

SUPPORTING REPORT M

**SCOPE OF WORK AND
MINUTES OF MEETING**

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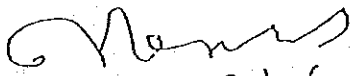
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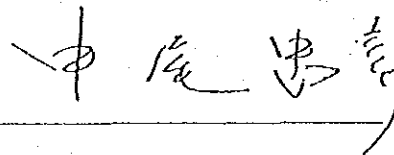
SCOPE OF WORK
FOR
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)
OF
BANGLADESH FLOOD ACTION PLAN NO. 8A
IN
THE PEOPLE'S REPUBLIC OF BANGLADESH

AGREED UPON BETWEEN
JAPAN INTERNATIONAL COOPERATION AGENCY
AND
FLOOD PLAN COORDINATION ORGANIZATION

DHAKA, BANGLADESH, JUNE 21, 1990


21.6.90

HR. A. H. H. HURUL HUQ
CHIEF ENGINEER
FLOOD PLAN
COORDINATION ORGANIZATION
THE PEOPLE'S REPUBLIC
OF BANGLADESH



HR. TADAHIKO NAKAO
LEADER OF
PRELIMINARY SURVEY TEAM,
JAPAN INTERNATIONAL
COOPERATION AGENCY

I. INTRODUCTION

In response to the request of the Government of the People's Republic of Bangladesh (hereinafter referred to as "the Government of Bangladesh") the Government of Japan decided to conduct the Study on Greater Dhaka Protection Project for Dhaka Metropolitan Area in the People's Republic of Bangladesh of Flood Action Plan No.8A (hereinafter referred to as "the Study"), in accordance with the relevant laws and regulations in force in Japan.

Accordingly, the Japan International Cooperation Agency (hereinafter referred to as "JICA"), the official agency responsible for the implementation of the technical cooperation programmes of the Government of Japan, will undertake the Study in close cooperation with the authorities concerned of the Government of Bangladesh.

The present document sets forth the Scope of Work with regard to the Study.

II. OBJECTIVES OF THE STUDY

The objectives of the Study are as follows:

1. to formulate a Master Plan on a comprehensive flood control and stormwater drainage for Dhaka Metropolitan Area.
2. to conduct a feasibility study on a flood control and stormwater drainage for the priority area identified in the Master Plan.

III. STUDY AREA

The Study area will cover Dhaka Metropolitan area (approximately 850 km²), consisting of Greater Dhaka area (approximately 260km²), Tongi, Savar, Keraniganj and Narayanganj.

IV. OUTLINE OF THE STUDY

1. Study Framework

The Study Comprises of the following three (3) phases

Phase 1: Preliminary Review

Phase 2: Master Plan Study on a comprehensive flood control and stormwater drainage in the Dhaka Metropolitan area

Phase 3: Feasibility study for priority area identified in the Master Plan

2. Study Items

2-1 Phase 1: Preliminary Review

2-1-1 Collection, collation and updating of available data and informations as described below:

- a. topographic map, aerial photograph and related drawings,
- b. soil, geological and geographical data,
- c. population, land use and regional development plans,
- d. existing road network,
- e. hydrological and hydraulic conditions,
- f. existing flood control and stormwater drainage facilities,
- g. past floods and flood damages,
- h. related institutions, and
- i. other related data and information.

2-1-2 Review of the relevant previous studies, reports and plans including ongoing projects

2-1-3 Carrying out of the following field surveys and investigations:

- a. field reconnaissance,
- b. supplemental topographic survey for preparation of accurate base map,
- c. longitudinal and cross sectional survey for drainage channels and rivers,
- d. supplemental geo-technical survey for proposed major flood control and drainage facilities,
- e. flood and flood damage survey, and
- f. water quality test.

2-1-4 Review of existing urban development plans and projections of population distribution and land use pattern/distribution, in order to assess the future flood control and stormwater drainage requirement.

2-2 Phase 2: A Master Plan Study on a comprehensive flood control and stormwater drainage in the Dhaka Metropolitan area
for this purpose, the following studies and analysis shall be conducted:

- a. assessment of the present conditions for the existing flood control and stormwater drainage works,
- b. target year, design rainfall and flood water level,
- c. hydraulic simulation with mathematical modelling using Hike 11 of the Surface Water Modelling Centre for the 850 km² area with a view to formulate and optimise planning and design aspects at the Master Plan and its priority projects considering various options for flood control and drainage,
- d. alternative studies for external flood protection and internal drainage improvement plans, and recommendation of optimum plan in consideration to capital cost, operation/maintenance, environmental and financial aspects, and
- e. preparation of phased implementation programme and identification of priority projects.

