03.2009)
- Mr. Md. Kabibur Rahman
 Executive Engineer,
 Northern Measurement Division,
 Bangladesh Water Development Board, Pabna (01.01.2009 to 15.03.2009)
- 3. Mr. Gholam Mostafa
 Deputy Director
 Surface Water Hydrology Circle
 Bangladesh Water Development Board
 Dhaka
 (01.01.2009 to 15.03.2009)
- Mr. Iftekhar Ahmed Dinar Assistant Engineer, Joint Rivers Commission, Bangladesh. (01.01.2009 to 15.03.2009)
- 5. Mr. Md. Mofazzal Hossain Executive Engineer Joint Rivers Commission, Bangladesh. (16.03.2009 to 31.05.2009)
- Mr. Md. Nurul Amin
 Executive Engineer
 South Eastern Measurement Division,
 Bangladesh Water Development Board Comilla
 (16.03.2009 to 31.05.2009)
- 7. Mr. Mahmud Ilias
 Sub Divisional Engineer,
 North Eastern Measurement Sub Division,
 Bangladesh Water Development Board
 Mymensingh
 (16.03.2009 to 31.05.2009)
- Mr. Mohammad Saif Uddin Assistant Engineer, Joint Rivers Commission, Bangladesh. (16.03.2009 to 31.05.2009)



J. b. Sa



HARDINGE BRIDGE, BANGLADESH



CANAL HEAD REGULATOR AT FARAKKA, INDIA