

FAP24

Government of
the People's
Republic of
Bangladesh

Water Resources
Planning
Organization

European
Commission

Delft
Hydraulics



Danish
Hydraulic
Institute



Hydroland
Approtech
Osiris

Cell - 940
FAP-24

(73)

BN-789
A-940

**RIVER
SURVEY
PROJECT**

**Special
Report
No.22**

**River Data Book
January 1993 - March 1995**

Part B.7: Mymensingh

October 1996

Special Report 22

**River Data Book
January 1993 - March 1995**

Part B.7: Mymensingh

October 1996



Contents of entire Data Book

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Part B: Routine gauging January 1993 - March 1995

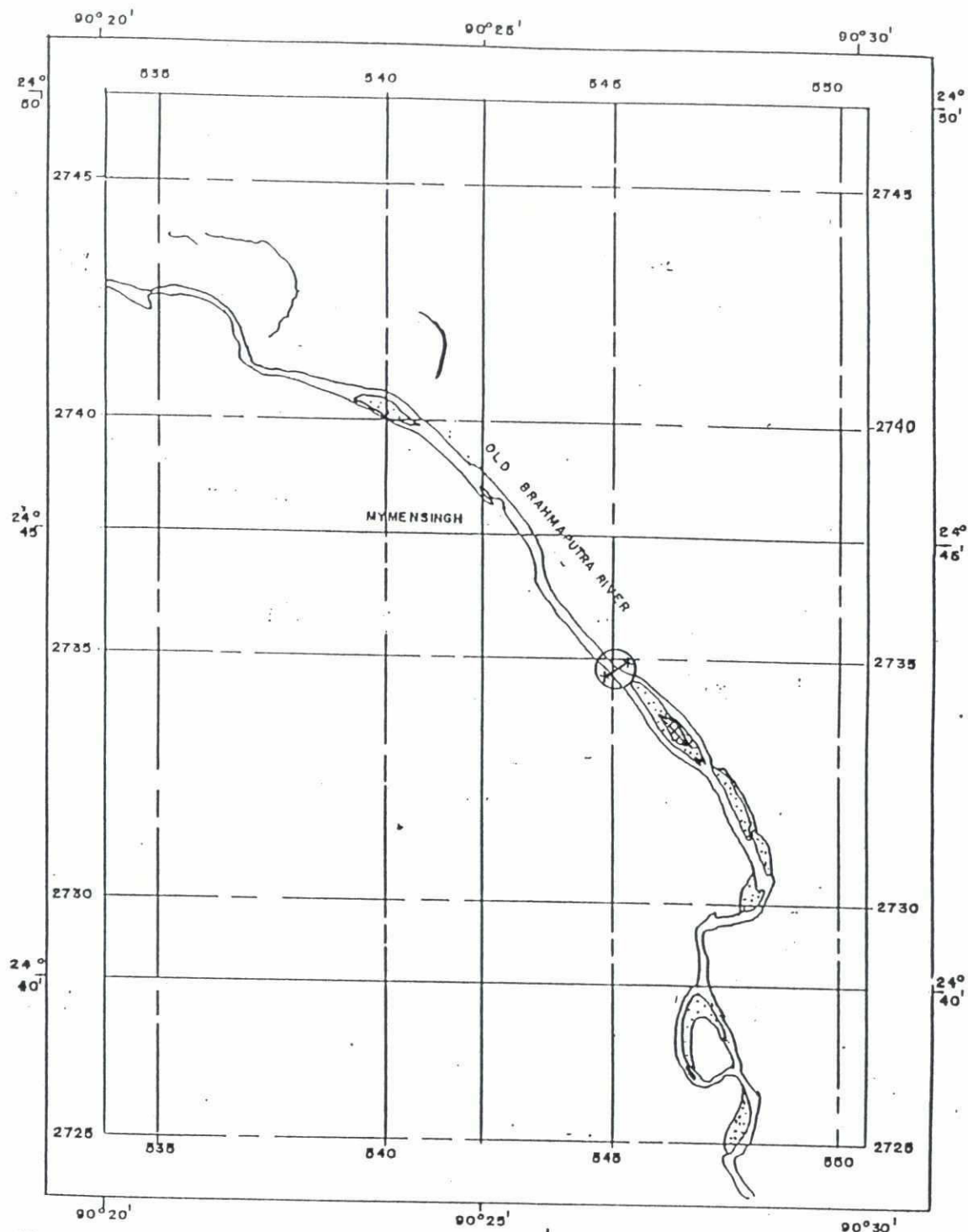
B.1	Bahadurabad
B.2	Sirajganj
B.3	Aricha (Teota)
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B.5	Baruria
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Part C: Special surveys June 1994 - March 1995




C6

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Survey No.	Time
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LEGEND:-

- X—X Measurement cross section
-  High land
-  Unstable/low char
-  BWDB Embankment



5000 m 2500 m 0

Map is based on most recent
Satellite image of April, 1989



RIVER SURVEY PROJECT

Delft Hydraulics/Danish Hydraulic Institute
in association with Osiris/Approtech/HydroLand

Survey Bulletin No. 29 - Jan , 1994

Location No 7 Old Brahmaputra River Mymensingh

File:

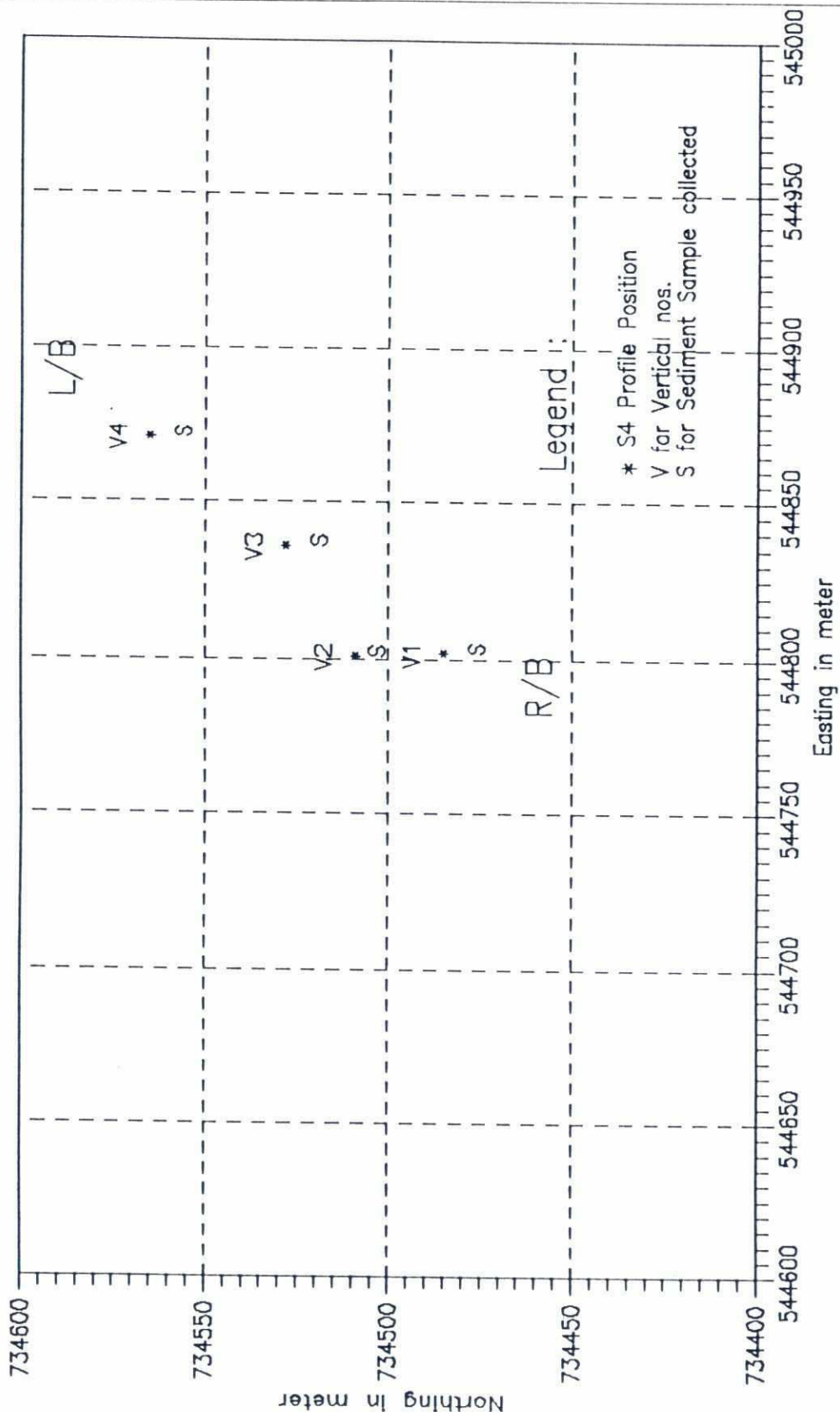
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KEY PLAN

Fig.



FAP 24



DELFT - DHI

RIVER SURVEY PROJECT

Flood Plan Coordination Organization

Commission of the European Communities

Survey Bulletin 29 : January 1994

Location 7 : Old Brahmaputra River, Mymensingh

Date :

Init :

Location of Measurements

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River : Old Brahmaputra
S4 Discharge

Date of Survey : 31 January 1994
Location : Old Brahmaputra River, Mymensingh
Station No. 7

Date	Profile	Level	Width	Area	Discharge	Sediment
		(m+PWD)	(m)	(sq.m)	(cumec)	Transport (Kg/s)
31-01-94	Y41V0P01	6.70	200	263	14	0.122
31-01-94	Y41V0P02	6.70				
31-01-94	Y41V0P03	6.70				
31-01-94	Y41V0P04	6.70				

Table 3.1 SUMMARY OF RESULTS (S4-discharge)



River : Old Brahmaputra
S4 Velocity

Date of Survey : 31 January 1994

Location : Old Brahmaputra River, Mymensingh
Station No. 7

Vertical 1		Vertical 2		Vertical 3		Vertical 4	
Total depth = 3.08 m		Total depth = 2.40 m		Total depth = 2.10 m		Total depth = 1.10 m	
Depth	Velocity	Depth	Velocity	Depth	Velocity	Depth	Velocity
[m]	[m/s]	[m]	[m/s]	[m]	[m/s]	[m]	[m/s]
0.64	0.07	0.48	0.10	0.42	0.10	0.50	0.02
1.92	0.08	1.48	0.08	1.26	0.08		
2.58	0.05	1.92	0.06	1.71	0.03		

$$Q_w = 14 \text{ (m}^3\text{/s)}$$

Table 3.2 SUMMARY OF RESULTS (S4 Current)

River : Old Brahmaputra
Concentration

Date of Survey : 31 January 1994

Location : Old Brahmaputra River, Mymensingh
Station No. 7

Vertical 1		Vertical 2		Vertical 3		Vertical 4	
Total depth = 3.08 m		Total depth = 2.40 m		Total depth = 2.10 m		Total depth = 1.10 m	
Depth	Conc.	Depth	Conc.	Depth	Conc.	Depth	Conc.
[m]	[mg/l]	[m]	[mg/l]	[m]	[mg/l]	[m]	[mg/l]
0.64	6.49	0.48	5.83	0.42	2.49	0.50	2.68
1.92	6.77	1.48	12.25	1.26	10.93		
2.58	12.45	1.92	15.94	1.71	16.20		

$$S_s = 0.122 \text{ (Kg/s)}$$

Table 3.3 SUMMARY OF RESULTS (Suspended Sediment Concentration)

Type	Time		File Name	Ver. No.	Easting (meter)	Northing (meter)	DISCHARGE GAUGING					SEDIMENT TRANSPORT GAUGING					
	From	To					ADCP	HYDRO	EMF	S4	MEX	Suspended Sediment Samples	Andreasen Tube Samples	Helley Smith Samples	Integrated Sediment Samples	Bottom Samples	
Transect	12:15	12:17	Y41V0T01*						T								
Transect	12:20	12:23	Y41V0T02						T								
Profile	15:32:08	15:58:06	Y41V0P01	1	544802	734491			P		P		3	-	-	-	-
Profile	16:16:20	16:40:05	Y41V0P02	2	544801	734509			P		P		3	-	-	-	-
Profile	16:53:16	17:08:39	Y41V0P03	3	544836	734528			P		P		3	-	-	-	-
Profile	17:15:31	17:19:59	Y41V0P04	4	544871	734565			P		P		1	-	-	-	-

* transect in PSD 24 data base

Date of Survey : 31 January 1994
Location : Old Brahmaputra River, Mymensingh
Station No. 7

Table 2.1 SURVEY PROGRAMME AS MADE

20

Type Of Samples	Sample Nos.	Total Sample Nos.	Vertical No.
Point Integrated Samples	A459,A1138,A1159	3	1
	A1136,A127,A1144	3	2
	A345,A1160,A1141	3	3
	A1143	1	4

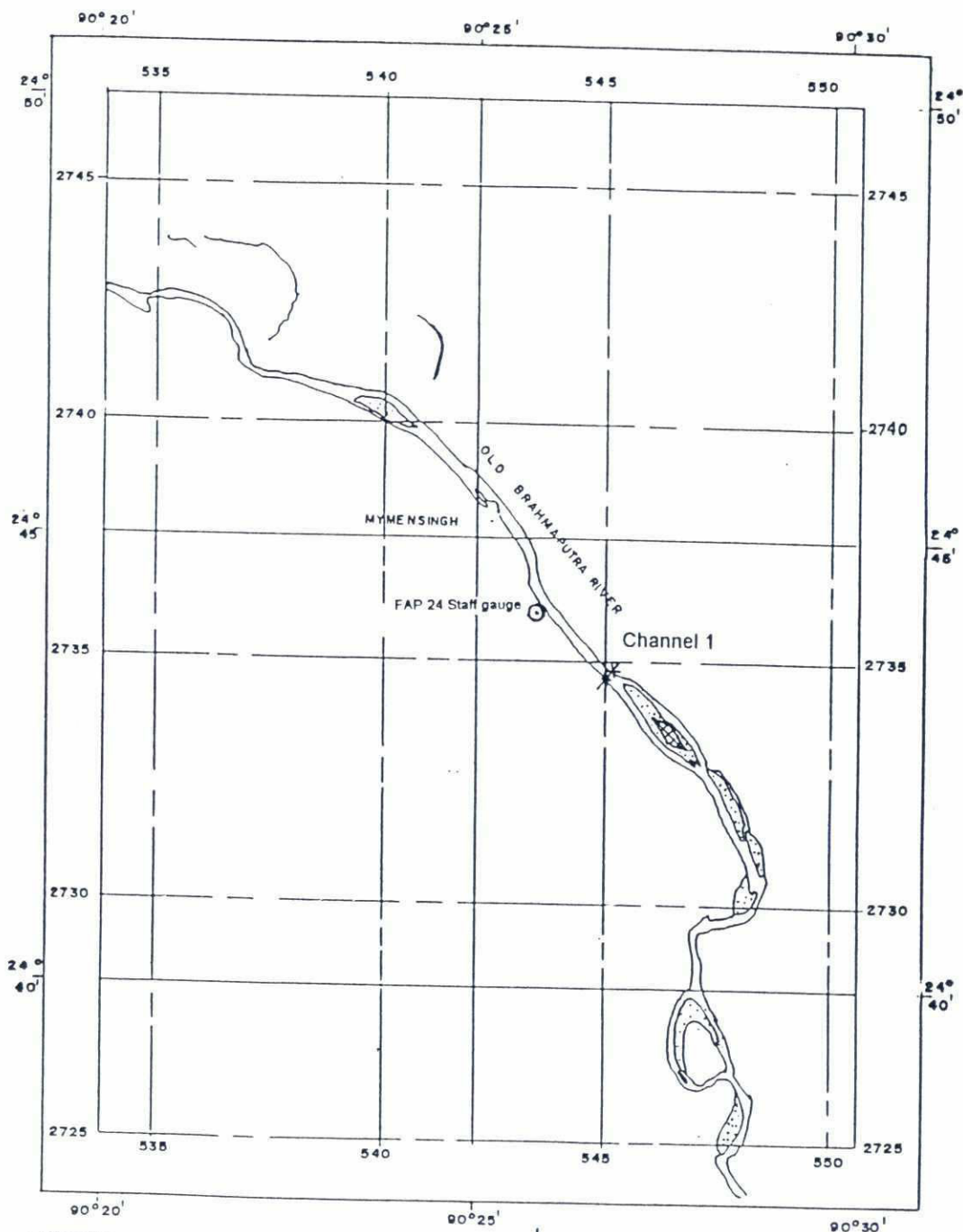
Date of Survey : 31 January 1994

Location : Old Brahmaputra River, Mymensingh

Station No. 7

Table 2.2 List of Sediment Samples

Types of Data	Channel	Format	Filename
ADCP/S4/EMF	1	QUATTRO	Y41V0T01 .ase
Echosounder	1	QUATTRO	Y41V0T01 .ech
Sediment transport data	1	QUATTRO	Y41V0T01 .sed
Bed load sediment analysis	1	QUATTRO	Y41V0T01 .bdl
Suspended sed. conc. analysis	1	QUATTRO	Y41V0T01 .ssc
Transect plot data	1	QUATTRO	Y41V0T01 .trs
Iso-velocity plot data	1	MIKE 21	Y41V0T01 .ct2 Y41V0T01 .dt2
Table 5.1 PSD 24 Database file description			



LEGEND:-

- Measurement cross section
- High land
- Unstable / low char
- BWDB Embankment
- FAP 24 Staff gauge