2-3 Phase 3: A feasibility study for the priority projects identified in the Master Plan Study

A feasibility study for the identified priority projects shall incorporate, the following aspects:

- a. the necessary supplementary data collection, field surveys and analysis,
- b. alternative project concepts and selection of the optimum ones considering technical, economic and operational aspects,
- c. preliminary designs of the proposed facilities, with due attention to appropriate technology and taking into account prevailing conditions in Bangladesh,
- d. time schedules for subsequent detailed design, tendering and construction, with estimated dates for putting the proposed facilities into service.

- e. approximate land acquisition plans,
- f. cost estimates for construction, operation and maintenance of the proposed projects,
- g. economic and financial evaluation of the proposed projects, including their social and environmental impacts,
- h. proposals for institutional arrangements for operation and maintenance,

V. SCHEDULE OF THE STUDY

The Study will be performed in accordance with the tentative study schedule shown in the appendix.

VI. REPORTS

JICA will prepare and submit the following reports in English to the Government of Bangladesh.

1. Inception Report (50 copies)

This report is to be submitted at the commencement of the first field survey in Bangladesh and to describe the overall approach and implementation programme of the Study.

2. Preliminary Review Report (50 copies)

This report is to be submitted at the end of the Preliminary Review phase. It shall present a compilation and analysis of all collected relevant data on the basis of which a precise description of the required Master Plan Study and of the related details of study programme

It will include a proposal for the development of the project area that will form the basis for the desired master plan. The Government of Bangladesh will offer his decision on this proposal within 1 month after submission of the Report; agreed development plan will be the basis of the Master Plan to be prepared.

3. Interim Report (50 copies)

This report is to be submitted four (4) months after the commencement of the Master Plan Study.

It shall present all findings in field survey, preliminary results of analysis and confirmation of basic idea, criteria and standard for formulation of the Master Plan.

4. Draft Master Plan Report (50 copies)

This report is to be submitted seven (7) months after the commencement of the Master plan Study.

It shall review all options assessed and propose the preferred Master Plan for flood control and drainage for the Dhaka Metropolitan Area.

The report shall make firm recommendation for the priority project(s) to be taken up for the subsequent feasibility study. Final proposals for detailed terms of reference for the feasibility study will be submitted separately.

The Government of Bangladesh will offer his decision and give its comments on this report within one (1) month after submission of the Report.

5. Master Plan Report (100 copies)

This report is to be submitted within two (2) months after receipt of the comments from the Government of Bangladesh on the Draft Master Plan Report.

6. Draft Final Report (50 copies)

This report is to be submitted six (6) months after the commencement of the Feasibility Study.

It will confirm viability of priority projects.

The Government of Bangladesh shall provide JICA with its comments within one (1) month after the receipt of the Draft Final Report.

7. Final Report (100 copies)

This report is to be submitted within one (1) month after receipt of the comments from the Government of Bangladesh on the Draft Final Report.

V3. UNDERTAKINGS OF THE GOVERNMENT OF BANGLADESH

1. To facilitate smooth conduct of the Study, the Government of Bangladesh shall take necessary measures;

(1) to secure the safety of the Japanese Study Team for the Study (hereinafter referred to as "the team") .

- (2) to permit the members of the Team to enter, leave and stay in Bangladesh for the duration of their assignment therein, and exempt them from alien registration requirements and consular fees,
 - (3) to exempt the members of the Team from taxes, duties and other charges on equipment, machinery and other materials brought into and out of Bangladesh for the implementation of the Study,
 - (4) to exempt the members of the Team from income tax and other charges of any kind imposed on or in connection with any emoluments or allowances paid to the members of the Team for their services in connection with the implementation of the Study,
 - (5) to provide necessary facilities to the Team for the remittance as well as the utilization of the funds introduced into Bangladesh from Japan in connection with the implementation of the Study,
 - (6) to secure permission for entry into private properties or restricted areas for the conduct of the Study,
 - (7) to provide and to secure permission for the Team to take all data and documents (including photographs and maps) related to the Study to Japan,
 - (8) to provide medical services as needed, its expenses will be chargeable on members of the Team.
2. The Government of Bangladesh shall bear claims, if any arises against the members of the Team resulting from, occurring in the course of, or otherwise connected with the discharge of their duties in the implementation of the Study, except when such claims arise from gross negligence or willful misconduct on the part of the members of the Team.
 3. Flood Plan Coordination Organization (hereinafter referred to as "FPCO"), Ministry of Irrigation, Water Development and Flood Control, shall be the executing agency of the Study and also as coordinating body in relation with other governmental and non-governmental organizations concerned for the smooth implementation of the Study. FPCO will review and monitor the Study.

