### 添付資料 2-1

Minutes of Discussion of 5<sup>th</sup> and Final Joint Coordination Committee on 5<sup>th</sup> November 2009

### MINUTES OF DISCUSSIONS OF 5th AND FINAL JOINT COORDINATION COMMITTEE MEETING UNDER PHASE-II OF THE PROJECT FOR STRENGTHENING OF FLOOD RISK MANAGEMENT IN LAI NULLAH BASIN BETWEEN JAPAN INTERNATIONAL COOPERATION AGENCY

### AND AUTHORITIES CONCERNED OF THE GOVERNMENT OF ISLAMIC REPUBLIC OF PAKISTAN

As envisaged under item XI (3) of the signed Minutes of Meeting between Japan International Cooperation Agency (JICA) and Authorities Concerned of the Government of Islamic Republic of Pakistan dated 30 August 2007, the JCC in its meeting held on 05 November 2009 under the chairmanship of Mr. Asjad Imtiaz Ali, Member Technical of Federal Flood Commission discussed and approved with consensus the Draft Final Report (DF/R) of the Project for its better sustainability in future.

The following are the main points discussed in the above 5<sup>th</sup> & Final JCC meeting.

### 1. DF/R:

Expert Team explained contents of the DF/R in the 4th JCC meeting held on October 17 2009 and Pakistani side accepted the contents of the DF/R in principal subject to any comments by the stakeholders. The contents of DF/R include:

- Activities and Progress of each Output;
- Evaluation of each Output of Phase II; and
- Lessons Learnt and Recommendations for future.

### 2. Correction and Additional Recommendation of DF/R

Based on the comments on DF/R, the correction and recommendations will be reflected in the Final Report. The correction and recommendations include:

- Chapter 8.1.1. at the third sentence "UC" will be changed to "Nazim".
- Additional recommendations are as follows:
  - ① Regular maintenance and dredging of Lai Nullah is required (no later than end of April) before the monsoon season every year in coordination with concerned agencies, especially dredging works should be completed in advance to allow PMD to examine the Warning Code;
  - ② In order to monitor the sustainability of the Project activities, a Steering Committee is recommended to take care of issues and support Flood Risk Management in Lai Nullah on regular basis in future.

3 Institutional strengthening for Counterpart Agencies is required

- te

Imp wasa

\*

1

As a result of discussion all the related Pakistani authorities agreed to the matters refer to above.

重示英意

Mr. Hidenori Kumagai Director, Disaster Mana

Director, Disaster Management Division 1, Water Resources and Disaster Management Group, Global Environment Department Japan International Cooperation Agency

Mr. Shuji Kaku

Leader of Expert Team,

Japan International Cooperation Agency

Mr. Imdad Ullah Bosal

District Coordination Officer,

City District Government Rawalpindi

Islamic Republic of Pakistan

Mr. Ashiq Ali Ghori

Director, Regional Planning,

Capital Development Authority, Islamabad

Islamic Republic of Pakistan

Mr. Aadil Rafee Siddigui

Cantonment Executive Officer,

Rawalpindi Cantonment Board

Islamic Republic of Pakistan

Lt. Col. (Rtd) Islam-ul-Haq

Managing Director,

Water and Sanitation Agency, Rawalpindi

Islamic Republic of Pakistan

Islamabad, 5 November 2009

Mr. Asiad Imtaiz Al

Member Technical / Project Director

Federal Flood Commission

Ministry of Water and Power

Islamic Republic of Pakistan

Mr. Zafar Hasan Reza

Joint Secretary, (ADB/ Japan)

**Economic Affairs Division** 

Ministry of Economic Affair and Statistics

Islamic Republic of Pakistan

Dr. Qamar uz Zaman Chaudhary

Director General,

Pakistan Meteorological Department

Islamic Republic of Pakistap

Mr. Ahmed Kamal

Chief Engineer (Floods)

Federal Flood Commission

Ministry of Water and Power

Islamic Republic of Pakistan

Mr. Syed Nasir Ali Shah

Tehsil Municipal Officer,

Tehsil Municipal Administration Rawal

Town Rawalpindi

Islamic Republic of Pakistan

Dr. Aldur Rahman

District Emergency Officer

Punjab Emergency Service, Rescuel 122

Islamic Republic of Pakistan

### 添付資料 7-1 Evaluation Sheet of Output 1

**Evaluation Sheet** 

	81-VI	3	4	1	-		2	1		4	4	4	4	4	4	4
1	LI-VI	3	3	-	2		7	-		4	3	3	4	5	3	4
	9I-VI	4	4	-	-		2	-		4	3	n	4	5	n	4
l	SI-VI	2	7	-	-		1	1		3	4	3	3	4	3	4
	⊅I-ΛI	4	4	-	1		3	_		5	5	5	5	5	5	5
	EI-VI	4	4	1	3		3	_		5	5	5	5	5	2	2
L	17-12	3	3	-	-		3	1		4	4	4	4	4	4	4
tion	II-VI	4	4	1	1		3	_		5	5	5	5	2	5	5
Expert evaluation	01-VI	3	3	-	2		3	1		S	2	5	5	5	2	2
ert e	6- <b>N</b> I	4	ы	-	-		-	-		5	S	5	5	20	2	5
Exp	8-VI	3	3	-	-	5	-	1		4	4	4	4	4	4	4
	L-VI	2	2	1	2	3	1	1		3	3	3	3	3	3	3
	9-ΛΙ	4	3	-	2	3	3	1		5	5	5	5	4	4	4
	S-VI	3	n	1	-	4	n	1		4	4	4	4	4	4	4
	<i>ţ</i> -ΛΙ	3	n	-	-	3	2	-		5	S	4	3	3	3	5
	£-VI	-	7	-	-	т	-	-		3	3	3	3	3	3	3
	Z-VI	3	3	5	4	0	3	-		4	4	4	4	4	4	4
L	I-VI	n	n	4	n	m	-	-		4	4	4	4	4	4	4
	noitisoq	9	4	9	9	4	4	4								
	81-VI	3	4	1	9	,	3			4	4	4	4	4	4	4
	LI-VI	3	3	-	4		n			4	3	Э	4	5	Э	4
	91-VI	4	4	-	9		5			4	4	4	4	5	3	4
	SI-VI	3	3	-	9		9			n	4	З	3	4	3	4
	⊅I-VI	4	4	-	9		3			4	4	4	4	5	4	4
	EI-VI	4	4	-	3		n			5	4	4	4	5	4	4
	11-VI	3	æ	-	9		3			4	4	4	3	3	4	4
ntion	II-VI	4	4	-	9		n			5	4	4	4	4	4	4
value	01-VI	4	3	-	2		3			4	4	4	3	3	4	4
Self-evaluation	6-VI	4	æ	1	-		9			4	4	4	4	4	4	4
S	8-VI	5	3	1	9	5	9			4	4	4	4	3	4	4
	L-VI	4	æ	1	2	n	9	Top Co. 1		4	4	4	5	3	4	4
	9-AI	4	3	1	2	3	3	9		4	4	4	5	4	4	4
	γ-VI	4	3 3	9 9	9 9	4	3 3	9 9		4	4	4	4	4	4	4
	ε-VI	4	3 3	9 9	9 9	3 3	6 3	9 9		4 4	4 4	4 4	3	4	3 4	1 4
	7-AI	4	3	5	4	5	3 6	9		4 4	4 4	4 4	4 4	4 4	3 3	4 4
	I-VI	3	3	4	3	3	9	9		3	4 4	4 4	4 4	4 4	3	4 4
	noitisoq	9	4	9	9	4	4	4	1	4	4	5 4	5	2	4	4 4
	4	200		23												
Before Training	Name	Mr. Shahzad Sultan	Mr. Shahid Mahamood	Mr. Zaheer A. Babar	Mr. Aleem ul Hassam	Mr. Aamir Shehzad Warsi	Mr. Imran Aslam	Mr. Farhan Khaliq	raining	Mr. Shahzad Sultan	Mr. Shahid Mahamood	Mr. Zaheer A. Babar	Mr. Aleem ul Hassan	Mr. Aamir Shehzad Warsi	Mr. Imran Aslam	Mr. Farhan Khaliq
Before		5_2	9_5	10_1	10_2	10_4	11_1	11_5	After Training	5_2	9_5	10_1	10_2	10_4	11.1	11_5

Position: 5; Management. 4; Technical 3; Hydro/Hydraulic Engr. 2; Telecom/Computer Engr. 6; Others

Remark: Yes; mark to 5, No; mark to 1, x; mark to 6

### 添付資料 7-2 Examination on Hydrology

### **Examination on Hydrology**

			Name	
Lai N	Nullah Flood Forecasti	ing and Warning S	System (FFWS)	
Q1:	FFWS has some rainfa	all station. Answer	all the station's nar	ne.
A1:				
Q2:	Answer all the name of	f water level gaugin	ng station along La	i Nullah.
A2:				
Rain	fall Analysis			
Q3:	Explain differentiate b	etween 60-minutes	rainfall and 1-hour	rainfall
A3:		•		
Q4:	How do you compute	the probable rainfal	l of 100-year return	n period?
	Explain the procedure			
A4:	1.			
	2.			
	3.			
	4.			
	5.			
Q5:	Calculate 5, 10, 50, 10	0-vear rainfall from	ı Rainfall Data She	et
A5:	Caroniato 5, 10, 50, 10	o year rainium mom	Ramian Data Bile	Ot .
115.		Probable De	ninfall (mm)	
	5 2222			100
	5-year	10-year	50-year	100-year
			•	