5000 m 2500 m 0

Map is based on
Satellite image of April, 1989



RIVER SURVEY PROJECT

Delft Hydraulic & Danish Hydraulic Institute
in association with Osmo/Approtech/Hydroland

Survey Bulletin No. 37 - Feb, 1994

Location No.7 Old Brahmaputra River Mymensingh

File:

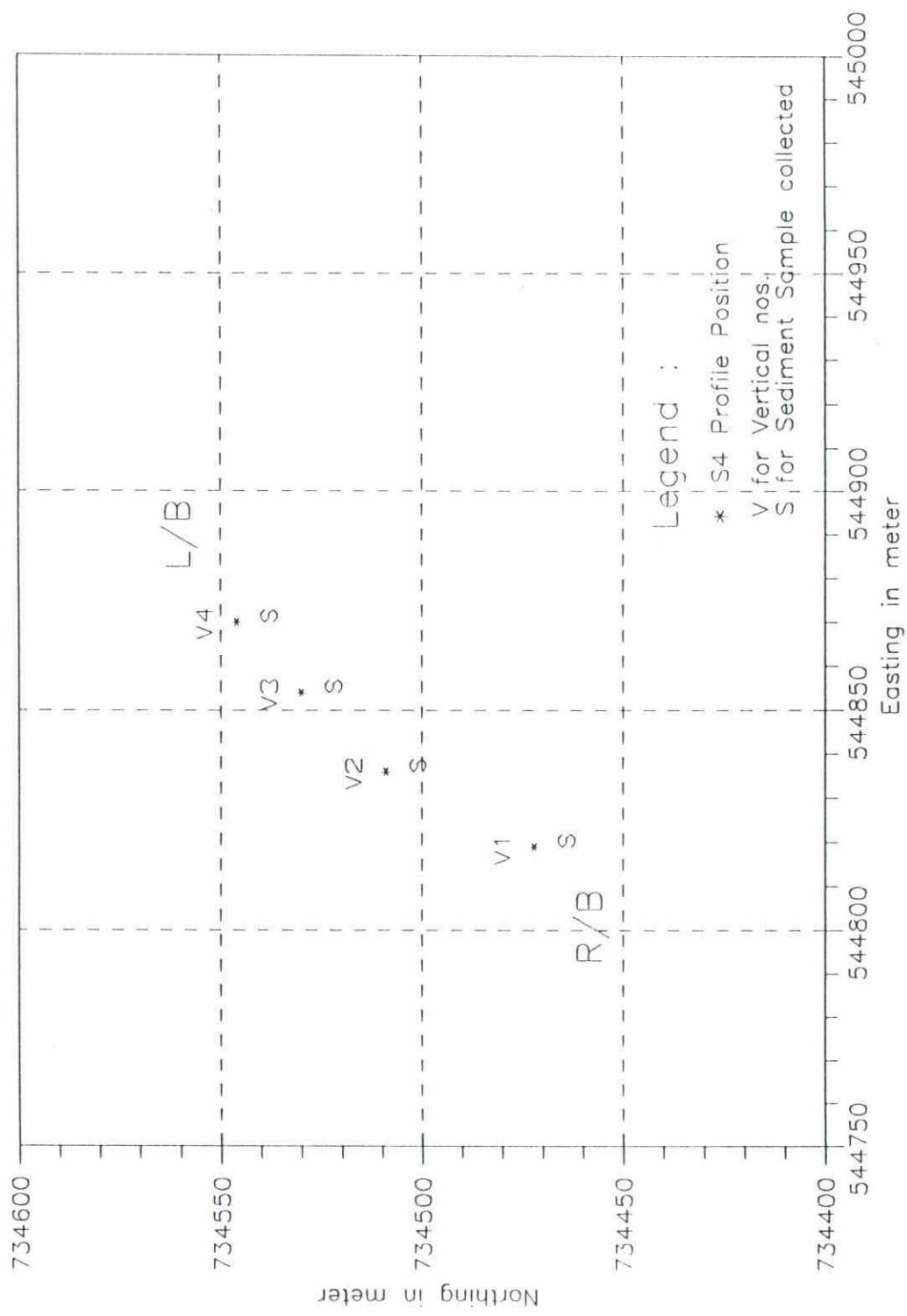
Date:

Scale:

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KEY PLAN

Fig.



RIVER SURVEY PROJECT
Flood Plan Coordination Organization
Commission of the European Communities

Survey Bulletin 37 : February 1994

Location 7 : Old Brahmaputra River, Mymensingh

	Date	Location of Measurements	
	Init		

River : Old Brahmaputra
S4 Discharge

Date of Survey : 23 February 1994

Location : Old Brahmaputra River, Mymensingh

Location No : 7

Date	Profile	Water Level (m+PWD)	Total Width (m)	Area (sq.m)	Discharge (cumec)	Sediment Transport (Kg/s)
23/02/94	Y42N0P01	6.55	93	165	13	2.24
23/02/94	Y42N0P02	6.55				
23/02/94	Y42N0P03	6.55				
23/02/94	Y42N0P04	6.55				

Table 3.1 SUMMARY OF RESULTS (S4-discharge)

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River : Old Brahmaputra
S4 Velocity

Date of Survey : 23 February 1994
Location : Old Brahmaputra River, Mymensingh
Location No : 7

Vertical		Vertical 2		Vertical 3		Vertical 4	
Total depth = 2.90 m		Total depth = 1.80 m		Total depth = 1.40 m		Total depth = 0.90m	
Depth	Velocity	Depth	Velocity	Depth	Velocity	Depth	Velocity
[m]	[m/s]	[m]	[m/s]	[m]	[m/s]	[m]	[m/s]
0.59	0.07	0.35	0.12	0.24	0.11	0.49	0.04
1.75	0.10	1.05	0.12	0.77	0.08		
2.33	0.05	1.08	0.04				

Table 3.2 SUMMARY OF RESULTS (S4 Current)

River : Old Brahmaputra
Concentration

Date of Survey : 23 February 1994

Location : Old Brahmaputra River, Mymensingh

Location No : 7

Vertical		Vertical 2		Vertical 3		Vertical 4	
Total depth = 2.90 m		Total depth = 1.80 m		Total depth = 1.40 m		Total depth = 0.90m	
Depth	Conc.	Depth	Conc.	Depth	Conc.	Depth	Conc.
[m]	[mg/l]	[m]	[mg/l]	[m]	[mg/l]	[m]	[mg/l]
0.59	10.25	0.35	13.37	0.24	11.99	0.49	29.03
1.75	11.42	1.05	14.19	0.77	15.75		
2.33	11.07	1.08	15.51				

Table 3.3 SUMMARY OF RESULTS (Suspended Sediment Concentration)


Type		Time		File Name	Ver. No.	Easting (meter)	Northing (meter)	DISCHARGE GAUGING				SEDIMENT TRANSPORT GAUGING					
		From	To					ADCP	HYDRO	EMF	S4	MEX	Suspended Sediment Samples	Andreassen Tube Samples	Helley Smith Samples	Integrated Sediment Samples	Bottom Samples
Echo-sounding	11:39:00	11:41:00	Y42N0T01*						B								
Profile	11:59:00	12:17:00	Y42N0P01	1	544819	734472			P		P		3	-	-	-	-
Profile	12:29:00	12:43:00	Y42N0P02	2	544836	734509			P		P		3	-	-	-	-
Profile	12:51:00	13:01:00	Y42N0P03	3	544854	734530			P		P		2	-	-	-	-
Profile	13:16:00	13:21:00	Y42N0P04	4	544870	734546			P		P		1	-	-	-	-

* echo-sounding in PSD 24 data base

* echo-sounding in PSD 24 data base

Date of Survey : 23 February 1994
Location : Old Brahmaputra River, Mymensingh
Location No : 7

Table 2.1 (SURVEY PROGRAMME AS MADE)



Type Of Samples	Sample	Total	Vertical
	Nos.	Sample Nos.	No.
Point Integrated Samples	A1280,A1328,A1322	3	1
	A1273,A1263,A1291	3	2
	A1244,A1290	2	3
	A1220	1	4

Date of Survey : 23 February 1994

Location : Old Brahmaputra River, Mymensingh

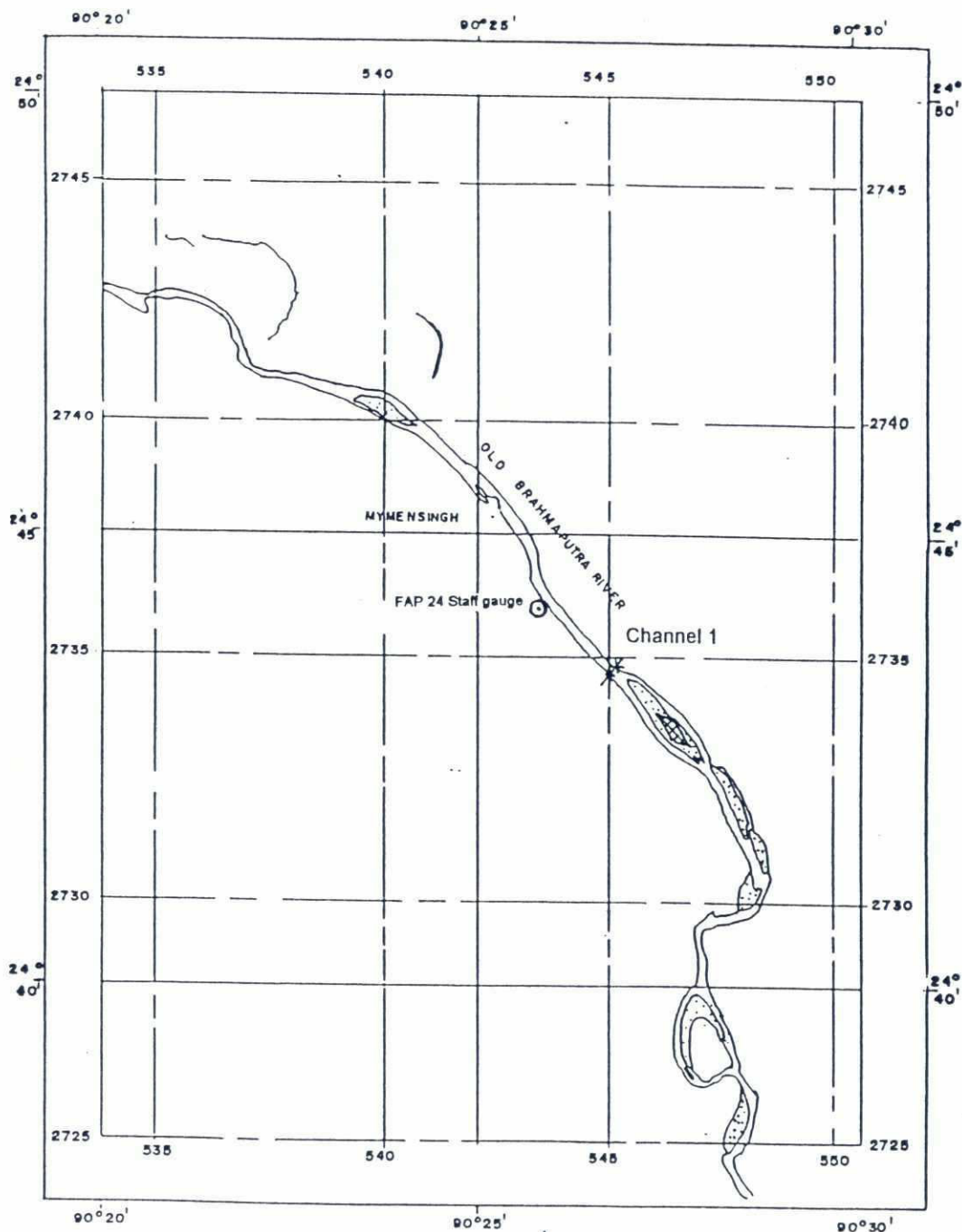
Location No : 7

Table 2.2 List of Sediment Samples

72

Types of Data	Channel	Format	Filename
ADCP/S4/EMF	1	QUATTRO	Y42N0T01 .ase
Echosounder	1	QUATTRO	Y42N0T01 .ech
Sediment transport data	1	QUATTRO	Y42N0T01 .sed
Bed load sediment analysis	1	QUATTRO	Y42N0T01 .bdl
Suspended sed. conc. analysis	1	QUATTRO	Y42N0T01 .ssc
Transect plot data	1	QUATTRO	Y42N0T01 .trs
Iso-velocity plot data	1	MIKE 21	Y42N0T01 .ct2 Y42N0T01 .dt2

Table 5.1 PSD 24 Database file description



LEGEND:-

- X—X Measurement cross section
- High land
- Unstable / low char
- BWDB Embankment
- FAP 24 Staff gauge



5000 m 2500 m 0

Map is based on
Satellite image of April, 1989



RIVER SURVEY PROJECT

Delft Hydraulics/Danish Hydraulic Institute
in association with Oxis/Approtech/hydroland

Survey Bulletin No. 42 - Mar, 1994

Location No.7 Old Brahmaputra River Mymensingh

File:

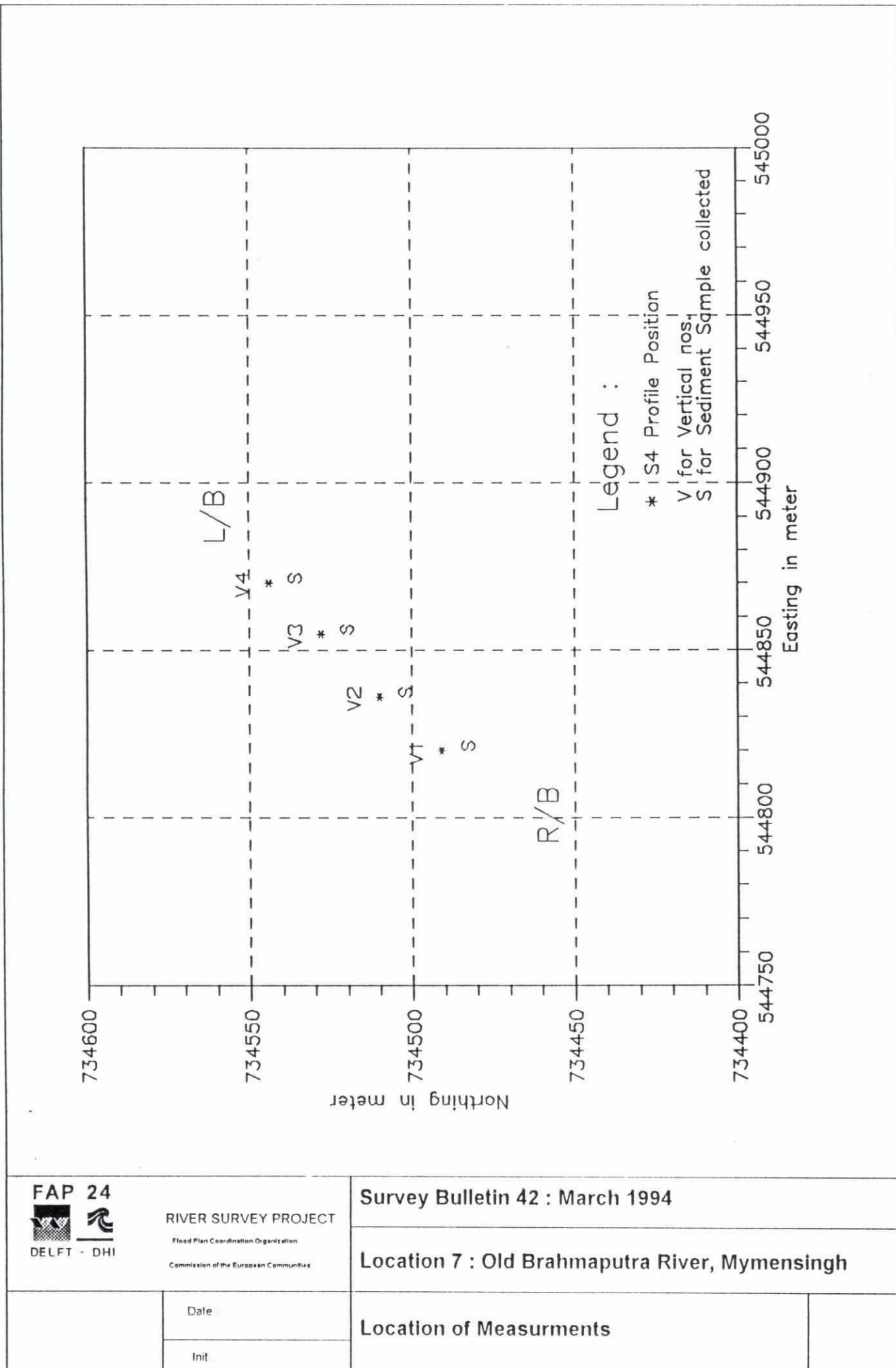
Date:

Scale:

Init:

KEY PLAN

Fig.