4. FPCO shall, at its own expense, provide the Team with the followings, in cooperation with other relevant organizations concerned :

- (1) counterpart personnel necessary for the Study,
- (2) credentials or identification cards.

VIII. UNDERTAKINGS OF JICA

For the implementation of the Study, JICA shall take the following measures:

1. to dispatch, at its own expense, the Team to Bangladesh,
2. to perform technology transfer to the Bangladesh counterpart personnel in the course of the Study.

IX. CONSULTATION

JICA and FPCO shall consult each other in respect of any matter that may arise from or in connection with the Study.

X. VALIDITY OF THIS SCOPE OF WORK

This Scope of Work comes into effect as of the date when a formal request with Technical Assistance Project Proposal would be made through the diplomatic channel.

4

N.T.

TENTATIVE WORK SCHEDULE

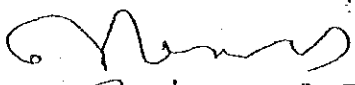
Phase	Phase 1			Phase 2							Phase 3									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Month in Order																				
Works in Bangladesh	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Works in Japan	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Reports	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△
	Ic/R	PR/R		It/R	DMP/R	MP/R		DF/R	F/R											

(Remarks)

- Ic/R : Inception Report
- PR/R : Preliminary Review Report
- It/R : Interim Report
- DMP/R : Draft Master Plan Report
- MP/R : Master Plan Report
- DF/R : Draft Final Report
- F/R : Final Report

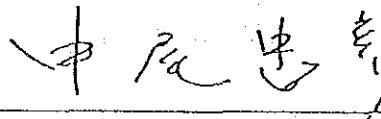
MINUTES OF MEETING
FOR
GREATER DIIAKA PROTECTION PROJECT (STUDY IN DIIAKA METROPOLITAN AREA)
OF
BANGLADESH FLOOD ACTION PLAN NO. 8A
IN
THE PEOPLE'S REPUBLIC OF BANGLADESH

DIIAKA, BANGLADESH, JUNE 21, 1990



21.6.90

H. A. K. H. HURUL HUO
CHIEF ENGINEER
FLOOD PLAN
COORDINATION ORGANIZATION
THE PEOPLE'S REPUBLIC
OF BANGLADESH



H. TADAHIKO HAKAO
LEADER OF
PRELIMINARY SURVEY TEAM,
JAPAN INTERNATIONAL
COOPERATION AGENCY

A Preliminary Survey Team (the Team) of Japan International Cooperation Agency (JICA), headed by Mr. Tadahiko, Nakao visited Bangladesh from June 15 to June 22, 1990 to discuss the Scope of Work for the study on Greater Dhaka Protection Project for Dhaka Metropolitan Area in the People's Republic of Bangladesh of Flood Action Plan No.8A (the Study).

The Team carried out field surveys of the study area and held series of discussions with officials of Flood Plan Coordination Organization (FPCO) and the authorities concerned of the Government of Bangladesh (GOB). A list of those who attended the meetings is shown in the attached sheet.