### Discharge Measurement

Q6: A6:	Answer the objective of discharge measurement.
Q7:	How do you convert the water level into river discharge?
A7:	
Q8:	How do you make a H-Q rating curve? Explain the procedure.
A8:	1.
	2.
	3.
	4.
	5.
	6.
Q9:	Fill in the Field Notebook and Compute measured discharge, flow area and average velocity in accordance with following condition:
<cor< td=""><td>adition&gt;</td></cor<>	adition>
. 🗸	Discharge measurement at Gawal mandi water level gauging station on January 29, 2009
✓	It was fine and calm day
✓	Water level was 491.50 EL.m at 11:51 when discharge measurement starts
✓	(3) measurement lines were taken (L1, L2 and L3)
✓	Surface floats were used for discharge measurement
✓	First float was dropped at L1 at 11:55 and floating time is 32.6 second
✓	Second one was dropped at L2 at 12:03 and floating time is 20.4 second
✓	The last one was dropped at L3 at 12:10 and floating time is 40.2 second
✓	And the water level at the end of discharge measurement was 491.90m at 12:13
✓	Use the following sheets for calculation:
	"DISCHARGE MEASUREMENT NOTES FOR FLOATING METHOD"
	"CROSS-SECTIONAL AREA CALCULATION"
	Gawal mandi Cross-section

A9:

Discharge	Total Area	Mean Velocity

### Runoff Model

Q10:	How does the "Runoff" change when "Curve Number" increases?
A10:	:Start of flood
	:Peak
ı	:Duration
	:Runoff Volume
	How does the "Runoff" change when "Initial AMC" shifts 2 to 3? Start of flood
	:Peak
	:Duration
	:Runoff Volume
Q12:	How does the "Runoff" change when "Hydraulic Length" becomes long? (the catchment area is same)
A12:	Start of flood
	:Peak
	:Duration
	:Runoff Volume

## Rainfall Data Sheet

Extract Maximum Daily Rainfall each year

Arrange the series of data

Compute plotting position by Cunnan Formula

Maximum Daily Rainfall

Plotting Position

Maximum Daily Rainfall	122	93	105
Year	9861	1861	8861
No.	1	2	3

Maximum	Daily	Rainfall	23	34	41
	No.		1	2	٤

Maximum	Daily	Rainfall	23	34	41	47	48	54	64	99	70	22	
	No.		1	2	3	4	5	9	7	8	6	10	

6.9 11.2 15.5 19.8

2.6

 2 2 2 2

24.1 28.4 32.8 37.1

70	75	66	<i>L</i> 6	66	101	105	110	110	118	122	123	127	140	163
6	10	11	12	13	14	15	16	17	18	19	20	21	22	23

2003 

1999

> 2007

2 2 2

62.9

75.9 80.2 84.5 88.8 93.1 97.4

127 140

71.6

_		`
•	1	٢
	l	1
	۲	_

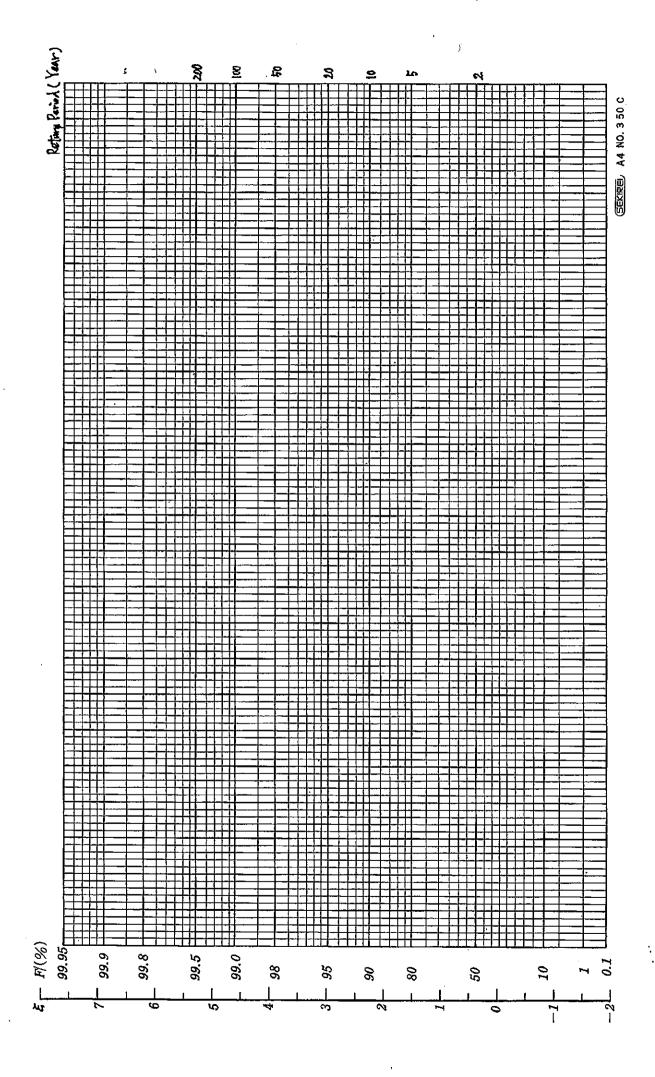
1993 1996

 93 97

41.4 50.0 54.3 58.6

75	93	6	66	101	105	110	110	118	122	123	127	140	163
10	11	12	13	14	15	16	17	18	19	20	21	22	23

per
Da.
q
Gra
the (
lon
osition
₩.
and Plotting
Ŧ
data
П
ij
lot Rainfall
Ä
Plc
4



# DISCHARGE MEASUREMENT NOTES FOR FLOATING METHOD

River	River Name						Sta	Station Name				
Measu	Measurement No.						Rec	Recorder				
	year				Start		- •		Weather	Wind Direction	tion	Wind Force
Date	month		_	Time	End		••					
	day				Ave.	ı	••					
`×ّ	Water Level	Discharge		No. of Line	ine				Surface	Mean Velocity	city	Flow Distance
9	(standard)	(m <sub>2</sub> /s)							Slope	(s/ш)		(m)
									1/			
- /v\	Reference Staff		1st Staff Gauge 2nd Staff Gauge	ge 2no	Staff (	Sauge			Difference	Distance	Ф	Surface
, , . . L	Gauge (m)	(m)	(m)		(m)				(m)	(m)		Slope
Start												
End												
Ave.												

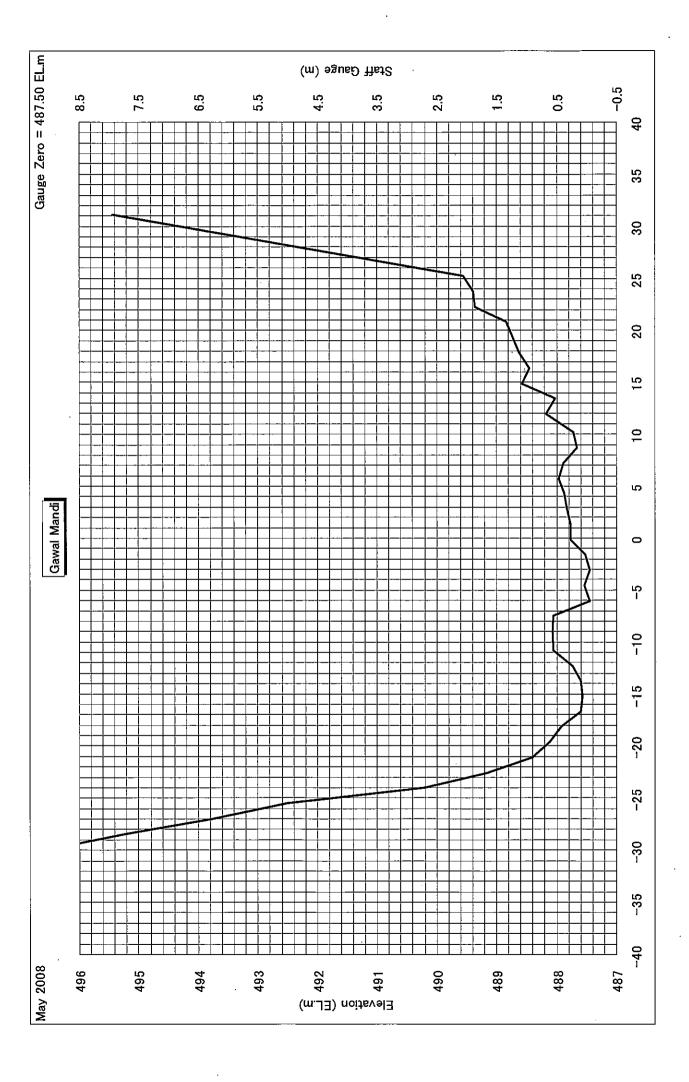
Sectional	Discharge (m³/s)					_	
al Area	Average (m <sup>2</sup> )		-				
Partial Cross-sectional Area	2nd (m²)	•					
Parti	1st (m²)						
Corrected	Coef. Velocity (m/s)				•		
	Coef.						
Velocity of	Float Cc (m/s)						
	(sec)						
200	Time	 •••	 ,	••		 	
ting	Free Board						
Floating	Туре						
	Š Š				•		