22
River : Old Brahmaputra
S4 Discharge

Date of Survey : 20 March 1994

Location : Old Brahmaputra River, Mymensingh

Station No. 7

Date	Profile	Water Level	Total Width	Area	Discharge	Sediment Transport
		(m+PWD)	(m)	(sq.m)	(cumec)	(Kg/s)
20/03/94	Y43K0P01	6.44	90	142	7	0.795
20/03/94	Y43K0P02	6.44				
20/03/94	Y43K0P03	6.44				
20/03/94	Y43K0P04	6.44				

Table 3.1 SUMMARY OF RESULTS (S4-discharge)

River : Old Brahmaputra

S4 Velocity

Date of Survey : 20 March 1994

Location : Old Brahmaputra River, Mymensingh

Station No. 7

Vertical 1		Vertical 2		Vertical 3		Vertical 4	
Total depth = 3.10 m		Total depth = 1.80 m		Total depth = 1.40 m		Total depth = 0.80m	
Depth	Velocity	Depth	Velocity	Depth	Velocity	Depth	Velocity
[m]	[m/s]	[m]	[m/s]	[m]	[m/s]	[m]	[m/s]
0.49	0.07	0.35	0.03	0.30	0.03	0.45	0.06
1.89	0.05	1.06	0.05	0.81	0.04		
2.45	0.01	1.35	0.14	0.93	0.05		

Table 3.2 SUMMARY OF RESULTS (S4 Current)

River : Old Brahmaputra

Concentration

Date of Survey : 20 March 1994

Location : Old Brahmaputra River, Mymensingh

Station No. 7

Vertical 1		Vertical 2		Vertical 3		Vertical 4	
Total depth = 3.10 m		Total depth = 1.80 m		Total depth = 1.40 m		Total depth = 0.80m	
Depth	Conc.	Depth	Conc.	Depth	Conc.	Depth	Conc.
[m]	[mg/l]	[m]	[mg/l]	[m]	[mg/l]	[m]	[mg/l]
0.49	0.00	0.35	2.20	0.30	11.27	0.45	sample is cancelled due to accumulation of moss.
1.89	0.00	1.06	2.88	0.81	15.05		
2.45	1.19	1.35	5.37	0.93	32.44		

Table 3.3 SUMMARY OF RESULTS (Suspended Sediment Concentration)



Type	Time		File Name	Ver. No.	Easting (meter)	Northing (meter)	DISCHARGE GAUGING					SEDIMENT TRANSPORT GAUGING					
	From	To					ADCP	HYDRO	EMF	S4	MEX	Suspended Sediment Samples	Andreasen Tube Samples	Helley Smith Samples	Integrated Sediment Samples	Bottom Samples	
Echo - sounding	08:07:00	08:10:00	Y43K0T01*						B								
Profile	11:31:00	11:47:00	Y43K0P01	1	544820	734491			P		P		3	-	-	-	-
Profile	11:58:00	12:12:00	Y43K0P02	2	544836	734510			P		P		3	-	-	-	-
Profile	12:21:00	12:37:00	Y43K0P03	3	544855	734528			P		P		3	-	-	-	-
Profile	12:49:00	12:52:00	Y43K0P04	4	544870	734544			P		P		1	-	-	-	-

transect in PSD 24 data base

Date of Survey : 20 March 1994
Location : Old Brahmaputra River, Mymensingh
Station No. 7

Table 2.1 (SURVEY PROGRAMME AS MADE)

20

Type Of Samples	Sample Nos.	Total Sample Nos.	Vertical No.
Point Integrated Samples	A1425,A1444,A1454	3	1
	A1476,A1449,A1450	3	2
	A1420,A1452,A1443	3	3
	A1442	1	4

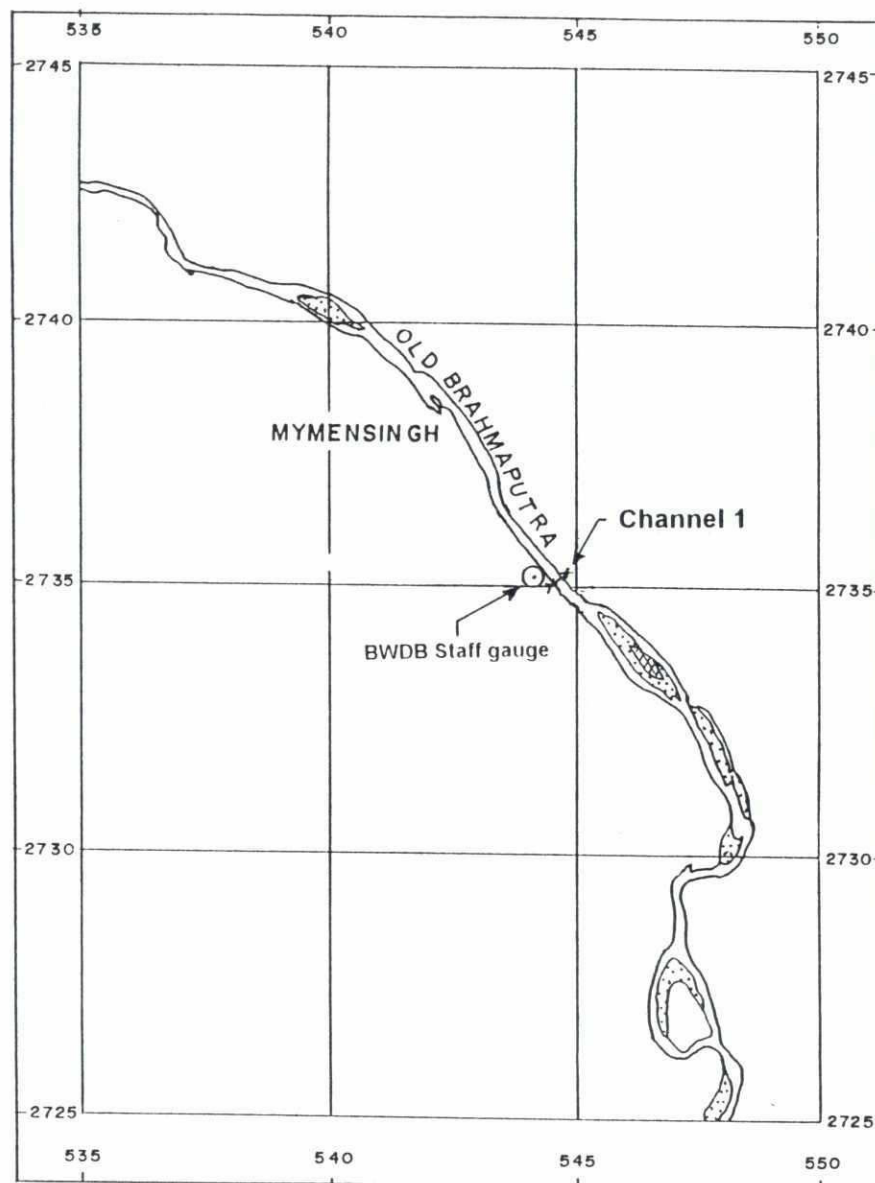
Date of Survey : 20 March 1994

Location : Old Brahmaputra River, Mymensingh

Station No. 7

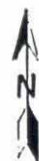
Table 2.2 List of Sediment Samples

23 Types of Data	Channel	Format	Filename
ADCP/S4/EMF	1	QUATTRO	Y43K0T01 .ase
Echosounder	1	QUATTRO	Y43K0T01 .ech
Sediment transport data	1	QUATTRO	Y43K0T01 .sed
Bed load sediment analysis	1	QUATTRO	Y43K0T01 .bdl
Suspended sed. conc. analysis	1	QUATTRO	Y43K0T01 .ssc
Transect plot data	1	QUATTRO	Y43K0T01 .trs
Iso-velocity plot data	1	MIKE 21	Y43K0T01 .ct2 Y43K0T01 .dt2
Table 5.1 PSD 24 Database file description			



LEGEND:-

- ×—× Cross section
- ▨ High land
- Unstable/low char
- BWDB Staff gauge



Map is based on satellite images of Nov. 1990



RIVER SURVEY PROJECT
Flood Plan Coordination Organization
Commission of the European Communities

Survey Bulletin 64 : 15 June, 1994

Location 7 : Old Brahmaputra River, Mymensingh

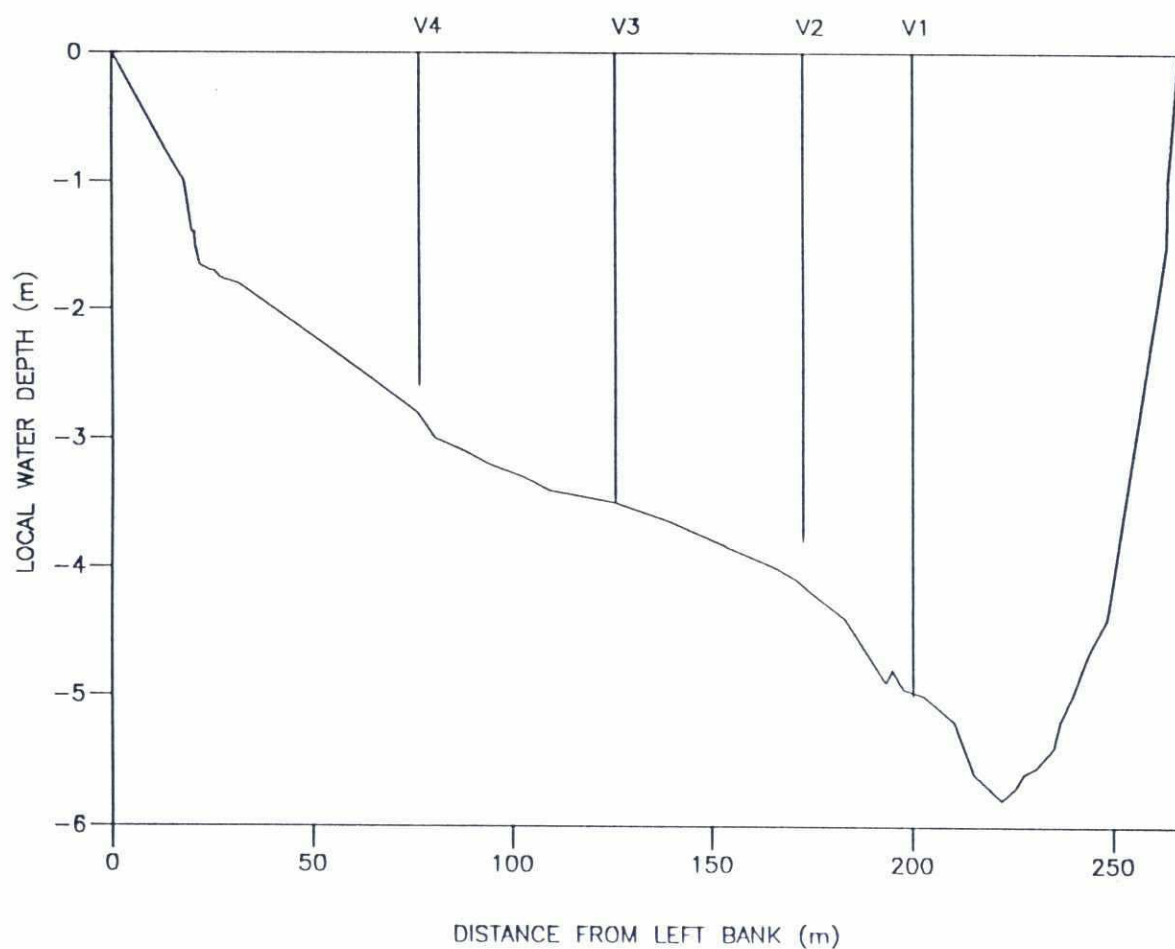
Date : 05 Aug 1994

Init : mzh

Location map

page

1.1



Water level : 9.04 m + PWD measured at the station indicated on page 1.1

FAP 24



DELFT - DHI

RIVER SURVEY PROJECT
Flood Plan Coordination Organization
Commission of the European Communities

Survey Bulletin 64 : 15 June, 1994

Location 7 : Old Brahmaputra River, Mymensingh

File : Y46F0T02

Date : 05 Aug 1994

Init : mzh

Cross-sections and measured verticals
Channel 1

page

1.2

22


Type of measurement	Method	No. of measurements in channel			
		1	2	3	4
Discharge	ADCP transect	-	-	-	-
	EMF transect	-	-	-	-
	Echo-Sounding	1	-	-	-
Vertical current profile	No. of verticals in channel	4	-	-	-
	ADCP	-	-	-	-
	S4 current meter	4	-	-	-
	Ott current meter	-	-	-	-
Vertical sediment profile	Pump bottle sampling	21	-	-	-
	Andreasen settling tube	-	-	-	-
	MEX turbidity meter	-	-	-	-
	Integrated bottle sampling	-	-	-	-
	Collapsible bag	-	-	-	-
Bed load	Dune tracking	-	-	-	-
	Helley-Smith sampler	6	-	-	-
	Delft Bottle	-	-	-	-
Bed material	US BM-54 bed sampler	-	-	-	-
	Van Veen bed sampler	-	-	-	-

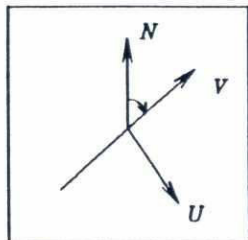
Table 2.1: Survey programme as made

	Width (m)	Area (m ²)	Stage h (m+PWD)	Discharge Q (m ³ /s)	Bed load transport Sb (kg/s)	Suspended Sediment transport Ss total (kg/s)
Channel 1	266	900	9.04	416	0.41	142.22

Table 2.2: Key figures

Gauge Location	Channel 1	Date	Water level (Daily average) (m+PWD)	Gauge
Mymensingh	Channel 1	15 June 94	9.04	BWDB

 FAP 24 RIVER SURVEY PROJECT Flood Plan Coordination Organization Commission of the European Communities		Survey Bulletin 64 : 15 June, 1994	
		Location 7 : Old Brahmaputra River, Mymensingh	
File : Y46F0T02	Date : 05 Aug 1994	Survey programme as made and key figures	page
	Init : mzh		2.1

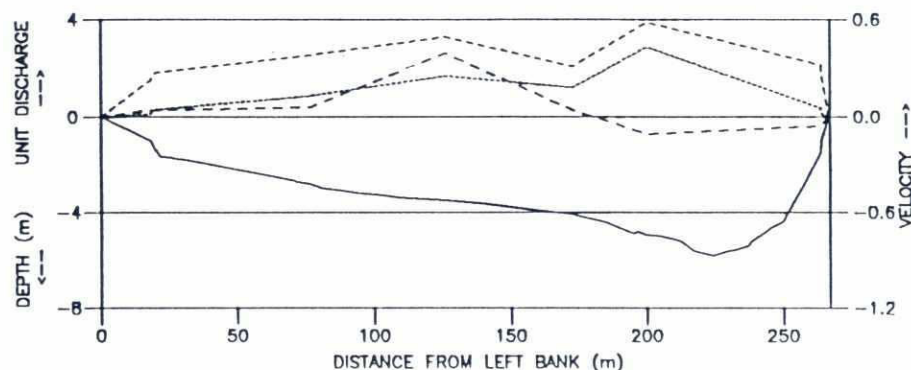


TRANSECT AZIMUTH = 48°

U - VELOCITY NORMAL TO TRANSECT (m/s)

V - VELOCITY PARALLEL TO TRANSECT (m/s)

N - MAGNETIC NORTH



FLOW

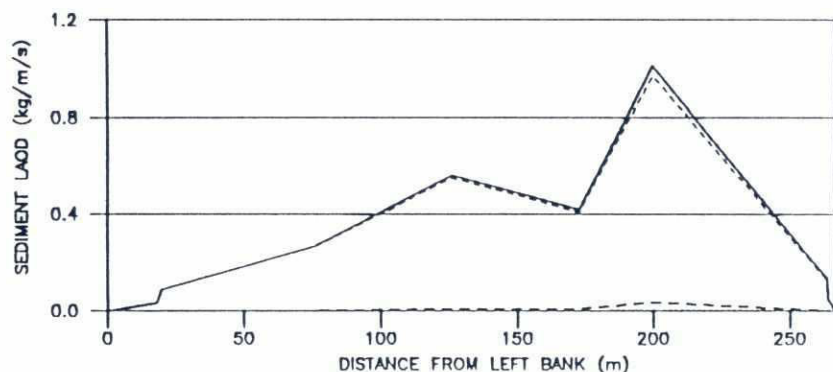
LEGEND :

— WATER DEPTH (m below STAGE)
 --- UNIT DISCHARGE (m³/s.m)
 ... U (m/s)
 -.- V (m/s)

STAGE = 9.04 (m+PWD)

A = 900 (m²)

Q = 416 (m³/s)



SEDIMENT TRANSPORT

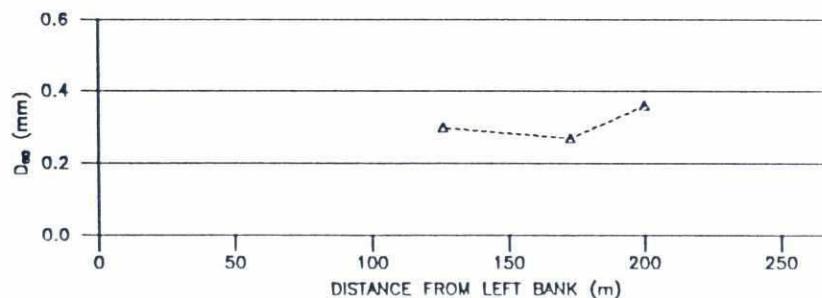
LEGEND :

— S_{TOTAL} 142.63 (kg/s)

--- S_{WASH LOAD} 138.33 (kg/s)

-.- S_{SUSP. BED} 3.89 (kg/s)

... S_{BED LOAD} 0.41 (kg/s)



GRAIN SIZE

LEGEND :

◇◇◇◇◇ D₅₀ SUSP. (mm)

△△△△△ D₅₀ BED LOAD (mm)

□□□□□ D₅₀ BED MAT. (mm)