Note: Elevation of Staff gauge zero

: 493.50 EL.m : 487.50 EL.m Kattarian Bridge Gawal mandi Bridge

## CROSS-SECTIONAL AREA CALCULATION

River Name					Ototion Nome				
Measurement No	N N	!			Station Name		• 170		
Negon cilicili	140.				Date				
			_						
				Date of	Date of Cross-sectional Survey	Survey			
		1st Cross-section	_			-2	2nd Cross-section		
Wate	Water Level	start					start	:	
	(E)	end			vvalei (r	water Level	end	:	-
		Average				(II)	Average		
No.	Water Depth (m)	Partial Width (m)	Partial Area (m²)	Total Area (m²)	No	Water Depth (m)	Δ.	Partial Area (m²)	Total Area (m²)
				·					İ
									ŀ
				,			_		
								i	



Examination Score of Each Trainee

_					_		_		•					_
	Answer	4	4	4	6	8	2	3	10	6	8	∞	8	97
	Process					01				10				В
	Answer	4	4	4	6	9	5	3	10	6	8	8	8	92
9	Process					10				4				В
	Answer	4	4	4	6	8	5	3	10	6	9	∞	9	96
4,	Process					10				10				В
	Answer	4	4	4	. 7	2	0	3	0	6	8	8	8	72
þ	Process					10				10			<b>基金</b> 条件	Э
	Answer	4	4	4	6	4	5	3	10	0	9	8	9	81
3	Process					10				8				В
2	Answer	4	4	4	6	8	5	3	10	3	2	2	2	92
,	Process					10				10				С
	Answer	3	4	4	6	8	3	3	10	9	9	9	4	80
[ ]	Process					10				4				B
location	Answer	4	4	4	6	8	5	3	10	6	8	8	8	100
Point Allocation	Process					10				10				
Onestion	Yacstron.	QI	Q2	63	40	Q5	9Ò	۷7	80	60	010	Q11	Q12	

### 添付資料 7-3

Evaluation of Flood Forecasting Works with MIKE 11 Simulations

### Name of Trainee: 1

Items	Evaluation	Remarks
(1) Understanding of Outline of Flood Forecasting		
- Understanding of required data for Flood Forecasting	A	And the state of t
- Understanding of the meaning of the works	C→A	
(2) Flood Forecasting Works by MIKE I.1		
- Setting of Rainfall data (Simulation start time)	C→B	
- Setting of Rainfall data (Simulation end time)	A	
- Setting of Simulation Time	A	
- Running the Simulation	Α	
- Comparison of Simulated water level and Observed water level	E→B	
- Adjustment of Parameter for Flood Forecasting	D→B	
- Obtaining correct forecasted result	Α	
- Explanation of the Result	Α	
- Restoration of Parameter setting	A	
(3) Understanding of Flood Warning Code:		21
- Pre-Alert	A	The second secon
- Alert	A	
- Evacuation	С	· · · · · · · · · · · · · · · · · · ·
- Issuance of "Evacuation" at the right time	В	
Total Time	D→C	

A: Excellent, B: Good, C: Fair, D: Poor, E: Absence

### **Evaluation of Flood Forecasting Works with MIKE11 Simulation**

### Name of Trainee: 2

Items	Evaluation	Remarks
(1) Understanding of Outline of Flood Forecasting	13valuation	Nemai Ks
- Understanding of required data for Flood Forecasting	A	MARKET CONTRACTOR OF THE PROPERTY OF THE PROPE
- Understanding of the meaning of the works	A	
(2) Flood Rorecasting Works by MIKE 11		
- Setting of Rainfall data (Simulation start time)	C→B	West of the Control o
- Setting of Rainfall data (Simulation end time)	C→B	
- Setting of Simulation Time	A	
- Running the Simulation	A	
- Comparison of Simulated water level and Observed water level	В	
- Adjustment of Parameter for Flood Forecasting	В	
- Obtaining correct forecasted result	A	
- Explanation of the Result	A	, , , , , , , , , , , , , , , , , , , ,
- Restoration of Parameter setting	A	
(3) Understanding of Flood Warning Code		
- Pre-Alert	A	
- Alert	В	
- Evacuation	В	
- Issuance of "Evacuation" at the right time	A	
Total Time	C→B	

### Name of Trainee: 3

Items	Evaluation	Remarks
(1) Understanding of Outline of Flood Forecasting		
- Understanding of required data for Flood Forecasting	A	
- Understanding of the meaning of the works	A	
(2))Elood Forecasting Works by MIKE 1		The Control of the Co
- Setting of Rainfall data (Simulation start time)	A	
- Setting of Rainfall data (Simulation end time)	A	
- Setting of Simulation Time	Α	
- Running the Simulation	Α	
- Comparison of Simulated water level and Observed water level	Α	
- Adjustment of Parameter for Flood Forecasting	C→A	
- Obtaining correct forecasted result	A	
- Explanation of the Result	Α	
- Restoration of Parameter setting	В	
(6) Understanding of Flood Warning Code		
- Pre-Alert	Α	
- Alert	Α	
- Evacuation	Α	
- Issuance of "Evacuation" at the right time	Α	·
Total Time	B→A	

A: Excellent, B: Good, C: Fair, D: Poor, E: Absence

### **Evaluation of Flood Forecasting Works with MIKE11 Simulation**

### Name of Trainee: 4

Items	Evaluation	Downsules
(1) Understanding of Outline of Flood Forecasting	<u> Evaluation</u>	Remarks
- Understanding of required data for Flood Forecasting	A	And the second s
- Understanding of the meaning of the works	A A	
	L A	
- Setting of Rainfall data (Simulation start time)	B	
- Setting of Rainfall data (Simulation end time)	A A	
- Setting of Simulation Time		
- Running the Simulation	A	
- Comparison of Simulated water level and Observed water level	A	
- Adjustment of Parameter for Flood Forecasting	C→B	
	C→B	
- Obtaining correct forecasted result	<u>A</u>	
- Explanation of the Result	A	
- Restoration of Parameter setting	C	
(3) Understanding of Flood Warning Code	Sec. 10 10 10 10	Arrenda de la companya della companya de la companya de la companya della company
- Pre-Alert	A	
- Alert	Α	
- Evacuation	A	
- Issuance of "Evacuation" at the right time	A	
Total Time	C→B	

### Name of Trainee: 5

Items	Evaluation	Remarks
(1) Understanding of Outline of Flood Forecasting		
- Understanding of required data for Flood Forecasting	Α	
- Understanding of the meaning of the works	A	
(2) Flood Forecasting Works by MIKE II		
- Setting of Rainfall data (Simulation start time)	C→A	
- Setting of Rainfall data (Simulation end time)	C→A	
- Setting of Simulation Time	A	
- Running the Simulation	A	•
- Comparison of Simulated water level and Observed water level	C→A	
- Adjustment of Parameter for Flood Forecasting	A	
- Obtaining correct forecasted result	A	
- Explanation of the Result	A	
- Restoration of Parameter setting	A	
(3) Understanding of Flood Warning Code	wilden in de	
- Pre-Alert	A	
- Alert	A	
- Evacuation	A	,
- Issuance of "Evacuation" at the right time	В	
Total Time	B→A	

A: Excellent, B: Good, C: Fair, D: Poor, E: Absence

### **Evaluation of Flood Forecasting Works with MIKE11 Simulation**

Name of Trainee: 6

Items	Evaluation	Remarks
(1) Understanding of Outline of Flood Rorecasting		
- Understanding of required data for Flood Forecasting	A	
- Understanding of the meaning of the works	Α	<del></del>
(2) Flood Forecasting Works by MIKE 11		
- Setting of Rainfall data (Simulation start time)	C→B	_
- Setting of Rainfall data (Simulation end time)	A	
- Setting of Simulation Time	A	
- Running the Simulation	A	
- Comparison of Simulated water level and Observed water level	C→B	
- Adjustment of Parameter for Flood Forecasting	C→B	
- Obtaining correct forecasted result	A	
- Explanation of the Result	A	
- Restoration of Parameter setting	A	
(3) Understanding of Flood Warning Code		
- Pre-Alert	, A	
- Alert	A	
- Evacuation	В	
- Issuance of "Evacuation" at the right time	A	
Total Time	C	

### Name of Trainee: 7

` Items	Evaluation	Remarks
(1) Understanding of Outline of Flood Forecasting		
- Understanding of required data for Flood Forecasting	· A	erg est and could be a could be a court opening the filter of the characteristics.
- Understanding of the meaning of the works	A	
(2) Flood Forecasting Works by MIKELIA		
- Setting of Rainfall data (Simulation start time)	C→B	and the second s
- Setting of Rainfall data (Simulation end time)	A	
- Setting of Simulation Time	A	
- Running the Simulation	A	
- Comparison of Simulated water level and Observed water level	C→B	
- Adjustment of Parameter for Flood Forecasting	C→B	
- Obtaining correct forecasted result	C→A	
- Explanation of the Result	A	
- Restoration of Parameter setting	A	
(3) Understanding of Flood Warning Code		A STATE OF THE STA
- Pre-Alert	A	and the second s
- Alert	A	
- Evacuation	В	THE THE PERSON OF THE PERSON O
- Issuance of "Evacuation" at the right time	A	
Total Time	D→C	

### 添付資料 7-4 Evaluation of MIKE 11 Skills

### Name of Trainee: 1

Items	Evaluatio	Remarks
(1) Understanding of Outline of Elood Simulation Software		
- Understanding of Structure of MIKE11	A	and the second control of the second control
- Understanding of required file type of MIKE11	A	
(2): Usage of Simulation Editor		
- "Models", Choise of proper models	A	THE CONTRACT OF THE PROPERTY O
- "Input", Connection of each required files	A	
- "Simulation", Set of proper time step	A	*
- "Simulation", Set of proper period	A	
- "Simulation", Set of proper condition	A	
- "Results", Set of proper unit of results	A	
- "Start", He/She can find defective file when he can't start simulation	A	
(3)) Usage of Network Editor		
- Open and set of Network Editor	A	
- Plot of each point	A	
- Connection each point as a river branch	B	
- Connection between each branch	A	***************************************
- Showing of Tabular View	A	
- "Tabular View", usage of points' data (XY-cor, Chainage, Data Type)	A	
- "Tabular View", usage of branches' data (Topo ID, Connection)	A	
- Operation of Plane Figure	A	
(4) Usagerof Cross-section Editor.		
- Input Cross-section data	A	
- Put Mark	A	
- Understanding of Resitance Numbers	C	
- Understanding of Processed Data	B	
- Operation of Plane Figure	A	
- Connection with Network Editor	B	THE RESIDENCE OF THE PARTY OF T
- Understanding of the relationship between Network and Cross-section	A	
(S)) Usage of Boundary data Editor	A	The same of the sa
- Understanding of required boundary data		
- Setting of boundary data	B C	
- Understanding of data format (Time Seriese and Constant)	C	
- Connection with Network Editor	В В	
- Making Time-series Data	ļ. —	
(6) Usage of Runoff Model (RR Parameters)	D	
- "Catchments", Insert Catchment and Choice of proper model type		
- "UHM", set of proper model parameters	C	
- "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial	A	
- "Timeseries", Setting of Rainfall data	C B	
- "Timeseries", Understanding of Weighted timeseries setting		
- Connection with Network Editor	A	
(M) Usage of 1810 Parameter Editor	В	
Independent of Clobal Values and Independent		
- Understanding of Global Values and Local Values	<u>C</u>	
- Setting of Initial condition	<u>A</u>	
- Setting of Bed Resistance	<u>B</u>	
(8) Usagelof/MIKE/VIEW		
- Showing of Longitudal profile of each river	A	
- Showing of Cross-section and water level simulation result	D	
- Showing of Hydrograph	В	
- Taking required data from MIKE VIEW	A	