FAP 24



DELFT - DHI

RIVER SURVEY PROJECT
 Flood Plan Coordination Organization

Commission of the European Communities

Survey Bulletin 64 : 15 June, 1994

Location 7 : Old Brahmaputra River, Mymensingh

File : Y46F0T02

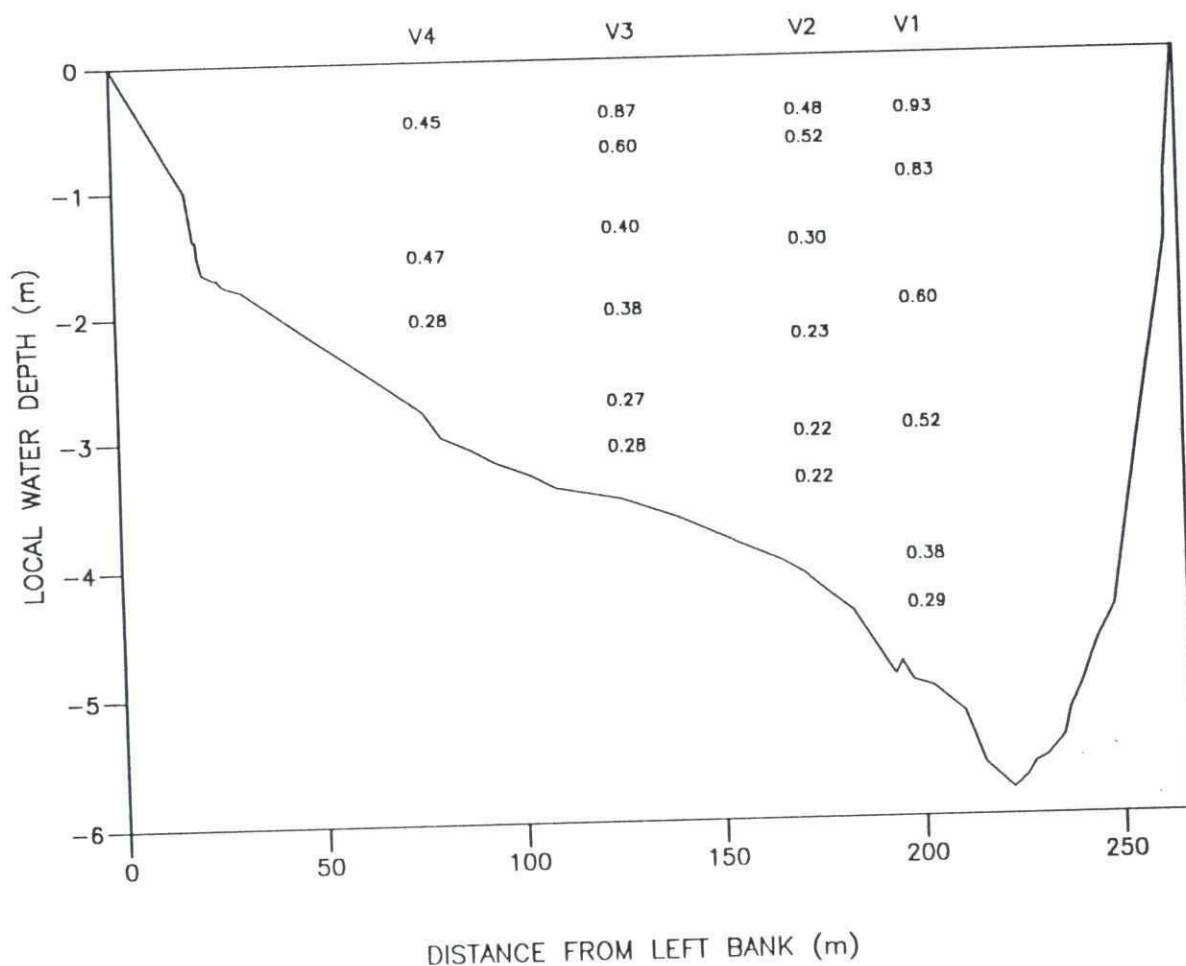
Date : 05 Aug 1994

Init : mzh

Horizontal distribution of flow and sediments
 Channel 1

page

3.1



Water level : 9.04 m + PWD measured at the station indicated on page 1.1

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Helley - Smith								
Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Depth	Weight percent		D35	D50	D65
				< 0.06 mm	> 0.06 mm	(mm)	(mm)	(mm)
1	1	9406151444-1512	5.00	0.091	99.909	0.318	0.361	0.410
	2	9406151551-1618	3.80	9.980	90.020	0.212	0.277	0.335
	3	9406151624-1648	3.50	10.466	89.534	0.203	0.267	0.326
	1	9406151444-1512	5.00	0.151	99.849	0.317	0.36	0.409
	2	9406151551-1618	3.80	3.824	96.176	0.208	0.265	0.323
	3	9406151624-1648	3.50	0.677	99.323	0.293	0.334	0.381

Table 5.1: Grain sizes of bed load

Method	Channel	Time (YYMMDDHHMM-HHMM)	File name
Echosounding	1	9406151145-1148	Y46F0T02 *

Table 6.1: Echosounding

* : echosounding in PSD 24 data base and presented in Sections 3 and 4

Method	Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)	File name
Vertical current & turbidity profiles (ADCP/S4/MEX)	1	1	9406151444-1512	544842	734496	5.00	Y46F0P01 *
		2	9406151551-1618	544855	734519	3.80	Y46F0P02 *
		3	9406151624-1648	544877	734563	3.50	Y46F0P03 *
		4	9406151724-1734	544920	734592	2.60	Y46F0P04 *

Table 6.2: Vertical profiles


* ADCP & MEX not available

Method	Channel	Vertical	No. of samples	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)
Suspended sediments (pump bottle)	1	1	6	9406151444-1512	544842	734496	5.00
		2	6	9406151551-1618	544855	734519	3.80
		3	6	9406151624-1648	544877	734563	3.50
		4	3	9406151724-1734	544920	734592	2.60

Table 6.3: Suspended sediment - point sampled


Method	Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)	Sample No.
Helley-Smith Sample	1	1	9406151444-1512	544842	734496	5.00	A62
		2	9406151551-1618	544855	734519	3.80	A865
		3	9406151624-1648	544877	734563	3.50	A32
		1	9406151444-1512	544842	734496	5.00	A359
		2	9406151551-1618	544855	734519	3.80	A462
		3	9406151624-1648	544877	734563	3.50	A1159

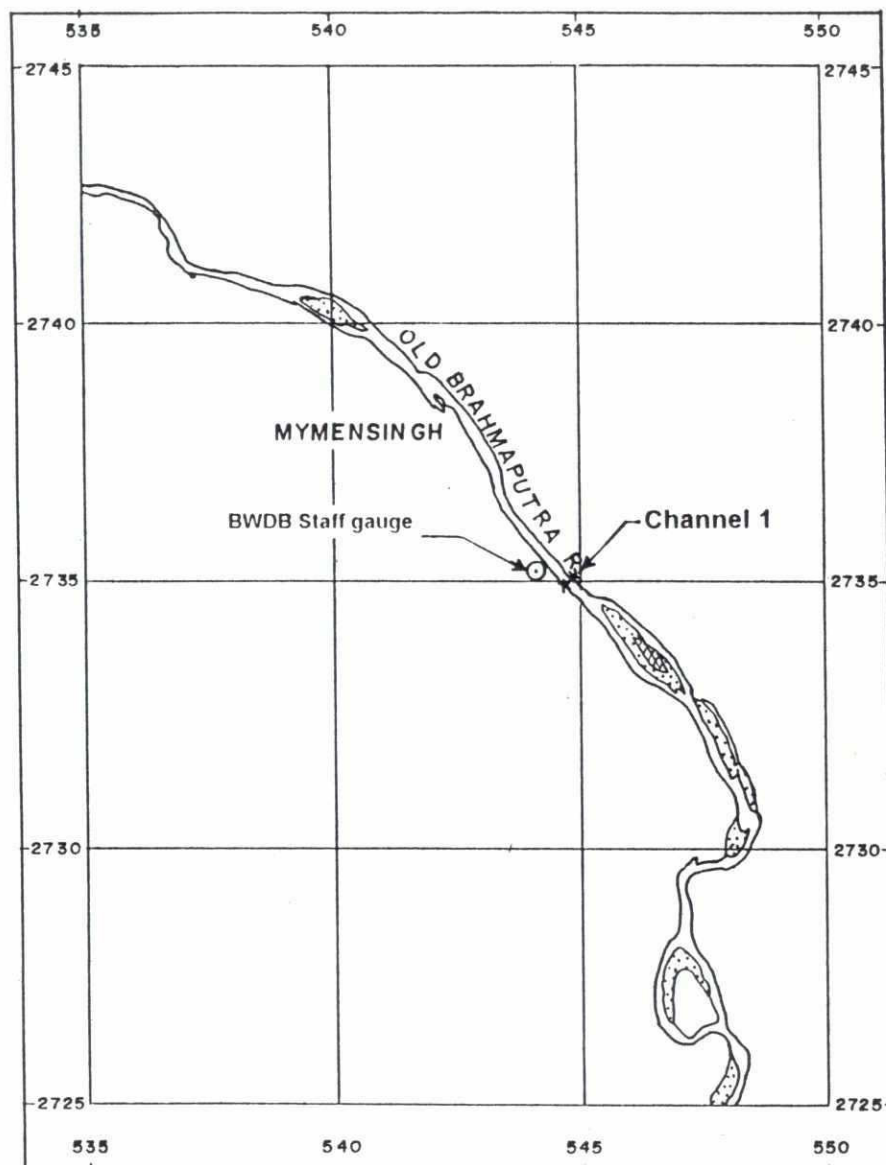
Table 6.5: Bed load

<div><div><div>FAP 24</div><div></div><div>DELFT - DHI</div></div><div><div>RIVER SURVEY PROJECT</div><div>Flood Plan Coordination Organization</div><div>Commission of the European Communities</div></div></div>		Survey Bulletin 64 : 15 June, 1994	
		Location 7 : Old Brahmaputra River, Mymensingh	
	Date : 05 Aug 1994	Collected data and their storage (1)	page 6.1
	Init : mzh		

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Types of Data	Channel	Format	Filename
ADCP/S4/EMF data	1	QUATTRO	Y46F0T02.ase
Echosounder data	1	QUATTRO	Y46F0T02.ech
Sediment transport data	1	QUATTRO	Y46F0T02.sed
Bed load sediment analysis	1	QUATTRO	Y46F0T02.bdl
Susp. sed. conc. analysis	1	QUATTRO	Y46F0T02.ssc
Transect plot data	1	QUATTRO	Y46F0T02.trs
Table 7.1 PSD 24 Database file description			

<div><div><div>FAP 24</div><div></div><div>DELFT - DHI</div></div><div><div>RIVER SURVEY PROJECT</div><div>Flood Plan Coordination Organization</div><div>Commission of the European Communities</div></div></div>		Survey Bulletin 64 : 15 June, 1994	
		Location 7 : Old Brahmaputra River, Mymensingh	
	Date : 05 Aug 1994	PSD 24 Database file description	page 7.1
	Init : mzh		



LEGEND:-

- ✕✕ Cross section
- ▨ High land
- Unstable/low char
- BWDB Staff gauge



5000m 2500m 0

Map is based on satellite
images of Nov. 1990

FAP 24



DELFT - DHI

RIVER SURVEY PROJECT
Flood Plan Coordination Organization
Commission of the European Communities

Survey Bulletin 83 : 19 - 20 July, 1994

Location 7 : Old Brahmaputra River, Mymensingh

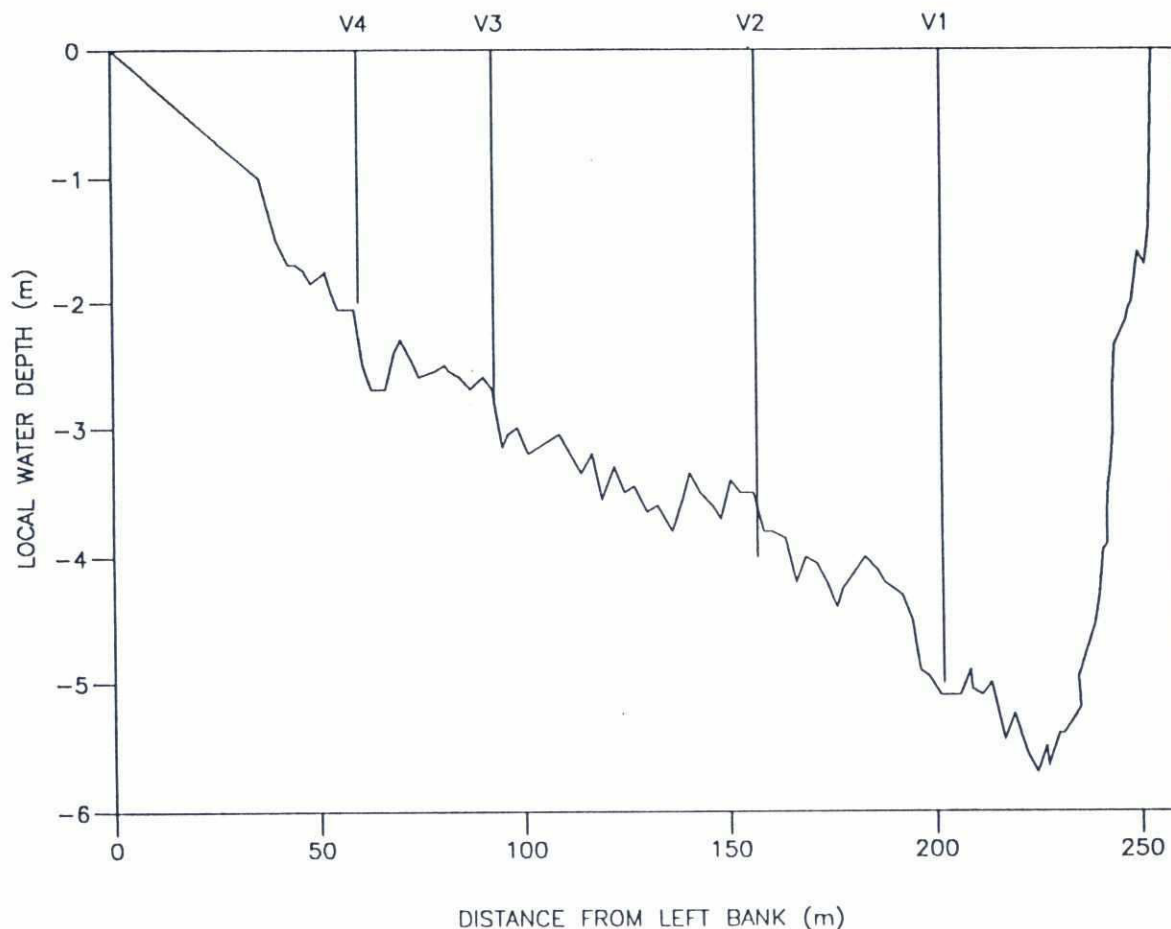
Date : 18 Oct 1994

Init : mk

Location map

page

1.1



Water-level : 8.65 m + PWD measured at the station indicated on page 1.1

Type of measurement	Method	No. of measurements in channel			
		1	2	3	4
Discharge	ADCP transect	-	-	-	-
	EMF transect	-	-	-	-
	Echo-Sounding	2	-	-	-
Vertical current profile	No. of verticals in channel	4	-	-	-
	ADCP	-	-	-	-
	S4 current meter	4	-	-	-
	Ott current meter	-	-	-	-
Vertical sediment profile	Pump bottle sampling	18	-	-	-
	Andreasen settling tube	-	-	-	-
	MEX turbidity meter	-	-	-	-
	Integrated bottle sampling	-	-	-	-
	Collapsible bag	-	-	-	-
Bed load	Dune tracking	-	-	-	-
	Helley-Smith sampler	8	-	-	-
	Delft Bottle	-	-	-	-
Bed material	US BM-54 bed sampler	-	-	-	-
	Van Veen bed sampler	-	-	-	-

Table 2.1: Survey programme as made


Channel	Width (m)	Area (m ²)	Stage h (m+PWD)	Discharge Q (m ³ /s)	Bed load transport Sb (kg/s)	Suspended Sediment transport Ss total (kg/s)
Channel 1	254	781	8.65	271	2.4	83.4

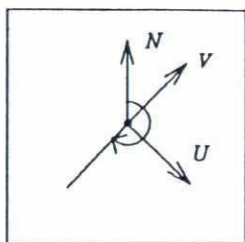
Table 2.2: Key figures

Gauge Location	Channel	Date	Water level (Daily average) (m+PWD)	Gauge
Mymensingh	Channel 1	19 Jul 94	8.65	BWDB
		20 Jul 94	8.49	

Table 2.3: Water-levels



<div><div><div>FAP 24</div><div></div><div>DELFT - DHI</div></div><div><div>RIVER SURVEY PROJECT</div><div>Flood Plan Coordination Organization</div><div>Commission of the European Communities</div></div></div>		Survey Bulletin 83 : 19 - 20 July, 1994	
Location 7 : Old Brahmaputra River, Mymensingh			
File : Y47J0T02	Date : 18 Oct 1994	Survey programme as made and key figures	page 2.1
	init : mk		