### Name of Trainee: 2

(b) Understanding of Structure of MIKE11 A  - Understanding of required file type of MIKE11 B  - Understanding of required file type of MIKE11 B  - "Models", Choise of proper models - "Models", Choise of proper models - "Simulation", Set of proper time step - "Simulation", Set of proper period - "Simulation", Set of proper period - "Simulation", Set of proper unit of results - "Simulation", Set of proper unit of results - "Start", He/She can find defective file when he can't start simulation B  - "Results", Set of proper unit of results - "Start", He/She can find defective file when he can't start simulation B  - "Plot of each point - Plot of each point as a river branch - Connection each point as a river branch - Connection between each branch - Showing of Tabular View - "Tabular View", usage of points' data (XY-cor, Chainage, Data Type) - "Tabular View", usage of points' data (Topo ID, Connection) - Operation of Plane Figure - B  - (PMISage of Casses Section data - Put Mark - Understanding of Resitance Numbers - Understanding of Processed Data - Operation of Plane Figure - Operation of White Pigure - Op	Items	Evaluatio	Remarks
Understanding of Structure of MIKE11		TO EST Y	ivinal as
Understanding of required file type of MIKE11   B		A	
Carrier   Carr		· · · · · · · · · · · · · · · · · · ·	
- "Models", Choise of proper models - "Input", Connection of cach required files - "Simulation", Set of proper time step - "Simulation", Set of proper time step - "Simulation", Set of proper period - "Simulation", Set of proper period - "Simulation", Set of proper unit of results - "Start", He/She can find defective file when he can't start simulation - "Start", He/She can find defective file when he can't start simulation - "Open and set of Network Editor - Plot of each point - A - Connection each point as a river branch - Plot of each point - Connection each point as a river branch - Connection between each branch - Showing of Tabular View - "Tabular View", usage of points' data (XY-cor, Chainage, Data Type) - "Tabular View", usage of branches' data (Topo ID, Connection) - A - "Deration of Plane Figure - B - "Usage of Coss section Edition - Input Cross-section data - Put Mark - B - Understanding of Resitance Numbers - C - Understanding of Processed Data - Operation of Plane Figure - Connection with Network Editor - Understanding of fre relationship between Network and Cross-section - Understanding of fre relationship between Network and Cross-section - Understanding of fre relationship between Network and Cross-section - Understanding of frequired boundary data - Setting of boundary data - Understanding of frequired boundary data - Connection with Network Editor - Making Time-series Data - "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial - "Timeseries", Setting of Rainfall data - "Timeseries", Understanding of Weighted timeseries setting - Connection with Network Editor - Understanding of Global Values and Local Values - Setting of Initial condition - Settin		_	<u>l</u>
- "Input", Connection of each required files - "Simulation", Set of proper time step - "Simulation", Set of proper period - A - "Simulation", Set of proper condition - "Results", Set of proper condition - "Results", Set of proper condition - "Results", Set of proper unit of results - "Start", He/She can find defective file when he can't start simulation - "Start", He/She can find defective file when he can't start simulation - "Start", He/She can find defective file when he can't start simulation - "Start", He/She can find defective file when he can't start simulation - "Start", He/She can find defective file when he can't start simulation - "Start", He/She can find defective file when he can't start simulation - "Babage Start S		ALL COMPLETE SELECTION OF THE SELECTION	
- "Simulation", Set of proper time step - "Simulation", Set of proper period - "Simulation", Set of proper condition - "Results", Set of proper condition - "Results", Set of proper unit of results - "Start", He/She can find defective file when he can't start simulation B (B) Bageon Nework Editor - Plot of each point - Open and set of Network Editor - Plot of each point - Connection each point as a river branch - Connection each point as a river branch - Connection between each branch - Showing of Tabular View - "I'abular View", usage of points' data (XY-cor, Chainage, Data Type) - "Tabular View", usage of pranches' data (Topo ID, Connection) - A - Operation of Plane Figure - B - ("Olusiage for Erross-section data - Put Mark - Understanding of Resitance Numbers - Understanding of Processed Data - Operation of Plane Figure - Connection with Network Editor - Understanding of the relationship between Network and Cross-section - Understanding of required boundary data - Setting of Time-series Data - ("Olusiage of Rumoin/Model/McRaparameters) - "Catchments", Insert Catchment and Choice of proper model type - "UHM", Set of proper model parameters - "UHM", Set of proper model para			
- "Simulation", Set of proper period - "Simulation", Set of proper condition - "Results", Set of proper condition - "Results", Set of proper unit of results - "C - "Results", Set of proper unit of results - "C - "Start", He/Shc can find defective file when he can't start simulation B ((a))\(\text{\t			
"Simulation", Set of proper condition  "Results", Set of proper unit of results  "Start", He/She can find defective file when he can't start simulation  (a) Mesage of Network Editor  - Open and set of Network Editor  - Plot of each point  - Connection each point as a river branch  - Connection between each branch  - Showing of Tabular View  "Tabular View", usage of points' data (XY-cor, Chainage, Data Type)  "Tabular View", usage of branches' data (Topo ID, Connection)  - Operation of Plane Figure  (a) Mesage of Mesage o			
- "Results", Set of proper unit of results - "Start", He/She can find defective file when he can't start simulation (B) (B) (Sasce) Network Editor - Piot of each point - Piot of each point - A - Connection each point as a river branch - Connection between each branch - Connection between each branch - Showing of Tabular View - "Tabular View", usage of points' data (XY-cor, Chainage, Data Type) - "Tabular View", usage of branches' data (Topo ID, Connection) - Operation of Plane Figure - Showing of Gosses section Editor - Input Cross-section data - Put Mark - Put Mark - Understanding of Resitance Numbers - Understanding of Processed Data - Operation of Plane Figure - Connection with Network Editor - Understanding of the relationship between Network and Cross-section - (S) (S) (S) (S) (S) (S) - Understanding of required boundary data - Setting of boundary data - Setting of boundary data - Setting of Tourised B - Connection with Network Editor - Making Time-series Data (B) (S) (S) (S) (S) (S) - "Catchments", Insert Catchment and Choice of proper model type - "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial - "Timeseries", Setting of Rainfall data - Setting of Initial condition - Setting of Initial condition - Setting of Bed Resistance - A - Showing of Longitudal profile of each river - Showing of Longitudal profile of each river			
- "Start"   He/She can find defective file when he can't start simulation			
Connection with Network Editor   A   Put Mark   B   Connection of Plane Figure   A   Connection of Plane Figure   B   Connection of Plane Figure   B   Connection of Plane Figure   B   Connection of Plane Figure   A   Connection of Plane Figure			
- Open and set of Network Editor	Share, Troone can mid detective the when he can't shart simulation	L D	
Pilot of each point Connection each point as a river branch Connection between each point as a river branch Showing of Tabular View A Showing of Tabular View A Tabular View", usage of points' data (XY-cor, Chainage, Data Type) B "Tabular View", usage of branches' data (Topo ID, Connection) A Operation of Plane Figure B (4) Usage of Coss section Edito Input Cross-section data Put Mark B Understanding of Resitance Numbers C Understanding of Processed Data B Operation of Plane Figure A Connection with Network Editor B Understanding of the relationship between Network and Cross-section A (5) Usage of Boundary data Editor Understanding of required boundary data B Setting of boundary data Understanding of ferquired boundary data B Setting of boundary data A Understanding of fada format (Time Seriese and Constant) B Making Time-series Data (6) Usage of Rinofilm Model (RRRBarameters) "Catchments", Insert Catchment and Choice of proper model type "UHM", set of proper model parameters "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial A "Timeseries", Setting of Rainfall data  "Timeseries", Setting of Rainf		Α	T
- Connection each point as a river branch - Connection between each branch - Connection between each branch - Showing of Tabular View - "Tabular View", usage of points' data (XY-cor, Chainage, Data Type) - "Tabular View", usage of branches' data (Topo ID, Connection) - Operation of Plane Figure - Repair of Consection data - Put Mark - Input Cross-section data - Put Mark - Understanding of Resitance Numbers - Understanding of Processed Data - Operation of Plane Figure - Connection with Network Editor - Understanding of the relationship between Network and Cross-section - Understanding of required boundary data - Setting of boundary data - Setting of boundary data - Setting of boundary data - Understanding of required boundary data - Setting of Figure - Connection with Network Editor - Making Time-series Data - Making Time-series Data - Making Time-series Data - "UHM", set of proper model parameters - "UHM", Insert Catchment and Choice of proper model type - "Catchments", Insert Catchment and Choice of proper model type - "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial - "Timeseries", Understanding of Weighted timeseries setting - Connection with Network Editor - Understanding of Global Values and Local Values - Setting of Initial condition - Setting of Bed Resistance - Showing of Longitudal profile of each river			
- Connection between each branch - Showing of Tabular View - "Tabular View", usage of points' data (XY-cor, Chainage, Data Type) - "Tabular View", usage of branches' data (Topo ID, Connection) - Operation of Plane Figure - "Operation of Plane Figure - B - "Operation of Plane Figure - Input Cross-section data - Put Mark - Understanding of Resitance Numbers - Understanding of Processed Data - Operation of Plane Figure - Connection with Network Editor - Understanding of the relationship between Network and Cross-section - Understanding of the relationship between Network and Cross-section - Understanding of the relationship between Network and Cross-section - Understanding of data format (Time Seriese and Constant) - Understanding of data format (Time Seriese and Constant) - Connection with Network Editor - Making Time-series Data - "Connection with Network Editor - Making Time-series Data - "Catchments", Insert Catchment and Choice of proper model type - "UHM", set of proper model parameters - "UHM", set of proper model parameters - "UHM", set of proper model parameters - "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial - "Timeseries", Setting of Rainfall data - "Timeseries", Setting of Rainfall data - "Timeseries", Understanding of Weighted timeseries setting - Connection with Network Editor - Understanding of Global Values and Local Values - Setting of Initial condition - A - Setting of Bed Resistance - A - Setting of Bed Resistance - A - Setting of Bed Resistance - B - Setting of Dougitudal profile of each river - B			
- Showing of Tabular View - "Tabular View", usage of points' data (XY-cor, Chainage, Data Type) - "Tabular View", usage of branches' data (Topo ID, Connection) - A - Operation of Plane Figure - B - Wasage of Ecoss section Editor - Input Cross-section data - Put Mark - Put Mark - Understanding of Resitance Numbers - Understanding of Processed Data - Operation of Plane Figure - Connection with Network Editor - Understanding of the relationship between Network and Cross-section - Understanding of the relationship between Network and Cross-section - Silvest of Boundary data - Understanding of required boundary data - Setting of boundary data - Understanding of data format (Time Seriese and Constant) - Connection with Network Editor - Making Time-series Data - Connection with Network Editor - Making Time-series Data - "Cutchments", Insert Catchment and Choice of proper model type - "Catchments", Insert Catchment and Choice of proper model type - "UHM", set of proper model parameters - "UHM", Finding and Modification of MIKEI1 bug (Lag Time and Initial - "Timeseries", Understanding of Weighted timeseries setting - "UHM", Finding and Modification of MIKEI1 bug (Lag Time and Initial - "Timeseries", Understanding of Weighted timeseries setting - Understanding of Global Values and Local Values - Setting of Initial condition - Understanding of Global Values and Local Values - Setting of Initial condition - Setting of Initial condition - Setting of Initial condition - Setting of Bed Resistance - Silvesgeconterior of Economic Connection with Network Editor - Setting of Initial condition - Setting o			
- "Tabular View", usage of points' data (XY-cor, Chainage, Data Type) - "Tabular View", usage of branches' data (Topo ID, Connection) - Operation of Plane Figure (A) Usage of Eross-section Editor - Input Cross-section data - Put Mark - Input Cross-section data - Put Mark - Understanding of Resitance Numbers - Cunderstanding of Processed Data - Operation of Plane Figure - Connection with Network Editor - Understanding of the relationship between Network and Cross-section - Understanding of required boundary data - Setting of boundary data - Understanding of required boundary data - Setting of boundary data - Understanding of data format (Time Seriese and Constant) - Connection with Network Editor - Making Time-series Data - "Catchments", Insert Catchment and Choice of proper model type - "UHM", set of proper model parameters - "UHM", set of proper model parameters - "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial - "Timeseries", Setting of Rainfall data - "Timeseries", Understanding of Weighted timeseries setting - Connection with Network Editor - Connection with Network Editor - Connection with Network Editor - "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial - "Timeseries", Setting of Rainfall data - "Timeseries", Understanding of Weighted timeseries setting - Connection with Network Editor - Connection with Network Editor - Connection with Network Editor - Connection of Global Values and Local Values - Setting of Bed Resistance - Setting of Bed Resistance - Setting of Bed Resistance - Setting of Longitudal profile of each river			
- "Tabular View", usage of branches' data (Topo ID, Connection)  Operation of Plane Figure  (4) Usage of Cross-section Editor  Input Cross-section data  Put Mark  Put Mark  Understanding of Resitance Numbers  Culderstanding of Processed Data  Operation of Plane Figure  Connection with Network Editor  Understanding of the relationship between Network and Cross-section  (5) Usage of Boundary data Editor  Understanding of required boundary data  Setting of boundary data  Understanding of data format (Time Seriese and Constant)  B  Connection with Network Editor  Haking Time-series Data  (6) Usage of Runoft Model (IRRRarameters)  "Catchments", Insert Catchment and Choice of proper model type  "Catchments", Insert Catchment and Choice of proper model type  "UHM", set of proper model parameters  "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial  "Timeseries", Setting of Rainfall data  "Timeseries", Understanding of Weighted timeseries setting  A  Connection with Network Editor  B  "Timeseries", Understanding of Weighted timeseries setting  A  Connection with Network Editor  Understanding of Global Values and Local Values  Setting of Initial condition  A  Setting of Bed Resistance  (8) Usage of MIKENEWE  Showing of Longitudal profile of each river			
- Operation of Plane Figure  (#Wesage of Cross-section Editor - Input Cross-section data - Put Mark - Understanding of Resitance Numbers - Cunderstanding of Processed Data - Operation of Plane Figure - Connection with Network Editor - Understanding of the relationship between Network and Cross-section - Understanding of the relationship between Network and Cross-section - Understanding of the relationship between Network and Cross-section - Understanding of required boundary data - Setting of boundary data - Understanding of of ata format (Time Seriese and Constant) - Connection with Network Editor - Understanding of data format (Time Seriese and Constant) - Connection with Network Editor - Making Time-series Data - Connection with Network Editor - "Catchments", Insert Catchment and Choice of proper model type - "Catchments", Insert Catchment and Choice of proper model type - "UHM", set of proper model parameters - "UHM", set of proper model parameters - "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial - "Timeseries", Understanding of Weighted timeseries setting - Connection with Network Editor - Understanding of Global Values and Local Values - Setting of Initial condition - A - Setting of Initial condition - A - Setting of Bed Resistance - Setting of Bed Resistance - Setting of Longitudal profile of each river			
(4) Usage of Cross-section Editor - Input Cross-section data - Put Mark B - Understanding of Resitance Numbers C - Understanding of Processed Data B - Operation of Plane Figure A - Connection with Network Editor - Understanding of the relationship between Network and Cross-section A (5) Usage of Boundary data Editor - Understanding of required boundary data - Setting of boundary data - Understanding of data format (Time Seriese and Constant) B - Connection with Network Editor - Making Time-series Data (6) Usage of Runofis Model (RRR) Parameters) - "Catchments", Insert Catchment and Choice of proper model type - "UHM", set of proper model parameters B - "UHM", Finding and Modification of MIKE 11 bug (Lag Time and Initial - "Timeseries", Setting of Rainfall data - "Timeseries", Understanding of Weighted timeseries setting A - Connection with Network Editor B (6) Usage of Runofis Model (RRR) Parameters B - "UHM", Finding and Modification of MIKE 11 bug (Lag Time and Initial - "Timeseries", Understanding of Weighted timeseries setting A - Connection with Network Editor B (6) Usage of Hubbarameter Editor - Understanding of Global Values and Local Values - Setting of Initial condition - Setting of Bed Resistance A (8) Usage of KNIKE VIEW - Showing of Longitudal profile of each river			
- Input Cross-section data - Put Mark - Understanding of Resitance Numbers - Understanding of Processed Data - Operation of Plane Figure - Connection with Network Editor - Understanding of the relationship between Network and Cross-section - Understanding of the relationship between Network and Cross-section - Understanding of required boundary data - Understanding of required boundary data - Setting of boundary data - Understanding of data format (Time Seriese and Constant) - Connection with Network Editor - Making Time-series Data - Connection with Network Editor - "UHM", set of proper model parameters - "Catchments", Insert Catchment and Choice of proper model type - "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial - "Timeseries", Setting of Rainfall data - "Timeseries", Setting of Rainfall data - "Timeseries", Understanding of Weighted timeseries setting - Connection with Network Editor - Understanding of Global Values and Local Values - Setting of Initial condition - A - Setting of Bed Resistance - A - Setting of Longitudal profile of each river - B		B	TO SECRETARIO CALIFORNIA DE LA CONTRACTOR DE
- Put Mark  - Understanding of Resitance Numbers  - Understanding of Processed Data  - Operation of Plane Figure  - Connection with Network Editor  - Understanding of the relationship between Network and Cross-section  - Understanding of the relationship between Network and Cross-section  - Understanding of required boundary data  - Understanding of required boundary data  - Setting of boundary data  - Understanding of data format (Time Seriese and Constant)  - Connection with Network Editor  - Making Time-series Data  - (6) Usage of Ruinoft Model ((RRRarameters))  - "Catchments", Insert Catchment and Choice of proper model type  - "UHM", set of proper model parameters  - "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial  - "Timeseries", Setting of Rainfall data  - "Timeseries", Understanding of Weighted timeseries setting  - Connection with Network Editor  - Understanding of Global Values and Local Values  - Setting of Initial condition  - Setting of Bad Resistance  A  (8) 10 sage of MIKE VIEW  - Showing of Longitudal profile of each river			<b>X</b>
- Understanding of Resitance Numbers C - Understanding of Processed Data B - Operation of Plane Figure A - Connection with Network Editor B - Understanding of the relationship between Network and Cross-section A (S)\(\mathbb{L}\)\(\text{SageofsBoundaryAdata}\)\(\text{Editor}\)\			
- Understanding of Processed Data - Operation of Plane Figure - Connection with Network Editor - Understanding of the relationship between Network and Cross-section - Understanding of the relationship between Network and Cross-section - Understanding of required boundary data - Understanding of required boundary data - Setting of boundary data - Understanding of data format (Time Seriese and Constant) - Connection with Network Editor - Making Time-series Data - Making Time-series Data - "Catchments", Insert Catchment and Choice of proper model type - "UHM", set of proper model parameters - "UHM", set of proper model parameters - "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial - "Timeseries", Setting of Rainfall data - "Timeseries", Understanding of Weighted timeseries setting - Connection with Network Editor - Understanding of Global Values and Local Values - Setting of Initial condition - Setting of Bed Resistance - Setting of Bed Resistance - Showing of Longitudal profile of each river			
- Operation of Plane Figure  - Connection with Network Editor  - Understanding of the relationship between Network and Cross-section  (5))Usage of Boundary data Editors  - Understanding of required boundary data  - Setting of boundary data  - Setting of boundary data  - Understanding of data format (Time Seriese and Constant)  - Understanding of data format (Time Seriese and Constant)  - Connection with Network Editor  - Making Time-series Data  (6))Usage of Runoff Model (RRR Parameters)  - "Catchments", Insert Catchment and Choice of proper model type  - "UHM", set of proper model parameters  - "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial  - "Timeseries", Setting of Rainfall data  - "Timeseries", Understanding of Weighted timeseries setting  - Connection with Network Editor  (10))Usage of HD) Parameter Editor  - Understanding of Global Values and Local Values  - Setting of Initial condition  - Setting of Bed Resistance  (8))Usage of MIKE VIEW  - Showing of Longitudal profile of each river			
- Connection with Network Editor - Understanding of the relationship between Network and Cross-section  (5)) Usage of Boundary data Editor - Understanding of required boundary data - Setting of boundary data - Understanding of data format (Time Seriese and Constant) - Connection with Network Editor - Making Time-series Data - Making Time-series Data - "Catchments", Insert Catchment and Choice of proper model type - "Catchments", Insert Catchment and Choice of proper model type - "UHM", set of proper model parameters - "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial - "Timeseries", Setting of Rainfall data - "Timeseries", Setting of Rainfall data - "Connection with Network Editor - Understanding of Global Values and Local Values - Setting of Initial condition - Setting of Initial condition - Setting of Bed Resistance - A  (8) 1 Usage of MIKE VIEW - Showing of Longitudal profile of each river			
- Understanding of the relationship between Network and Cross-section  (⑤) Usage of Boundary data			
Solution of Indian Condition   B   Connection with Network Editor   Connection with Network Editor   Catchments", Insert Catchment and Choice of proper model type   A   Connection with Network Editor   Connection with Network Edit			
- Understanding of required boundary data - Setting of boundary data - Understanding of data format (Time Seriese and Constant) - Connection with Network Editor - Making Time-series Data - Making Time-series Data - "Catchments", Insert Catchment and Choice of proper model type - "Catchments", Insert Catchment and Choice of proper model type - "UHM", set of proper model parameters - "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial - "Timeseries", Setting of Rainfall data - "Timeseries", Understanding of Weighted timeseries setting - Connection with Network Editor - Understanding of Global Values and Local Values - Setting of Initial condition - Setting of Bed Resistance - Showing of Longitudal profile of each river - B	- Understanding of the relationship between Network and Cross-section		
- Setting of boundary data - Understanding of data format (Time Seriese and Constant) - Connection with Network Editor - Making Time-series Data - Making Time-series Data - Making Time-series Data - Making Time-series Data - "Catchments", Insert Catchment and Choice of proper model type - "Catchments", Insert Catchment and Choice of proper model type - "UHM", set of proper model parameters - "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial A - "Timeseries", Setting of Rainfall data - "Timeseries", Understanding of Weighted timeseries setting - Connection with Network Editor - Understanding of Global Values and Local Values - Setting of Initial condition - Setting of Bed Resistance - A  - Setting of Longitudal profile of each river - B		_	
- Understanding of data format (Time Seriese and Constant)  - Connection with Network Editor  - Making Time-series Data  (6) **USage*** of Runofff Model** (RR&Parameters)**  - "Catchments", Insert Catchment and Choice of proper model type  - "UHM", set of proper model parameters  - "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial  - "Timeseries", Setting of Rainfall data  - "Timeseries", Understanding of Weighted timeseries setting  - Connection with Network Editor  - Understanding of Global Values and Local Values  - Setting of Initial condition  - Setting of Bed Resistance  (8) **USage*** of Longitudal profile of each river  B  - Understanding of Longitudal profile of each river  B			
- Connection with Network Editor - Making Time-series Data  (⑤) **Wesage: Of Runoft Model (RR Parameters)** - "Catchments", Insert Catchment and Choice of proper model type - "UHM", set of proper model parameters - "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial A - "Timeseries", Setting of Rainfall data - "Timeseries", Understanding of Weighted timeseries setting - Connection with Network Editor - Understanding of Global Values and Local Values - Setting of Initial condition - Setting of Bed Resistance  (⑧) **USage: Of MIKE* VIEW* - Showing of Longitudal profile of each river  B    A   Connection with Network Initial condition   A   Connection of the Network Initial Condition   Conn			•
- Making Time-series Data  (⑤) Usage of Runoff Model (RR Parameters)  - "Catchments", Insert Catchment and Choice of proper model type  - "UHM", set of proper model parameters  B  - "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial A  - "Timeseries", Setting of Rainfall data  - "Timeseries", Understanding of Weighted timeseries setting  - Connection with Network Editor  - Understanding of Global Values and Local Values  - Setting of Initial condition  - Setting of Bed Resistance  (8) Usage of MIKE VIEW  - Showing of Longitudal profile of each river  A			
(6) Wsage of Runoff Model (RRP Parameters)  - "Catchments", Insert Catchment and Choice of proper model type  - "UHM", set of proper model parameters  - "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial A  - "Timeseries", Setting of Rainfall data  - "Timeseries", Understanding of Weighted timeseries setting  - Connection with Network Editor  - Understanding of Global Values and Local Values  - Setting of Initial condition  - Setting of Bed Resistance  (8) Wsage of Wilks Wilsw  - Showing of Longitudal profile of each river  B			
- "Catchments", Insert Catchment and Choice of proper model type - "UHM", set of proper model parameters - "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial A - "Timeseries", Setting of Rainfall data - "Timeseries", Understanding of Weighted timeseries setting - Connection with Network Editor - Understanding of Global Values and Local Values - Setting of Initial condition - Setting of Bed Resistance  (8) Wage of MIKE VIEW - Showing of Longitudal profile of each river  A	- Making Time-series Data		
- "UHM", set of proper model parameters  - "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial A  - "Timeseries", Setting of Rainfall data  - "Timeseries", Understanding of Weighted timeseries setting  - Connection with Network Editor  - Understanding of Global Values and Local Values  - Setting of Initial condition  - Setting of Bed Resistance  (8) Wage of MIKE VIEW  - Showing of Longitudal profile of each river   B  B  (8) Wage of MIKE VIEW  - Showing of Longitudal profile of each river	(6) Usage of Runoff Model ((RR/Rarameters)		
- "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial  - "Timeseries", Setting of Rainfall data  - "Timeseries", Understanding of Weighted timeseries setting  - Connection with Network Editor  - Understanding of Global Values and Local Values  - Setting of Initial condition  - Setting of Bed Resistance  (8) AUSage of MIKE VIEW  - Showing of Longitudal profile of each river  - "Time and Initial A  A  - "Time and Initial A  A  - "Timeseries", Setting and Modification of MIKE11 bug (Lag Time and Initial A  - A  - "Timeseries", Setting of Rainfall data  A  - "Timeseries", Understanding of Weighted timeseries setting  A  - "Timeseries", Understanding of Weighted timeseries setting  - A  - "Timeseries", Understanding of Weighted timeseries setting  - A  - "Timeseries", Understanding of Weighted timeseries setting  - A  - "Timeseries", Understanding of Weighted timeseries setting  - A  - "Timeseries", Understanding of Weighted timeseries setting  - A  - "Timeseries", Understanding of Weighted timeseries setting  - A  - "Timeseries", Understanding of Weighted timeseries setting  - A  - "Timeseries", Understanding of Weighted timeseries setting  - A  - "Timeseries", Understanding of Weighted timeseries setting  - A  - "Timeseries", Understanding of Weighted timeseries setting  - A  - "Timeseries", Understanding of Weighted timeseries setting  - A  - "Timeseries", Understanding of Weighted timeseries setting  - A  - "Timeseries", Understanding of Weighted timeseries setting  - A  - "Timeseries", Understanding of Weighted timeseries setting  - A  - "Timeseries", Understanding of Weighted timeseries setting  - A  - "Timeseries", Understanding of Weighted timeseries setting  - A  - "Timeseries", Understanding of Weighted timeseries setting  - A  - "Timeseries", Understanding of Weighted timeseries setting  - A  - "Timeseries", Understanding of Weighted timeseries setting  - A  - "Timeseries", Understanding of Weighted timeseries setting  - A  - "Timeseries", Understanding of Weighted timeseries setting  - A			
- "Timeseries", Setting of Rainfall data  - "Timeseries", Understanding of Weighted timeseries setting  - Connection with Network Editor  - Understanding of Global Values and Local Values  - Setting of Initial condition  - Setting of Bed Resistance  (8) AUSage of MIKE VIEW  - Showing of Longitudal profile of each river  A			
- "Timeseries", Understanding of Weighted timeseries setting - Connection with Network Editor B  (i/i)NUsage:ofHD)Rarameter/Editor - Understanding of Global Values and Local Values - Setting of Initial condition - Setting of Bed Resistance  (8)NUsage:oftMIKE VIEW - Showing of Longitudal profile of each river  B		A	
- Connection with Network Editor  (7) Usage of HD Rarameter Editor  - Understanding of Global Values and Local Values  - Setting of Initial condition  - Setting of Bed Resistance  (8) Usage of MIKE VIEW  - Showing of Longitudal profile of each river  B		A	
(7)) Usage of HD) Parameter Editor  - Understanding of Global Values and Local Values  - Setting of Initial condition  - Setting of Bed Resistance  (8) Usage of MIKE VIEW  - Showing of Longitudal profile of each river  B		A	
- Understanding of Global Values and Local Values  - Setting of Initial condition  - Setting of Bed Resistance  (8) Usage of MIKE VIEW  - Showing of Longitudal profile of each river  B		В	
- Understanding of Global Values and Local Values  - Setting of Initial condition  - Setting of Bed Resistance  - Showing of Longitudal profile of each river  - Showing of Longitudal profile of each river  - B	(71) Usage of HD Rarameter Editor		
- Setting of Initial condition A - Setting of Bed Resistance A  (8) IUsage of MIKE VIEW - Showing of Longitudal profile of each river B		В	1,450
- Setting of Bed Resistance  (8) LUSage of MIKE VIEW - Showing of Longitudal profile of each river  B			
(8) Usage of MIKE VIEW  - Showing of Longitudal profile of each river  B			
- Showing of Longitudal profile of each river B			
		В	A PROPERTY OF STREET HOUSE CONTRACTOR CONTRACTOR AND ASSESSMENT OF STREET AND ASSESSMENT OF STREET ASSESSMENT OF S
- Showing of Hydrograph C			
- Taking required data from MIKE VIEW B			, , , , , , , , , , , , , , , , , , ,