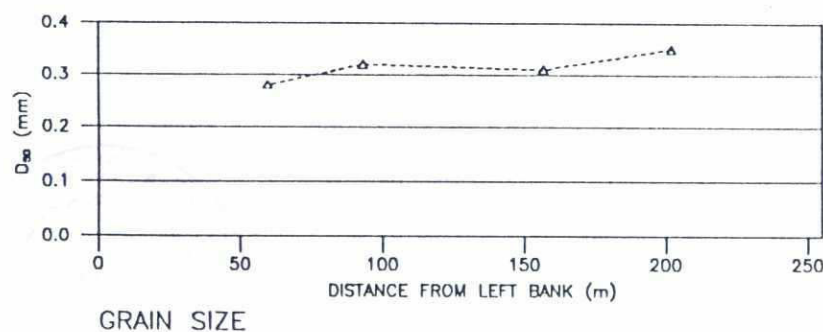
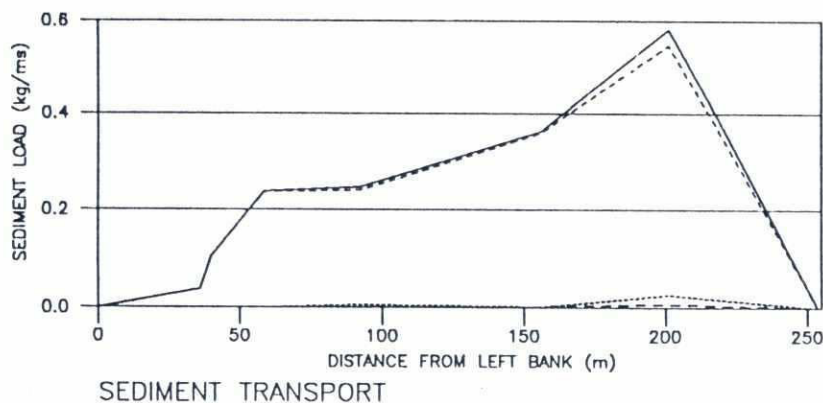
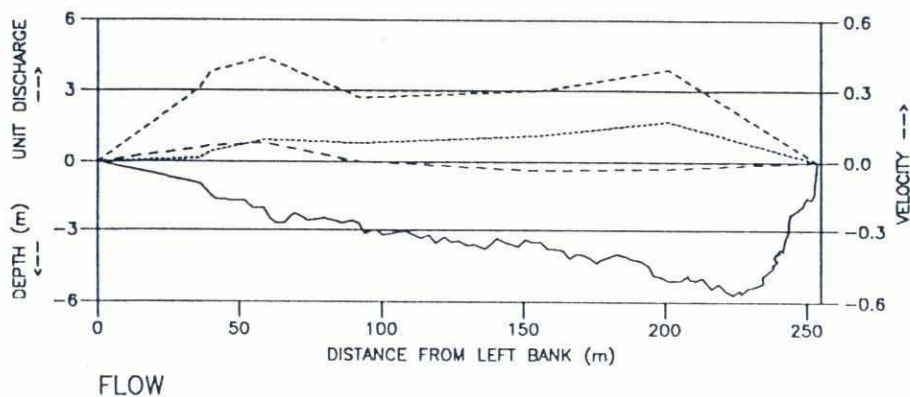


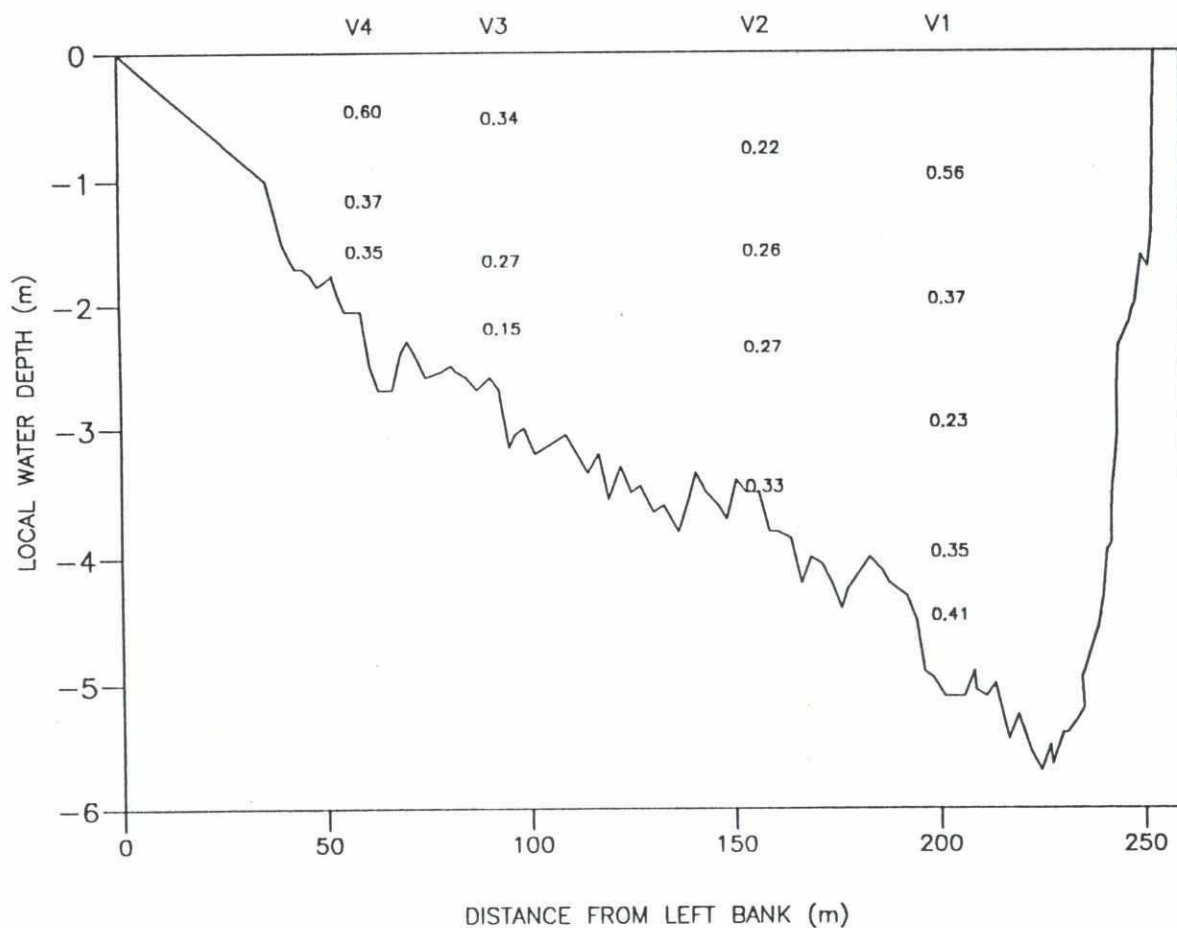
TRANSECT AZIMUTH = 223°

U - VELOCITY NORMAL TO TRANSECT (m/s)


V - VELOCITY PARALLEL TO TRANSECT (m/s)

N - MAGNETIC NORTH





Water level : 8.65 m + PWD measured at the station indicated on the page 1.1

FAP 24  DELFT - DHI		Survey Bulletin 83 : 19 - 20 July, 1994	
		Location 7 : Old Brahmaputra River, Mymensingh	
File : Y47J0T02	Date : 18 Oct 1994	Cross-sectional distribution of flow velocity Channel 1	page
	Init : mk		4.1


Andreasen settling tube								
Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Depth	Weight percent		D10	D50	D90
				< 0.06 mm	> 0.06 mm	(mm)	(mm)	(mm)
Sample not collected								

Table 5.1: Grain size of near bed suspended sediment (0.3 m above river bed)

US BM-54 bed samples							
Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Depth	Weight percent < 0.06 mm > 0.06 mm	D10 (mm)	D50 (mm)	D90 (mm)
Sample not collected							

Table 5.2 : Grain size of bed material

Helley-Smith								
Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Depth	Weight percent		D35	D50	D65
			(m)	< 0.06 mm	> 0.06 mm	(mm)	(mm)	(mm)
1	1	9407200756-0829	5.00	0.082	99.920	0.320	0.366	0.418
	1	9407200756-0829	5.00	0.164	99.840	0.296	0.343	0.398
	2	9407200908-0940	4.00	0.573	99.430	0.277	0.321	0.373
	2	9407200908-0940	4.00	0.192	99.810	0.257	0.302	0.354
	3	9407200951-1003	2.80	0.133	99.867	0.230	0.282	0.336
	3	9407200951-1003	2.80	0.094	99.906	0.310	0.353	0.402
	4	9407201043-1054	2.00	0.836	99.160	0.248	0.294	0.347
	4	9407201043-1054	2.00	0.378	99.620	0.208	0.259	0.316
Table 5.3 : Grain sizes of bed load								

<div><div>FAP 24</div><div></div><div>DELFT - DHI</div></div>		<div>RIVER SURVEY PROJECT</div> <div>Flood Plan Coordination Organization</div> <div>Commission of the European Communities</div>	<div>Survey Bulletin 83 : 19 - 20 July, 1994</div>	
		<div>Location 7 : Old Brahmaputra River, Mymensingh</div>		
	<div>Date : 18 Oct 1994</div>	<div>Grain size distributions</div>	<div>page</div> <div>5.1</div>	
	<div>init : mk</div>			

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Method	Channel	Time (YYMMDDHHMM-HHMM)	File name
Echo Sounding	1	9407191232-1236 9407191239-1241	Y47JOT01 Y47JOT02 *

Table 6.1: Echo sounding * : echo-sounding in PSD 24 data base and presented in Sections 3 and 4

Method	Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)	File name
Vertical current & turbidity profiles (ADCP/S4/MEX)	1	1	9407200756-0829	544814	734499	5.0	Y47KOP01 *
		2	9407200908-0940	544848	734529	4.0	Y47KOP02 *
		3	9407200951-1003	544883	734584	2.8	Y47KOP03 *
		4	9407201043-1054	544910	734604	2.0	Y47KOP04 *

Table 6.2: Vertical profiles * ADCP and MEX not available

Method	Channel	Vertical	No. of samples	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)
Suspended sediments (pump bottle)	1	1	6	9407200756-0829	544814	734499	5.0
		2	6	9407200908-0940	544848	734529	4.0
		3	3	9407200951-1003	544883	734584	2.8
		4	3	9407201043-1054	544910	734604	2.0


Table 6.3: Suspended sediment - point sampled

Method	Channel	Vertical	No. of samples	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)
Suspended sediments (pump bottle)				Sample not collected			

Table 6.4: Suspended sediment - depth integrated

Method	Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)	Sample No.
Helley-Smith Sample	1	1	9407200756-0829	544814	734499	5.0	A2024
		1	9407200756-0829	544814	734499	5.0	A2003
		2	9407200908-0940	544848	734529	4.0	A865
		2	9407200908-0940	544848	734529	4.0	A1969
		3	9407200951-1003	544883	734584	2.8	A1984
		3	9407200951-1003	544883	734584	2.8	A2022
		4	9407201043-1054	544910	734604	2.0	A2019
		4	9407201043-1054	544910	734604	2.0	A1869


Table 6.5: Bed load

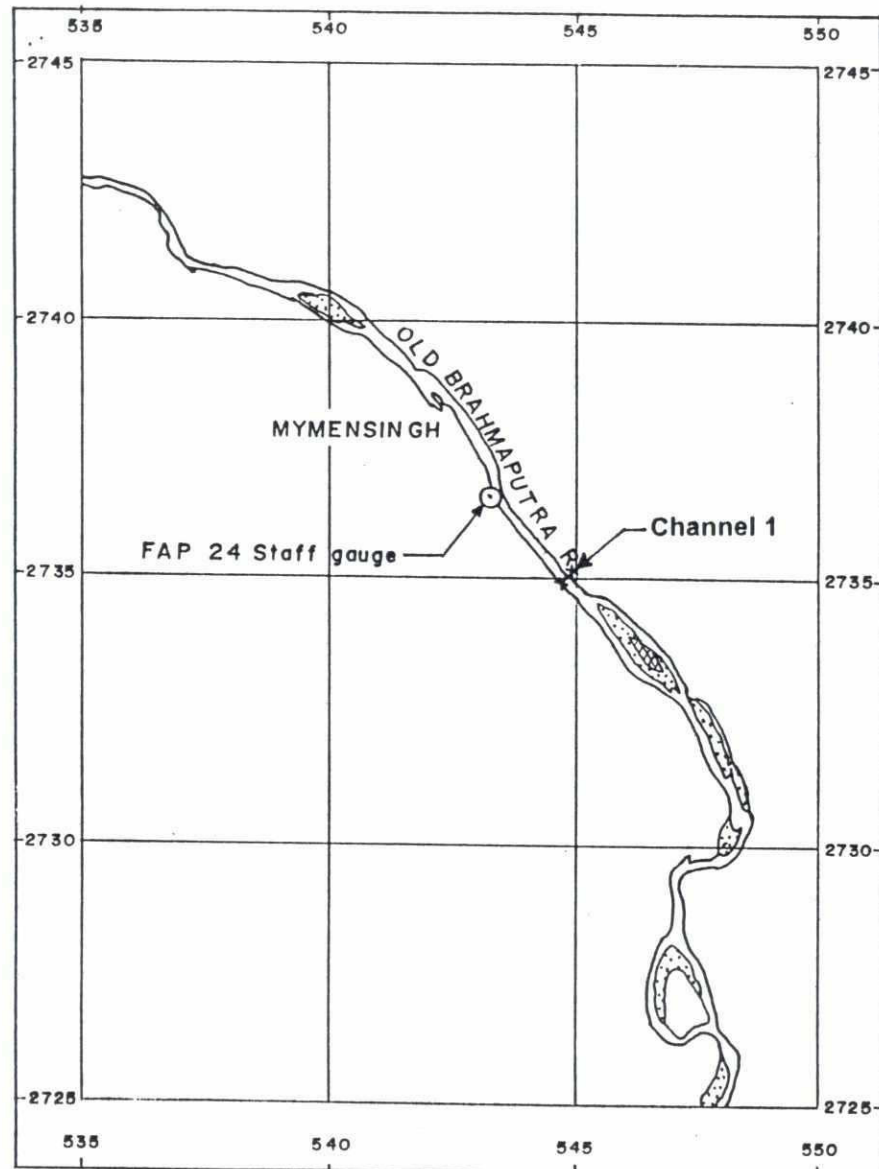
 FAP 24 RIVER SURVEY PROJECT Flood Plan Coordination Organization Commission of the European Communities		Survey Bulletin 83 : 19 - 20 July, 1994	
		Location 7 : Old Brahmaputra River, Mymensingh	
	Date: 18 Oct 1994	Collected data and their storage (1)	page 6.1
	init : mk		

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Types of Data	Channel	Format	Filename
ADCP/S4/EMF data	1	QUATTRO	Y47J0T02 .ase
Echosounder data	1	QUATTRO	Y47J0T02 .ech
Sediment transport data	1	QUATTRO	Y47J0T02 .sed
Susp. sed. conc. analysis	1	QUATTRO	Y47J0T02 .ssc
Bed load sediment analysis	1	QUATTRO	Y47J0T02 .bdl
Transect plot data	1	QUATTRO	Y47J0T02 .trs

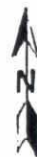
Table 7.1 PSD 24 Database file description

<div><div><div>FAP 24</div><div></div><div>DELFT - DHI</div></div><div><div>RIVER SURVEY PROJECT</div><div>Flood Plan Coordination Organization</div><div>Commission of the European Communities</div></div></div>		Survey Bulletin 83 : 19 - 20 July, 1994	
		Location 7 : Old Brahmaputra River, Mymensingh	
	Date : 18 Oct 1994	PSD 24 Database file description	page
	Init mk		7.1



LEGEND:-

- ✕✕ Cross section
- ▨ High land
- Unstable/low char
- ⊙ FAP 24 Staff gauge



5000m 2500m 0

Map is based on satellite
images of Nov. 1990

FAP 24

DELFT - DHI

RIVER SURVEY PROJECT
Flood Plan Coordination Organization
Commission of the European Communities