### Name of Trainee: 3

Items	Evaluatio	Remarks
(1) Understanding of Outline of Flood Simulation Software		Kemai Ks
- Understanding of Structure of MIKE11	A	
- Understanding of required file type of MIKE11	A	
(2) Usage of Simulation Editor		
- "Models", Choise of proper models	A	
- "Input", Connection of each required files	A	
- "Simulation", Set of proper time step	A	
- "Simulation", Set of proper period	A	
- "Simulation", Set of proper condition	A	
- "Results", Set of proper unit of results	C	
- "Start", He/She can find defective file when he can't start simulation	B	
(3)) Usage of Network Editors		
- Open and set of Network Editor	A	
- Plot of each point	$\frac{A}{A}$	77
- Connection each point as a river branch	$\frac{\Lambda}{C}$	
- Connection between each branch	В	THE RESIDENCE OF THE PERSON OF
- Showing of Tabular View	A	
- "Tabular View", usage of points' data (XY-cor, Chainage, Data Type)	A	
- "Tabular View", usage of branches' data (Topo ID, Connection)	A	
- Operation of Plane Figure	$\frac{\Lambda}{\Lambda}$	
(4) Usage of Cross-section Editor		
- Input Cross-section data	A	LANE
- Put Mark	$\frac{A}{A}$	THE RESIDENCE TO THE RE
- Understanding of Resitance Numbers	B	
- Understanding of Processed Data	В	
- Operation of Plane Figure	A	, and the second
- Connection with Network Editor	$\frac{A}{A}$	ATTENDED TO THE PROPERTY OF TH
- Understanding of the relationship between Network and Cross-section	$\frac{\Lambda}{C}$	
(S) Usage of Boundary data Editors		
- Understanding of required boundary data	A	
- Setting of boundary data	A	
- Understanding of data format (Time Seriese and Constant)	A	
- Connection with Network Editor	A	
- Making Time-series Data	A	
(6) Usage of Runoff Model ((RR Parameters))		
- "Catchments", Insert Catchment and Choice of proper model type	A	
- "UHM", set of proper model parameters	A	
- "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial		
- "Timeseries", Setting of Rainfall data	A	
- "Timeseries", Understanding of Weighted timeseries setting	B	
- Connection with Network Editor	A	
(7) Usage of (HD) Rarameter Editor		
- Understanding of Global Values and Local Values	l A l	
- Setting of Initial condition	A B	
- Setting of Initial condition - Setting of Bed Resistance	·	
(8): Usage of MIKE VIEW	A	
- Showing of Longitudal profile of each river	A I	
- Showing of Cross-section and water level simulation result	$\frac{A}{D}$	
- Showing of Cross-section and water level simulation result - Showing of Hydrograph	B	
	В	
- Taking required data from MIKE VIEW	<u>A</u>	