Survey Bulletin 103 : 11 October, 1994

Location 7 : Old Brahmaputra River, Mymensingh

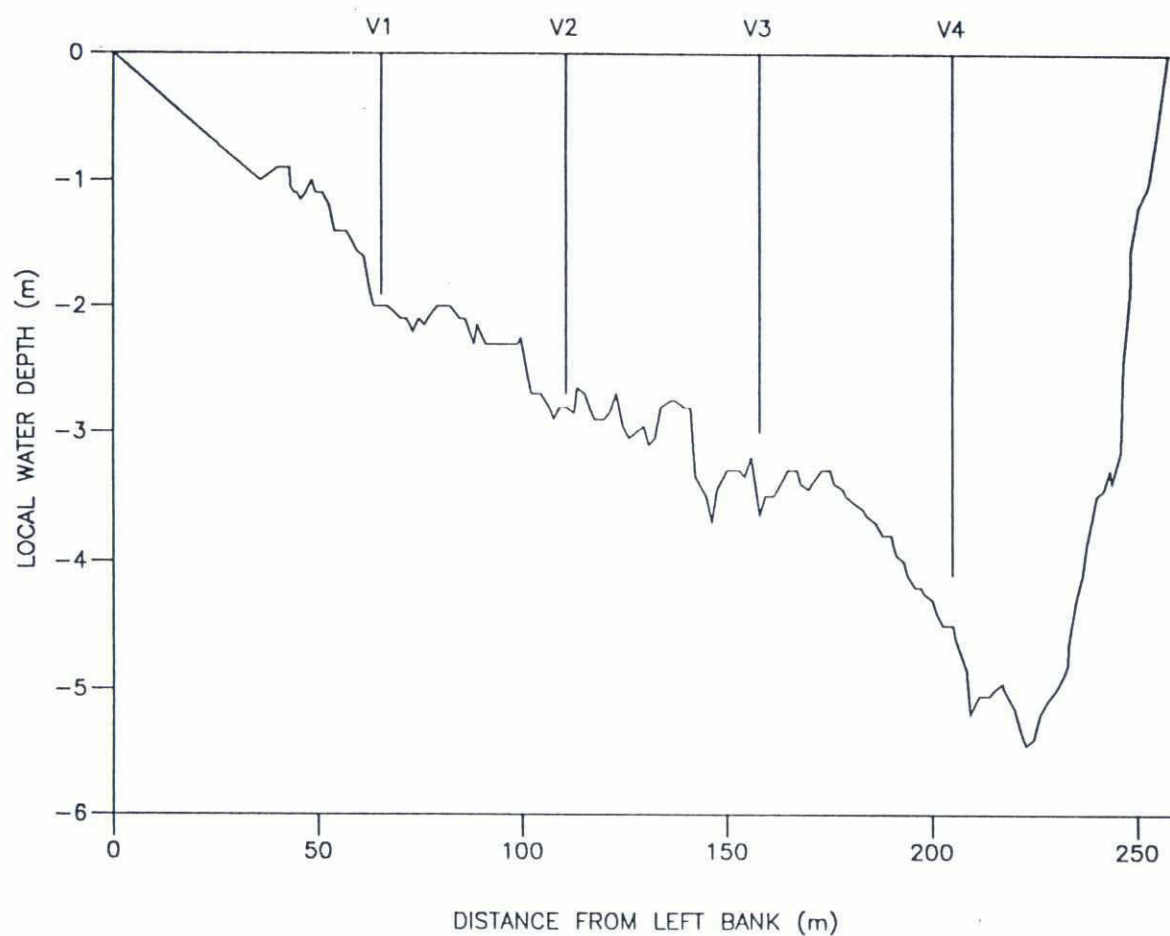
Date : 10 Jan 1995

Init : mk/tr

Location map

page

1.1



Water-level : 8.22 m + PWD measured at the station indicated on page 1.1

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Type of measurement	Method	No. of measurements in channel			
		1	2	3	4
Discharge	ADCP transect	-	-	-	-
	EMF transect	-	-	-	-
	Echo-Sounding	2	-	-	-
Vertical current profile	No. of verticals in channel	4	-	-	-
	ADCP	-	-	-	-
	S4 current meter	4	-	-	-
	Ott current meter	-	-	-	-
Vertical sediment profile	Pump bottle sampling	13	-	-	-
	Andreasen settling tube	-	-	-	-
	MEX turbidity meter	-	-	-	-
	Integrated bottle sampling	-	-	-	-
	Collapsible bag	-	-	-	-
Bed load	Dune tracking	-	-	-	-
	Helley-Smith sampler	-	-	-	-
	Delft Bottle	-	-	-	-
Bed material	US BM-54 bed sampler	-	-	-	-
	Van Veen bed sampler	-	-	-	-


Table 2.1: Survey programme as made

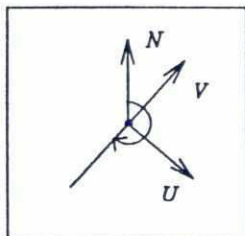
Channel	Width (m)	Area (m ²)	Stage h (m+PWD)	Discharge Q (m ³ /s)	Bed load transport Sb (kg/s)	Suspended Sediment transport Ss total (kg/s)
Channel 1	257	684	8.22	223	0	68.8

Table 2.2: Key figures

Gauge Location	Channel	Date	Water level (Daily average) (m + PWD)	Gauge
Mymensingh	Channel 1	11 Oct 94	8.22	FAP 24

Table 2.3 : Water-levels

<div><div><div>FAP 24</div><div></div><div>DELFT - DHI</div></div><div><div>RIVER SURVEY PROJECT</div><div>Flood Plan Coordination Organization</div><div>Commission of the European Communities</div></div></div>		Survey Bulletin 103 : 11 October, 1994	
		Location 7 : Old Brahmaputra River, Mymensingh	
File : Y4AB0T01	Date : 10 Jan,1995	Survey programme as made and key figure	page
	Init : mk / tr		2.1

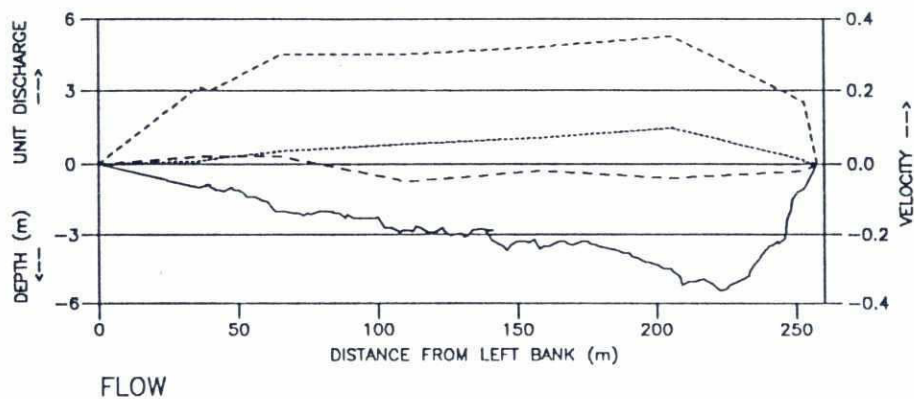


TRANSECT AZIMUTH = 221°

U - VELOCITY NORMAL TO TRANSECT (m/s)

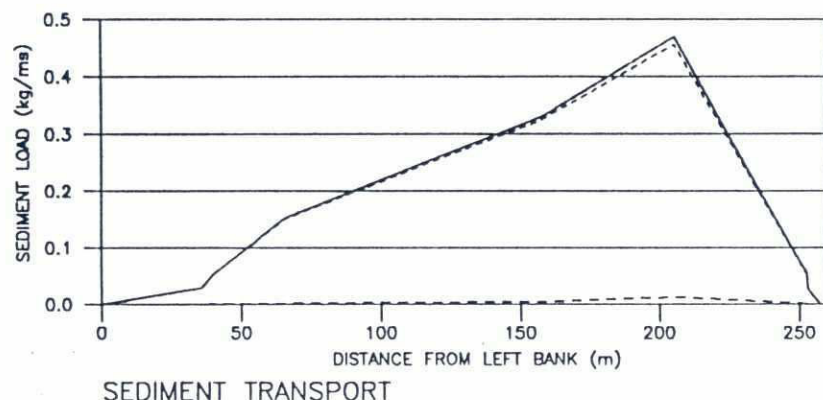
V - VELOCITY PARALLEL TO TRANSECT (m/s)

N - MAGNETIC NORTH



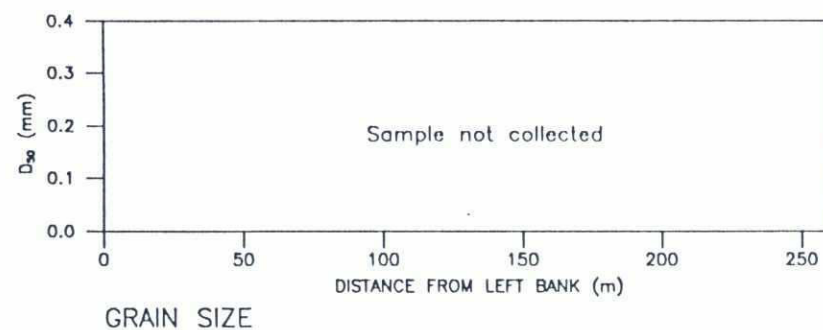
LEGEND :

— WATER DEPTH (m below STAGE)
 UNIT DISCHARGE (m³/s.m)
 --- U - (m/s)
 -.- V - (m/s)
 STAGE = 8.22 (m+PWD)
 A = 684 (m³)
 Q = 223 (m³/s)



LEGEND :

— S_{TOTAL} 68.8 (kg/s)
 --- S_{WASH LOAD} 67.4 (kg/s)
 -.- S_{SUSP. BED} 1.4 (kg/s)
 S_{BED LOAD} 0 (kg/s)



LEGEND :

◇◇◇◇◇ D₅₀ SUSP. (mm)
 △△△△△ D₅₀ BED LOAD (mm)
 □□□□□ D₅₀ BED MAT. (mm)

FAP 24



RIVER SURVEY PROJECT
 Flood Plan Coordination Organization
 Commission of the European Communities

Survey Bulletin 103 : 11 October, 1994

Location 7 : Old Brahmaputra River, Mymensingh

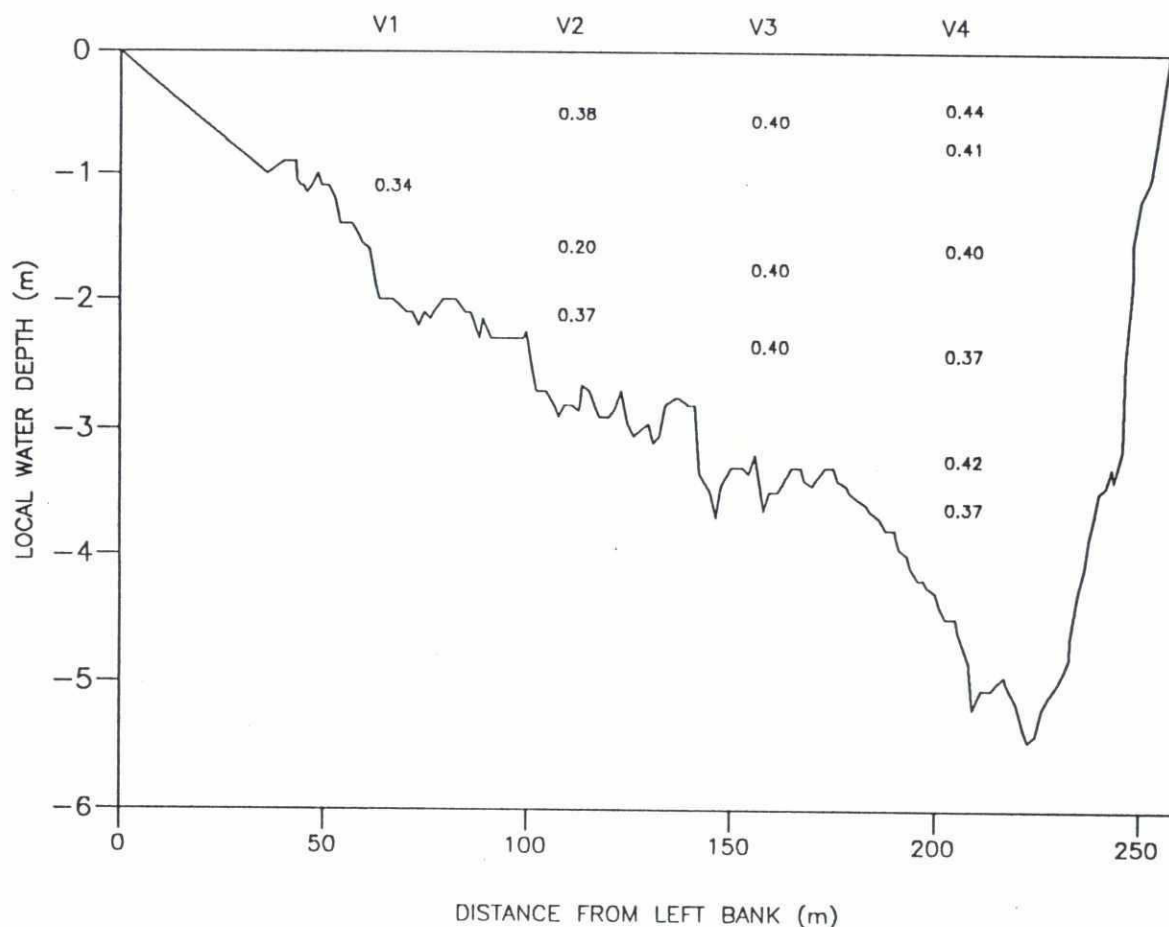
File : Y4AB0T01

Date : 10 Jan, 1995


Init : mk / tr

Horizontal distribution of flow and sediments
 Channel 1

page
 3.1



Water-level : 8.22 m + PWD measured at the station indicated on page 1.1

FAP 24  DELFT - DHI		Survey Bulletin 103 : 11 October, 1994	
		Location 7 : Old Brahmaputra River, Mymensingh	
File : Y4AB0T01	Date : 10 Jan 1995	Cross-sectional distribution of flow velocity Channel 1	page 4.1
	Init : mk/tr		

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Method	Channel	Time (YYMMDDHHMM-HHMM)	File name
Echo sounding	1	9410111236-1238 9410111244-1246	Y4AB0T01 * Y4AB0T02

Table 6.1: Echo sounding

* : transect in PSD 24 data base and presented in Sections 3 and 4


Method	Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)	File name
Vertical current & turbidity profiles (ADCP/S4/MEX)	1	1	9410111636-1639	544919	734598	1.90	Y4AB0P01 *
		2	9410111607-1618	544890	734562	2.70	Y4AB0P02 *
		3	9410111545-1553	544853	734533	3.00	Y4AB0P03 *
		4	9410111448-1516	544813	734504	4.10	Y4AB0P04 *

Table 6.2: Vertical profiles

* ADCP and MEX not available

Method	Channel	Vertical	No. of samples	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)
Suspended sediments (pump bottle)	1	1	1	9410111636-1639	544919	734598	1.90
		2	3	9410111607-1618	544890	734562	2.70
		3	3	9410111545-1553	544853	734533	3.00
		4	6	9410111448-1516	544813	734504	4.10


Table 6.3: Suspended sediment - point sampled

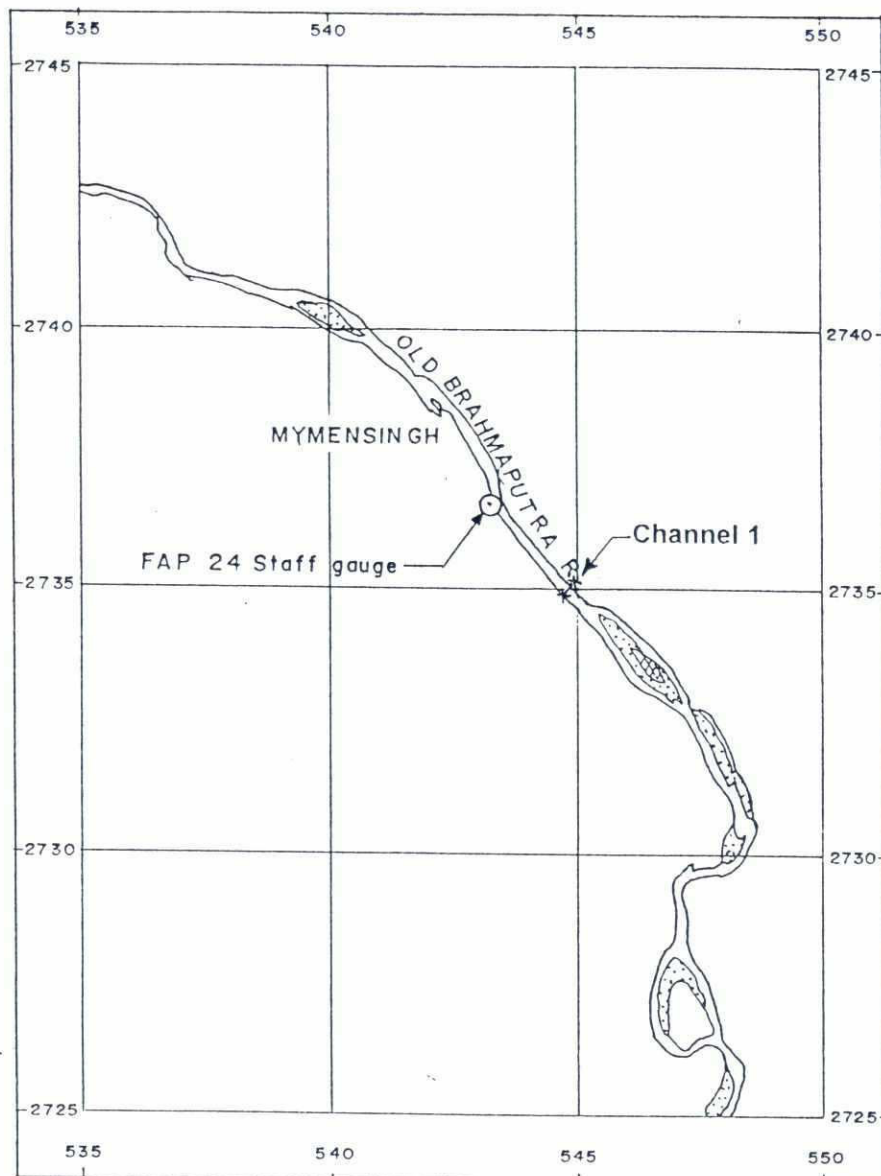
 FAP 24 DELFT - DHI	RIVER SURVEY PROJECT Flood Plan Coordination Organization Commission of the European Communities	Survey Bulletin 103 : 11 October, 1994	
		Location 7 : Old Brahmaputra River, Mymensingh	
	Date : 10 Jan, 1995	Collected data and their storage (1)	page 6.1
	Init : mk / tr		

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Types of Data	Channel	Format	Filename
ADCP/S4/EMF data	1	QUATTRO	Y4AB0T01 .ase
Echosounder data	1	QUATTRO	Y4AB0T01 .ech
Sediment transport data	1	QUATTRO	Y4AB0T01 .sed
Sus. sed. conc. analysis	1	QUATTRO	Y4AB0T01 .ssc
Transect plot data	1	QUATTRO	Y4AB0T01 .trs