### Name of Trainee: 4

Items	Evaluatio	Remarks
(1)) Understanding of Outline of Flood Simulation Software		
- Understanding of Structure of MIKE11	В	
- Understanding of required file type of MIKE11	A	
(2): Usage of Simulation Editor		
- "Models", Choise of proper models	C	CONTRACTOR
- "Input", Connection of each required files	A	
- "Simulation", Set of proper time step	В	**************************************
- "Simulation", Set of proper period	A	
- "Simulation", Set of proper condition	A	
- "Results", Set of proper unit of results	С	
- "Start", He/She can find defective file when he can't start simulation	В	
(3)) Usage of Network Editor		
- Open and set of Network Editor	A	
- Plot of each point	A	
- Connection each point as a river branch	В	
- Connection between each branch	Ĉ	
- Showing of Tabular View	A	
- "Tabular View", usage of points' data (XY-cor, Chainage, Data Type)	A	
- "Tabular View", usage of branches' data (Topo ID, Connection)	В	T TOTAL PROPERTY OF THE PARTY O
- Operation of Plane Figure	A	
(4) Usage of Cross-section Editor		
- Input Cross-section data	В	EM ANTERIOR PARTIES DE CONTRA PER PER LA CONTRA DE
- Put Mark	A	M. I
- Understanding of Resitance Numbers	В	
- Understanding of Processed Data	B	
- Operation of Plane Figure	В	
- Connection with Network Editor	B	
- Understanding of the relationship between Network and Cross-section	C	
(5) Usage of Boundary data Editor		
- Understanding of required boundary data	C	Selection and Company Company Company of the Compan
- Setting of boundary data	В	
- Understanding of data format (Time Seriese and Constant)	C	
- Connection with Network Editor	В	7/7 78/18/18/18/18/18/18
- Making Time-series Data	A	
(6) Usage of Runoff Model (RR Parameters)		
- "Catchments", Insert Catchment and Choice of proper model type	A	STEEL ST
- "UHM", set of proper model parameters	A	
- "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial	C	
- "Timeseries", Setting of Rainfall data	A	'
- "Timeseries", Understanding of Weighted timeseries setting	A	
- Connection with Network Editor	C	
(7)) Usage of HD) Parameter Editor.		
- Understanding of Global Values and Local Values	A	
- Setting of Initial condition	$\frac{1}{C}$	
- Setting of Bed Resistance	В	
(8) Usage of MIKE VIEW		
- Showing of Longitudal profile of each river	В	THE RESERVE THE PROPERTY OF TH
- Showing of Cross-section and water level simulation result	- ĉ	
- Showing of Hydrograph	$\frac{c}{c}$	
- Taking required data from MIKE VIEW	В	· · · · · · · · · · · · · · · · · · ·
Towns redented seem from MILLE 1 112-11	ם	. <u></u>

### Name of Trainee: 5

Items	Evaluatio	Remarks
(1) Understanding of Outline of Flood Simulation Software		
- Understanding of Structure of MIKE11	A	
- Understanding of required file type of MIKE11	Α	
(2): Usage of Simulation Editor	第三字号和10字:	
- "Models", Choise of proper models	A	
- "Input", Connection of each required files	A	
- "Simulation", Set of proper time step	В	
- "Simulation", Set of proper period	A	
- "Simulation", Set of proper condition	A	
- "Results", Set of proper unit of results	С	
- "Start", He/She can find defective file when he can't start simulation	A	
(3) Usage of Network Editor		
- Open and set of Network Editor	A	and the second s
- Plot of each point `	A	
- Connection each point as a river branch	A	
- Connection between each branch	A	
- Showing of Tabular View	A	
- "Tabular View", usage of points' data (XY-cor, Chainage, Data Type)	A	
- "Tabular View", usage of branches' data (Topo ID, Connection)	A	
- Operation of Plane Figure	A	
(4) Usage of Cross-section Editor	Annual Company of Company of Company of Company	
- Input Cross-section data	A	
- Put Mark	A	
- Understanding of Resitance Numbers	B	
- Understanding of Processed Data	В	
- Operation of Plane Figure	A	
- Connection with Network Editor	A	
- Understanding of the relationship between Network and Cross-section	A	
(5) Usage of Boundary data Editor	71	
- Understanding of required boundary data	A	
- Setting of boundary data	. A	
- Understanding of data format (Time Seriese and Constant)	A	
- Connection with Network Editor	A	
- Making Time-series Data	A	
(6) Usage of Runoff Model (RRP Parameters)		
- "Catchments", Insert Catchment and Choice of proper model type	A	
- "UHM", set of proper model parameters	A	
- "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial	В	
- "Timeseries", Setting of Rainfall data	A	
- "Timeseries", Understanding of Weighted timeseries setting	~	
- Connection with Network Editor	A	
Wusage of HD) Parameter Editor	A	
- Understanding of Global Values and Local Values - Setting of Initial condition	A	
	<u>A</u> ~	
- Setting of Bed Resistance	A	
(8) Usage of MIKE VIEW		
- Showing of Longitudal profile of each river	<u>A</u>	
- Showing of Cross-section and water level simulation result	A	
- Showing of Hydrograph	В	
- Taking required data from MIKE VIEW	A	

### Name of Trainee: 6

Items	Evaluatio	Remarks
(1). Understanding of Outline of Flood Simulation Software		i Kemai Ks
- Understanding of Structure of MIKE11	A	Unide Ministration of Conference and Administration of the Adminis
- Understanding of required file type of MIKE11	A	
(2) Usage of Simulation Editor		
- "Models", Choise of proper models .	A	<u>an and anni an </u>
- "Input", Connection of each required files	A	
- "Simulation", Set of proper time step	В	
- "Simulation", Set of proper period	A	
- "Simulation", Set of proper condition	В	
- "Results", Set of proper unit of results	C	
- "Start", He/She can find defective file when he can't start simulation	A	
(3) Usage of Network Editor 38		
- Open and set of Network Editor	A	
- Plot of each point	A	
- Connection each point as a river branch	B	
- Connection between each branch	A	
- Showing of Tabular View	A	
- "Tabular View", usage of points' data (XY-cor, Chainage, Data Type)	A	
- "Tabular View", usage of branches' data (Topo ID, Connection)	A	
- Operation of Plane Figure	A	
(4)¿Usage of Cross section Editor	A [	
- Input Cross-section data		
- Put Mark	A	
- Understanding of Resitance Numbers	<u>A</u>	
- Understanding of Processed Data	В	
- Operation of Plane Figure	В	
- Connection with Network Editor	A	
- Understanding of the relationship between Network and Cross-section	A	
(5) Usage of Boundary data Editor	A	
- Understanding of required boundary data		and the second s
- Setting of boundary data	A	
- Understanding of data format (Time Seriese and Constant)	A	
- Connection with Network Editor	В	
	<u>A</u>	
- Making Time-series Data	A	Total and the second of the se
(6) Usage: of: Runoff Model (RRParameters)		
- "Catchments", Insert Catchment and Choice of proper model type	A	, , , , , , , , , , , , , , , , , , , ,
- "UHM", set of proper model parameters	<u>A</u>	
- "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial	В	
- "Timeseries", Setting of Rainfall data	A	
- "Timeseries", Understanding of Weighted timeseries setting	A	
- Connection with Network Editor	A	
(//) Usage of HD Parameter Editors		
- Understanding of Global Values and Local Values	В	
- Setting of Initial condition	Α	
- Setting of Bed Resistance	В	
(8) Usage of MIKE VIEW		
- Showing of Longitudal profile of each river	A	
- Showing of Cross-section and water level simulation result	В	, , , , , , , , , , , , , , , , , , , ,
- Showing of Hydrograph	A	
- Taking required data from MIKE VIEW	A	

### Name of Trainee: 7

Items	Evaluatio	Remarks
(1) Understanding of Outline of Flood Simulation Software		
- Understanding of Structure of MIKE11	A	The same of the sa
- Understanding of required file type of MIKE11	A	
(2) Usage of Simulation Editor		
- "Models", Choise of proper models	A	
- "Input", Connection of each required files	В	
- "Simulation", Set of proper time step	С	
- "Simulation", Set of proper period	Ā	
- "Simulation", Set of proper condition	A	
- "Results", Set of proper unit of results	C	
- "Start", He/She can find defective file when he can't start simulation	. c	
- Open and set of Network Editor	A	
- Plot of each point	A	
- Connection each point as a river branch	A	
- Connection between each branch	A	
- Showing of Tabular View	A	
- "Tabular View", usage of points' data (XY-cor, Chainage, Data Type)	A	ALL COMPANIES OF THE PROPERTY
- "Tabular View", usage of branches' data (Topo ID, Connection)	A	***************************************
- Operation of Plane Figure	A	
		n i di paramatan di kacamatan atau
- Input Cross-section data	A	
- Put Mark	B	
- Understanding of Resitance Numbers	A	
- Understanding of Processed Data	A	- The state of the
- Operation of Plane Figure	A	
- Connection with Network Editor	A	
- Understanding of the relationship between Network and Cross-section	A	
(5)) Usage of Boundary data Editor		
- Understanding of required boundary data	A	
- Setting of boundary data	A	
- Understanding of data format (Time Seriese and Constant)	A	· · · · · · · · · · · · · · · · · · ·
- Connection with Network Editor	A	
- Making Time-series Data	B	
(6) Usage of Runoff Model (RRP Parameters)	_ D	
- "Catchments", Insert Catchment and Choice of proper model type	A	
- "UHM", set of proper model parameters	A	
- "UHM", Finding and Modification of MIKE11 bug (Lag Time and Initial		
- "Timeseries", Setting of Rainfall data	A	
- "Timeseries", Understanding of Weighted timeseries setting	$\frac{A}{A}$	
- Connection with Network Editor	B	
	D ]	
(7) Usage of HD Rarameter Editors		
- Understanding of Global Values and Local Values Setting of Initial condition	A	
- Setting of Initial condition	B	
- Setting of Bed Resistance  (8) Usage of MIKE VIEW	A	
- Showing of Longitudal profile of each river	A	
- Showing of Cross-section and water level simulation result	<u> </u>	
- Showing of Hydrograph	<u> </u>	
- Taking required data from MIKE VIEW	A	