Table 7.1 PSD 24 Database file description

 <p>FAP 24 DELFT - DHI</p>	<p>RIVER SURVEY PROJECT Flood Plan Coordination Organization Commission of the European Communities</p>	Survey Bulletin 103 : 11 October, 1994	
		Location 7 : Old Brahmaputra River, Mymensingh	
	Date : 10 Jan, 1995	PSD 24 Database file description	page 7.1
	Init : mk / tr		



LEGEND:-

- x-x Cross section
- High land
- Unstable/low char
- FAP 24 Staff gauge



5000m 2500m 0

Map is based on satellite images of Nov. 1990

FAP 24

 DELFT - DHI

RIVER SURVEY PROJECT
 Flood Plan Coordination Organization
 Commission of the European Communities

Survey Bulletin 112 : 27 October, 1994

Location 7 : Old Brahmaputra River, Mymensingh

Date : 23 Jan 1995

Init : mk/tr


Location map

page

1.1



Water-level : 7.32 m + PWD measured at the station indicated on page 1.1

FAP 24  DELFT - DHI		Survey Bulletin 112 : 27 October, 1994	
		Location 7 : Old Brahmaputra River, Mymensingh	
File : Y4AR0T03	Date : 23 Jan, 1995	Cross-sections and measured verticals Channel 1	page
	Init : mk/tr		1.2

Q2

Type of measurement	Method	No. of measurements in channel			
		1	2	3	4
Discharge	ADCP transect	-	-	-	-
	EMF transect	-	-	-	-
	Echo-Sounding	2	-	-	-
Vertical current profile	No. of verticals in channel	4	-	-	-
	ADCP	-	-	-	-
	S4 current meter	4	-	-	-
	Ott current meter	-	-	-	-
Vertical sediment profile	Pump bottle sampling	16	-	-	-
	Andreasen settling tube	-	-	-	-
	MEX turbidity meter	-	-	-	-
	Integrated bottle sampling	-	-	-	-
	Collapsible bag	-	-	-	-
Bed load	Dune tracking	-	-	-	-
	Helley-Smith sampler	-	-	-	-
	Delft Bottle	-	-	-	-
Bed material	US BM-54 bed sampler	-	-	-	-
	Van Veen bed sampler	-	-	-	-


Table 2.1: Survey programme as made

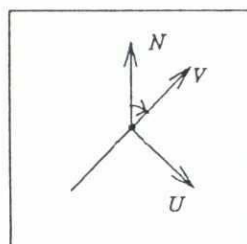
Channel	Width (m)	Area (m ²)	Stage h (m+PWD)	Discharge Q (m ³ /s)	Bed load transport Sb (kg/s)	Suspended Sediment transport Ss total (kg/s)
Channel 1	198	516	7.32	97	0	5.20

Table 2.2: Key figures

Gauge Location	Channel	Date	Water level (Daily average) (m + PWD)	Gauge
Mymensingh	Channel 1	27 Oct 94	7.32	FAP 24

Table 2.3: Water-levels

 FAP 24 DELFT - DHI		RIVER SURVEY PROJECT Flood Plan Coordination Organization Commission of the European Communities		Survey Bulletin 112 : 27 October, 1994	
Date : 23 Jan 1995		Location 7 : Old Brahmaputra River, Mymensingh		Survey programme as made and key figures	
File : Y4AR0T03		Init : mk / tr		page 2.1	

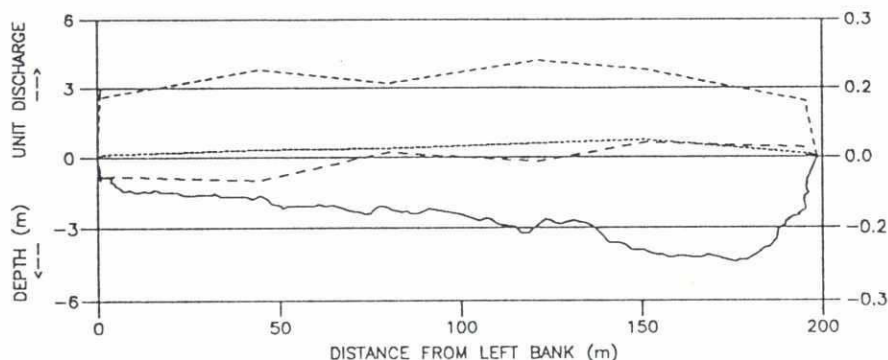


TRANSECT AZIMUTH = 44°

U - VELOCITY NORMAL TO TRANSECT (m/s)

V - VELOCITY PARALLEL TO TRANSECT (m/s)

N - MAGNETIC NORTH



FLOW

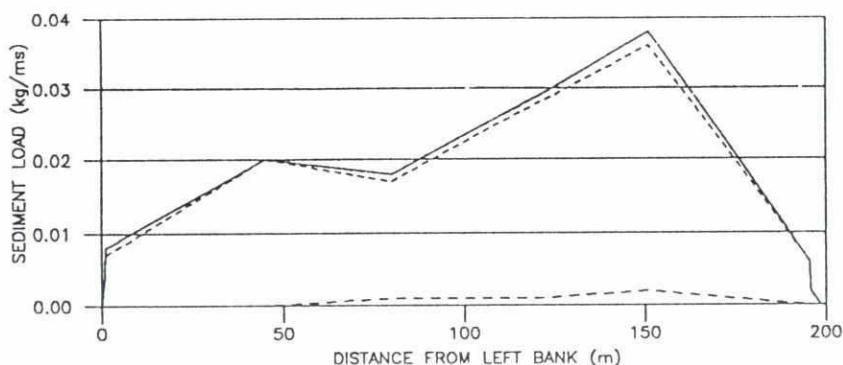
LEGEND :

— WATER DEPTH (m below STAGE)
 UNIT DISCHARGE (m³/s.m)
 --- U - (m/s)
 -.- V - (m/s)

STAGE = 7.32 (m+PWD)

A = 516 (m²)

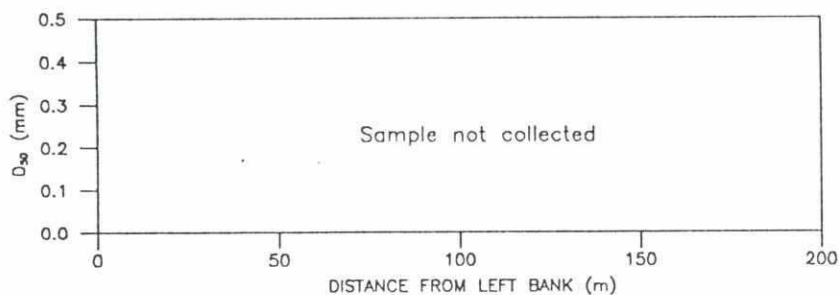
Q = 97 (m³/s)



SEDIMENT TRANSPORT

LEGEND :

— S_{TOTAL} 5.2 (kg/s)
 --- S_{WASH LOAD} 5.0 (kg/s)
 -.- S_{SUSP. BED} 0.2 (kg/s)
 S_{BED LOAD} 0 (kg/s)



GRAIN SIZE

LEGEND :

◇◇◇◇◇ D₅₀ SUSP. (mm)
 △△△△△ D₅₀ BED LOAD (mm)
 □□□□□ D₅₀ BED MAT. (mm)

FAP 24



DELFT - DHI

RIVER SURVEY PROJECT

Flood Plan Coordination Organization

Commission of the European Communities

Survey Bulletin 112 : 27 October, 1994

Location 7 : Old Brahmaputra River, Mymensingh

File : Y4AR0T03

Date : 23 Jan 1995

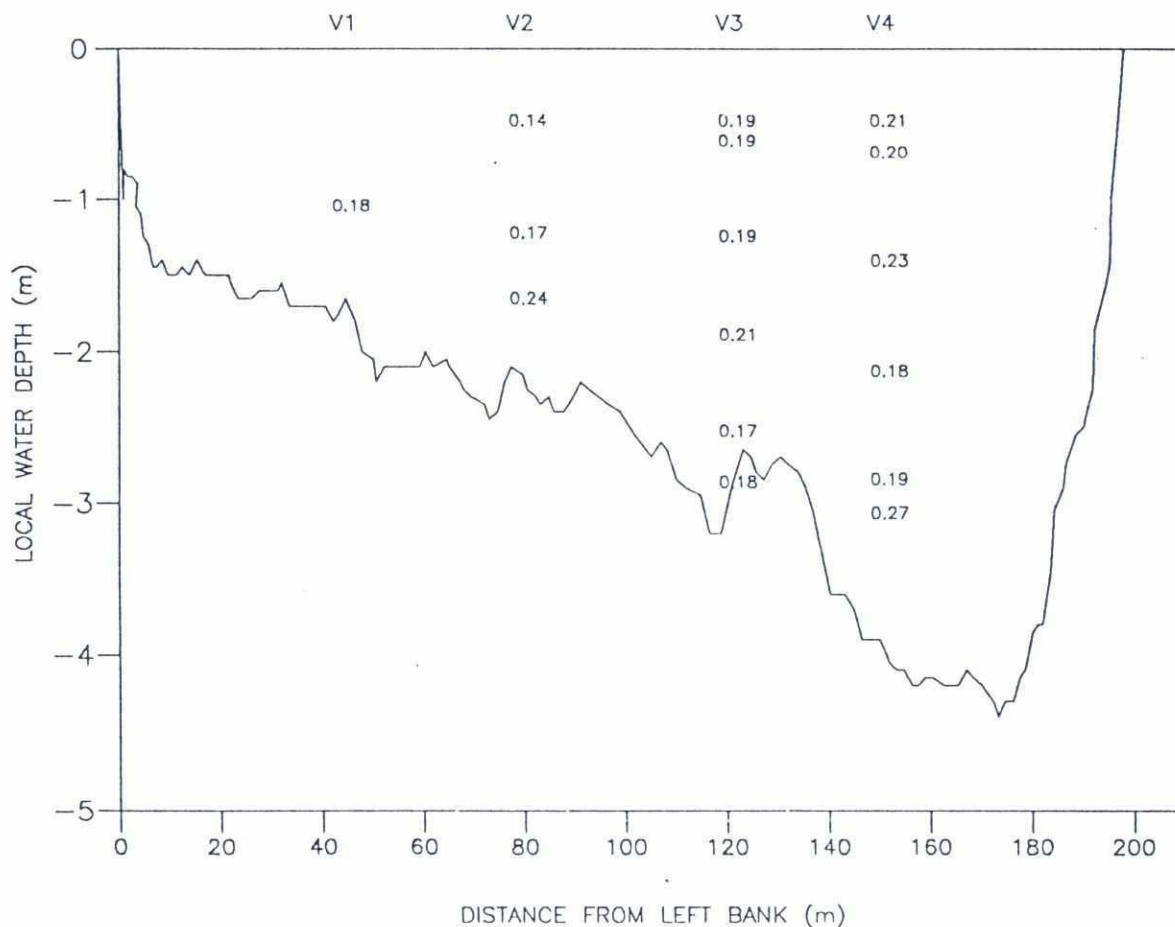
Init : mk / tr

Horizontal distribution of flow and sediments

Channel 1

page

3.1



Water level : 7.32 m + PWD measured at the station indicated on page 1.1

FAP 24



DELFT - DHI

RIVER SURVEY PROJECT

Flood Plan Coordination Organization

Commission of the European Communities

Survey Bulletin 112 : 27 October, 1994

Location 7 : Old Brahmaputra River, Mymensingh

File : Y4AR0T03

Date : 23 Jan 1995

Init : mk / tr

Cross-sectional distribution of flow velocity
Channel 1

page

4.1

Method	Channel	Time (YYMMDDHHMM-HHMM)	File name
Echo-sounding	1	9410271115-1118 9410271120-1123	Y4AR0T02 Y4AR0T03 *

Table 6.1: Echo-sounding

* : transect in PSD 24 data base and presented in Sections 3 and 4


Method	Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)	File name
Vertical current & turbidity profiles (ADCP/S4/MEX)	1	1 2 3 4	9410271439-1443 9410271414-1430 9410271322-1359 9410271236-1317	544890 544865 544834 544816	734576 734551 734521 734499	1.80 2.10 3.20 3.60	Y4AR0P01 * Y4AR0P02 * Y4AR0P03 * Y4AR0P04 *

Table 6.2: Vertical profiles


* ADCP and MEX not available

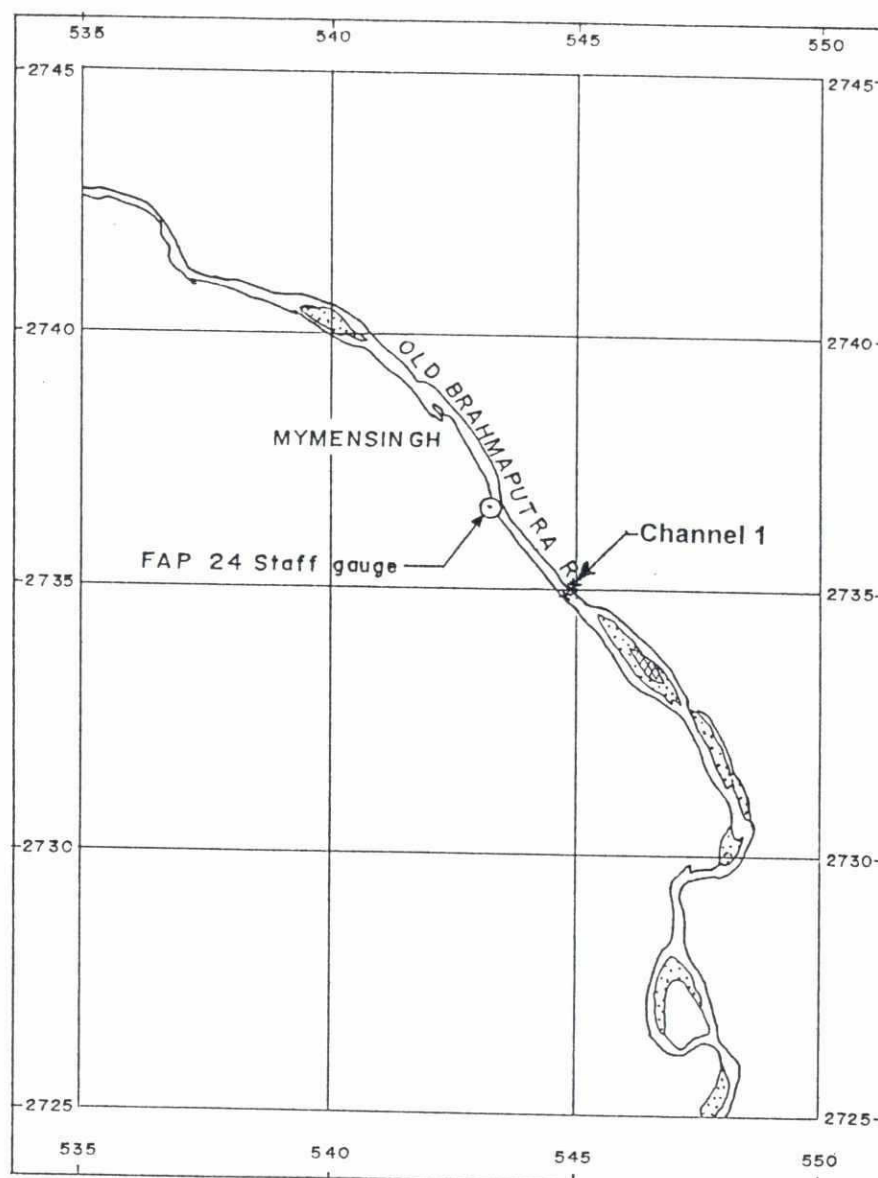
Method	Channel	Vertical	No. of samples	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)
Suspended sediments (pump bottle)	1	1 2 3 4	1 3 6 6	9410271439-1443 9410271414-1430 9410271322-1359 9410271236-1317	544890 544865 544834 544816	734576 734551 734521 734499	1.80 2.10 3.20 3.60

Table 6.3: Suspended sediment - point sampled

<div><div>FAP 24</div><div></div><div>DELFT - DHI</div></div> <div><div>RIVER SURVEY PROJECT</div><div>Flood Plan Coordination Organization</div><div>Commission of the European Communities</div></div>		Survey Bulletin 112 : 27 October, 1994	
		Location 7 : Old Brahmaputra River, Mymensingh	
	<div>Date : 23 Jan 1995</div> <div>Init : mk / tr</div>	Collected data and their storage (1)	<div>page</div> <div>6.1</div>

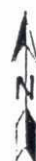
Types of Data	Channel	Format	Filename
ADCP/S4/EMF data	1	QUATTRO	Y4AR0T03 .ase
Echosounder data	1	QUATTRO	Y4AR0T03 .ech
Sediment transport data	1	QUATTRO	Y4AR0T03 .sed
Sus. sed. conc. analysis	1	QUATTRO	Y4AR0T03 .ssc
Transect plot data	1	QUATTRO	Y4AR0T03 .trs
Table 7.1 PSD 24 Database file description			

 FAP 24 DELFT - DHI		Survey Bulletin 112 : 27 October, 1994	
RIVER SURVEY PROJECT Flood Plan Coordination Organization Commission of the European Communities		Location 7 : Old Brahmaputra River, Mymensingh	
	Date : 23 Jan 1995	PSD 24 Database file description	page 7.1
	Init : mk / tr		



LEGEND:-

- ✕—✕ Cross section
- ▨ High land
- Unstable/low char
- FAP 24 Staff gauge



5000m 2500m 0

Map is based on satellite images of Nov. 1990

FAP 24



RIVER SURVEY PROJECT
Flood Plan Coordination Organization
Commission of the European Communities

Survey Bulletin 124 : 30 November, 1994

Location 7 : Old Brahmaputra River, Mymensingh

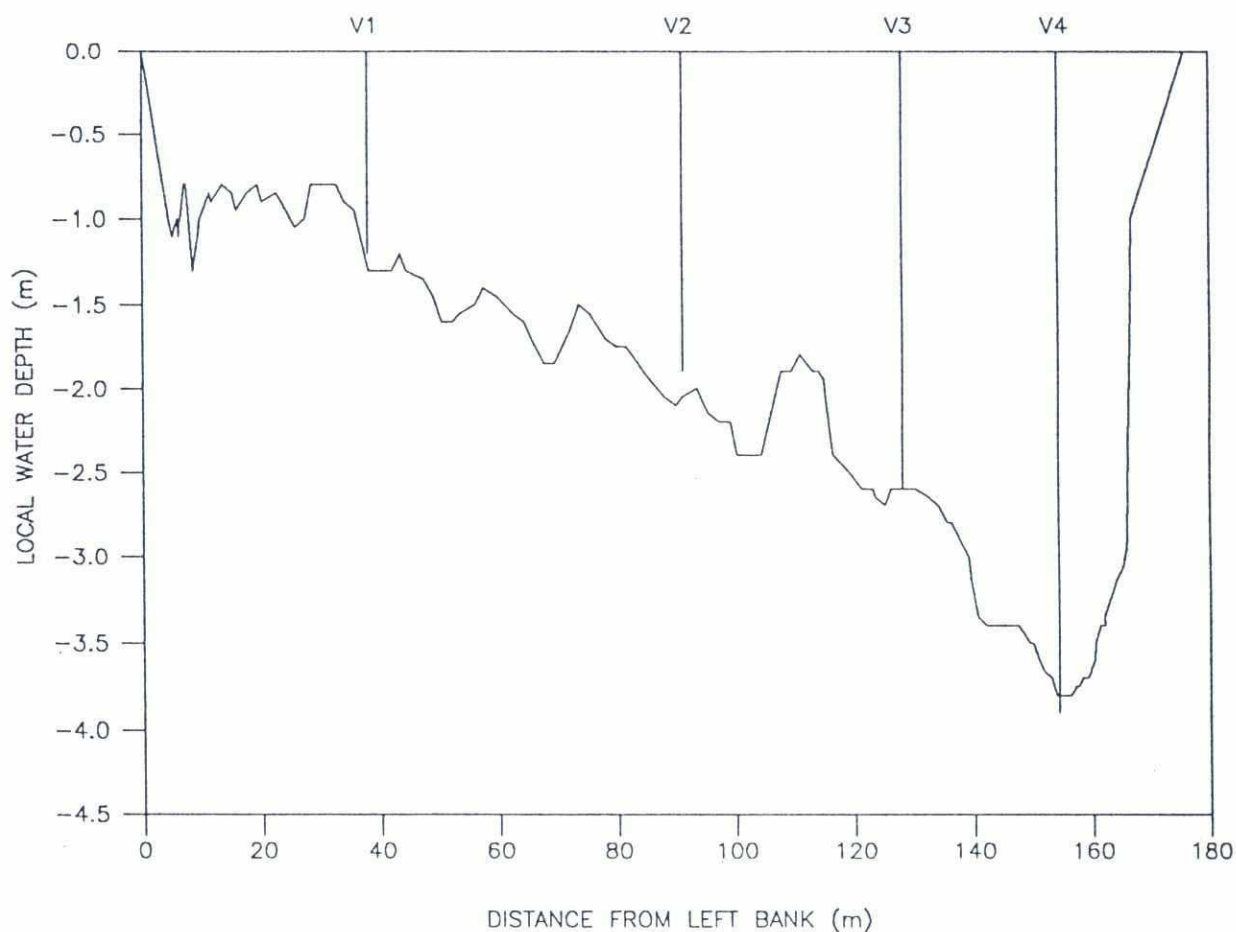
Date : 30 Feb 1995

Location map


page

Init : mk/tr

1.1



Water level : 6.54 m + PWD measured at the station indicated on page 1.1

FAP 24  DELFT - DHI		Survey Bulletin 124 : 30 November, 1994	
		Location 07 : Old Brahmaputra River, Mymensingh	
File : Y4BU9T02	Date : 05 Feb 1995	Cross-sections and measured verticals Channel 1	page
	Init : mk / tr		1.2

2

Type of measurement	Method	No. of measurements in channel			
		1	2	3	4
Discharge	ADCP transect	-	-	-	-
	EMF transect	-	-	-	-
	Echo-Sounding	2	-	-	-
Vertical current profile	No. of verticals in channel	4	-	-	-
	ADCP	-	-	-	-
	S4 current meter	4	-	-	-
	Ott current meter	-	-	-	-
Vertical sediment profile	Pump bottle sampling	11	-	-	-
	Andreasen settling tube	-	-	-	-
	MEX turbidity meter	-	-	-	-
	Integrated bottle sampling	-	-	-	-
	Collapsible bag	-	-	-	-
Bed load	Dune tracking	-	-	-	-
	Helley-Smith sampler	-	-	-	-
	Delft Bottle	-	-	-	-
Bed material	US BM-54 bed sampler	-	-	-	-
	Van Veen bed sampler	-	-	-	-


Table 2.1: Survey programme as made

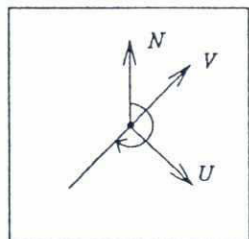
Channel	Width (m)	Area (m ²)	Stage h (m+PWD)	Discharge Q (m ³ /s)	Bed load transport Sb (kg/s)	Suspended Sedim transport Ss total (kg/s)
Channel 1	176	332	6.54	16	0	0.12

Table 2.2: Key figures

Gauge Location	Channel	Date	Water level (Daily average) (m + PWD)	Gauge
Mymensingh	Channel 1	30 Nov 94	6.54	FAP 24

Table 2.3: Water-levels

 <p>FAP 24 RIVER SURVEY PROJECT Flood Plan Coordination Organization Commission of the European Communities</p>		Survey Bulletin 124 : 30 November, 1994	
		Location 07 : Old Brahmaputra River, Mymensingh	
File : Y4BU9T02	Date : 05 Feb 1995	Survey programme as made and key figures	page
	Init : mk / tr		2.1

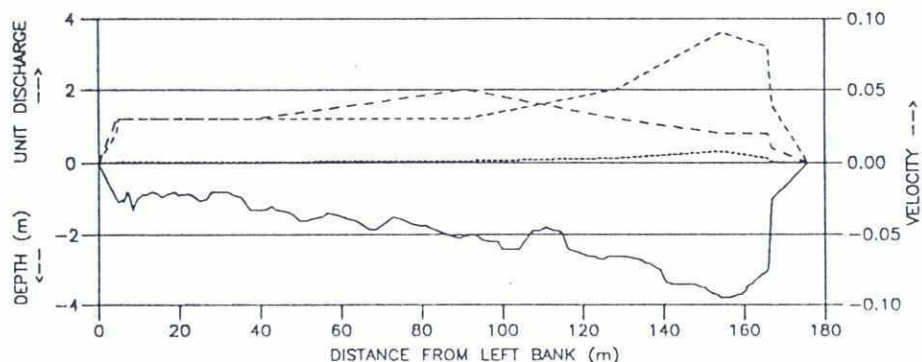


TRANSECT AZIMUTH = 224°

U - VELOCITY NORMAL TO TRANSECT (m/s)

V - VELOCITY PARALLEL TO TRANSECT (m/s)

N - MAGNETIC NORTH



FLOW

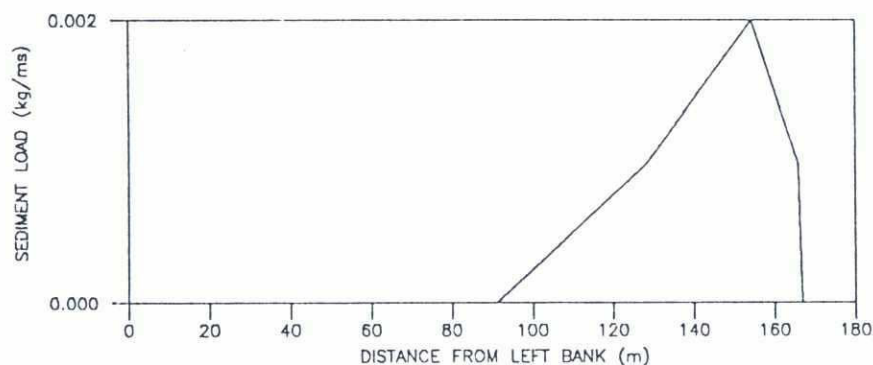
LEGEND :

— WATER DEPTH (m below STAGE)
 UNIT DISCHARGE (m³/s.m)
 --- U - (m/s)
 --- V - (m/s)

STAGE = 6.54 (m+PWD)

A = 332 (m²)

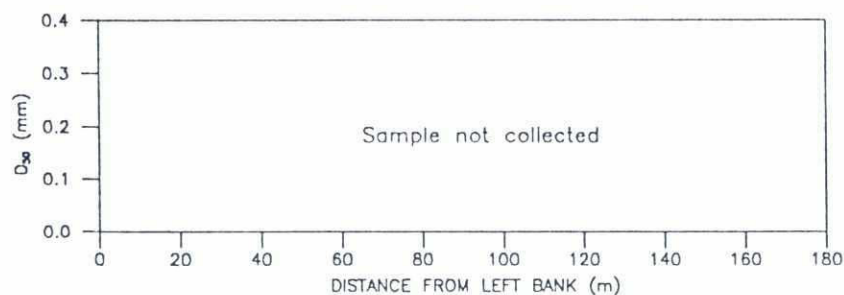
Q = 16 (m³/s)



SEDIMENT TRANSPORT

LEGEND :

— S_{TOTAL} 0.12 (kg/s)
 --- $S_{WASH\ LOAD}$ 0.09 (kg/s)
 --- $S_{SUSP.\ RED}$ 0.03 (kg/s)
 $S_{RED\ LOAD}$ 0 (kg/s)



GRAIN SIZE

LEGEND :

◇◇◇◇◇ $D_{50\ SUSP.}$ (mm)
 △△△△△ $D_{50\ BED\ LOAD}$ (mm)
 □□□□□ $D_{50\ BED\ MAT.}$ (mm)

FAP 24



DELFT - DHI

RIVER SURVEY PROJECT
 Flood Plan Coordination Organization

Commission of the European Communities

Survey Bulletin 124 : 30 November, 1994

Location 07 : Old Brahmaputra River, Mymensingh

File : Y4BU9T02

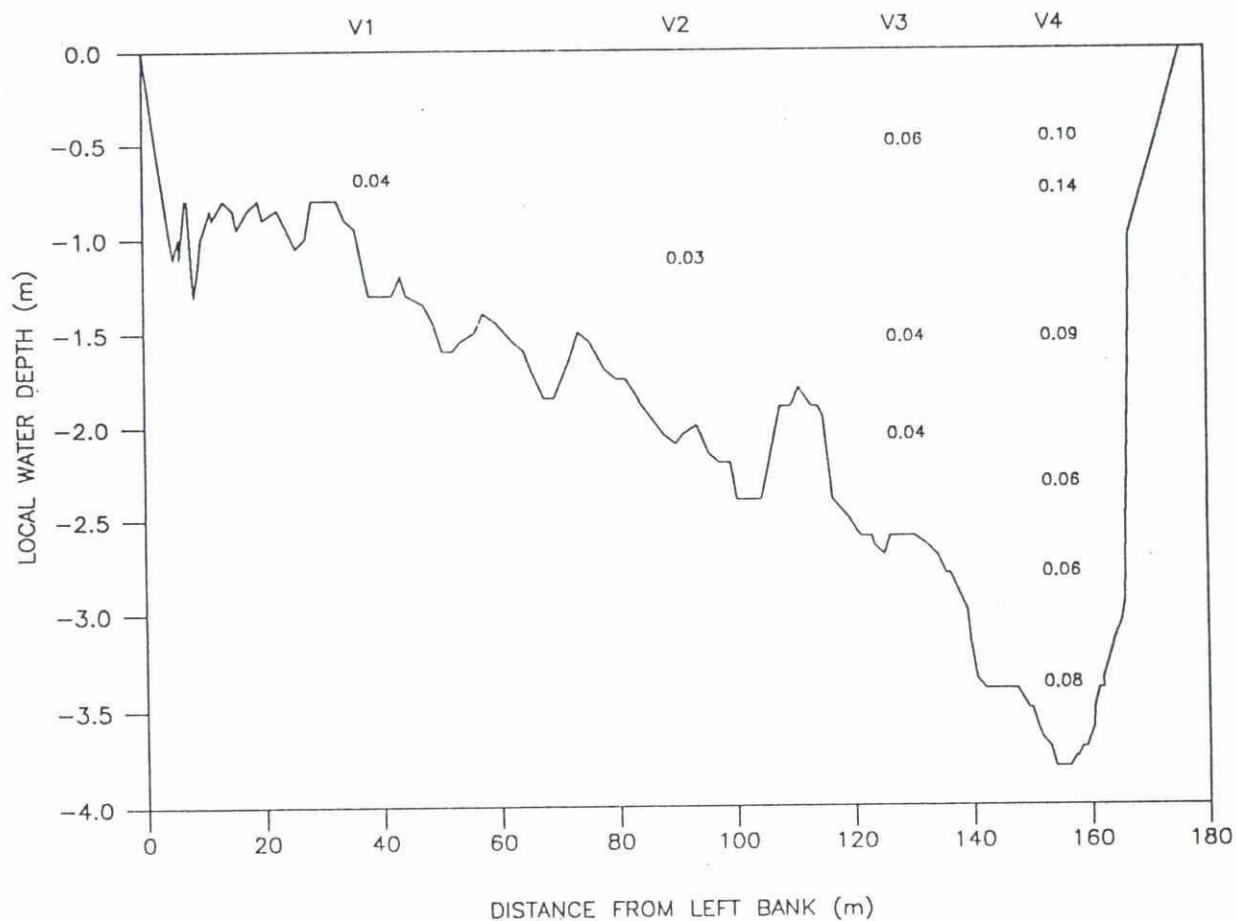
Data : 05 Feb 1995

Init : mk / tr


Horizontal distribution of flow and sediments
 Channel 1

page

3.1



Water level : 6.54 m + PWD measured at the station indicated on page 1.1

<div><div><div>FAP 24</div><div></div><div>DELFT - DHI</div></div><div><div>RIVER SURVEY PROJECT</div><div>Flood Plan Coordination Organization</div><div>Commission of the European Communities</div></div></div>		Survey Bulletin 124 : 30 November, 1994	
		Location 07 : Old Brahmaputra River, Mymensingh	
File : Y4BU9T02	Data : 05 Feb 1995	Cross-sectional distribution of flow velocity Channel 1	page
	Init : mk / tr		4.1

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Method	Channel	Time (YYMMDDHHMM-HHMM)	File name
Echo-sounding	1	9411301346-1349 9411301350-1353	Y4BU9T01 Y4BU9T02 *

Table 6.1: Echo-sounding

*: transect in PSD 24 data base and presented in Sections 3 and 4


Method	Channel	Vertical	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)	File name
Vertical current & turbidity profiles (ADCP/S4/MEX)	1	1	9411301540-1546	544880	734571	1.20	Y4BU9P01 *
		2	9411301529-1534	544845	734531	1.90	Y4BU9P02 *
		3	9411301503-1515	544815	734506	2.60	Y4BU9P03 *
		4	9411301422-1450	544802	734482	3.90	Y4BU9P04 *

Table 6.2: Vertical profiles

* ADCP and MEX not available

Method	Channel	Vertical	No. of samples	Time (YYMMDDHHMM-HHMM)	Easting (m)	Northing (m)	Depth (m)
Suspended sediments (pump bottle)	1	1	1	9411301540-1546	544880	734571	1.20
		2	1	9411301529-1534	544845	734531	1.90
		3	3	9411301503-1515	544815	734506	2.60
		4	6	9411301422-1450	544802	734482	3.90


Table 6.3: Suspended sediment - point sampled

<div><div>FAP 24</div><div><div>DELFT - DHI</div></div></div>		<div>RIVER SURVEY PROJECT</div> <div>Flood Plan Coordination Organization</div> <div>Commission of the European Communities</div>	<div>Survey Bulletin 124 : 30 November, 1994</div>	
		<div>Location 07 : Old Brahmaputra River, Mymensingh</div>		
	<div>Date : 05 Feb 1995</div>	<div>Collected data and their storage (1)</div>		<div>page</div> <div>6.1</div>
	<div>Init : mk / tr</div>			

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Types of Data	Channel	Format	Filename
ADCP/S4/EMF data	1	QUATTRO	Y4BU9T02 .ase
Echosounder data	1	QUATTRO	Y4BU9T02 .ech
Sediment transport data	1	QUATTRO	Y4BU9T02 .sed
Sus. sed. conc. analysis	1	QUATTRO	Y4BU9T02 .ssc
Transect plot data	1	QUATTRO	Y4BU9T02 .trs

Table 7.1 PSD 24 Database file description

<div><div><div>FAP 24</div><div></div><div>DELFT - DHI</div></div><div><div>RIVER SURVEY PROJECT</div><div>Flood Plan Coordination Organization</div><div>Commission of the European Communities</div></div></div>		Survey Bulletin 124 : 30 November, 1994	
		Location 07 : Old Brahmaputra River, Mymensingh	
	Date : 05 Feb 1995	PSD 24 Database file description	page
	Init : mk / tr		7.1