A final meeting was held on June 21, 1990 at the Conference Room of FPCO, in Dhaka. Mr. A. H. H. Nurul Haq, Chief Engineer of FPCO, presided over the meeting on behalf of FPCO. Main issues discussed on the Scope of Work are as follows:

1. It was confirmed that the Terms of Reference (T/R) for the Study was approved by the Technical Committee for FAP and GOB will request technical cooperation on the above Study to the Government of Japan through diplomatic channel, as soon as the Technical Assistance Project Proposal (TAPP) be approved, for the formality.
2. GOB understood that the responsibility of consultants as specified in Section 9 of T/R was primarily to JICA, therefore, provisions under section 9 were not applicable to the Study to be carried out under the Technical Cooperation Scheme of JICA.
3. In reference to II., III., and IV. in S/W, it was confirmed that further details and clarification should be referred to relevant section in the said T/R as guideline of the Study.
4. In reference to V. SCHEDULE OF THE STUDY in S/W, although it was agreed that part of work is done in Japan in accordance with normal procedure under JICA, GOB requested the Team to consider further that work be done in Bangladesh as much as possible, for keeping continuous consultation and coordination with FPCO, Panel of Experts and other FAP activities.

5. In reference to VI. of REPORT in S/W, it was confirmed that progress report will be prepared and submitted quarterly to GOB.

6. In reference to VI. of UNDERTAKING OF THE GOVERNMENT OF BANGLADESH in S/W, the following points were raised and confirmed:

- 1) Implementation arrangement for the study should be the same as for the Dhaka Integrated Flood Protection Project of FAP No.8B, otherwise agreed in S/W
- 2) GOB agreed to assign Bangladesh counterpart personnel as project director (full time), engineers from BHDB, DHC, RHD, DWASA, RAJUK, DOE, SOB and other organizations concerned, for the smooth execution of the Study.

7. In reference to VII. of UNDERTAKING OF JICA in S/W, GOB requested the Team;

- 1) to respect the policy of GOB to utilize availability of local consultant as much as possible for the Study.
- 2) to provide survey equipment and vehicles for the Study and donate them with customs and other duties borne by FPCO, after the completion of the Study.
- 3) to accept Bangladesh counterpart personnel for technical training in Japan.
- 4) to secure intimate communication among the Study team and organizations concerned.
- 5) to provide office with equipment borne by JICA, due to the budgetary constraint of FPCO.

8. For the smooth and effective implementation of the Study, it was agreed;

- 1) GOB should provide all data and information required in the initial stage of the Study.
- 2) GOB should make decision and give its comments on provisional Preliminary Review Report and Draft Master Plan Report on schedule in accordance with the work schedule.

attendants list

Bangladesh Side

1. Mr. Md. Nurul Huda	Chairman, Local Panel of Experts, FPCO
2. Mr. A.M.M. Nurul Huq	Chief Engineer, FPCO
3. Mr. K.B.M. Shafiuddin	Superintending Engineer, FPCO
4. Mr. Emaduddin Ahmad	Executive Engineer, FPCO
5. Mr. Md. M. Delwar Hossain	Chief Engineer, RAJUK
6. Mr. Zakir Hossain	Dhaka Town Planner, RAJUK
7. Mr. Emdadul Islam	Executive Engineer
8. Mr. R. Nurul Hasan	Superintending Engineer, LGEB
9. Mr. Md. Morsed Alam	Senior Water Resources Specialist, LGEB
10. Mr. A. Quader Chondhuy	Superintending Engineer of Drainage, DWASA
11. Mr. Shafiul Islam	Additional Chief Engineer, DMC
12. Mr. Md. Afazuddin	Chief Engineer, NEZ, WDB

Japanese Side

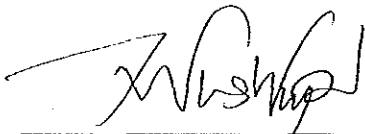
1. Mr. Tadahiko Nakao	Team Leader
2. Mr. Tomoki Sato	Member (Cooperation Policy)
3. Mr. Muneo Sato	Member (Cooperation Planning)
4. Mr. Ryosuke Kikuchi	Member (River Planning)
5. Mr. Motoharu Sekizawa	Member (River Protection & Drainage)
6. Mr. Mitsuru Suemori	Member (Project Planning)
7. Mr. Itsu Adachi	Member (Coordinator)
8. Mr. Hitoshi Baba	Embassy of Japan
9. Mr. Takeshi Naruse	JICA Bangladesh Office

Panel of Experts


1. Mr. W. Van Allen	Panel of Expert
2. Mr. Hidetomi OI	Panel of Expert

MINUTES OF MEETING
FOR
GREATER DHAKA PROTECTION PROJECT
(STUDY IN DHAKA METROPOLITAN AREA)
OF
BANGLADESH FLOOD ACTION PLAN NO 8A
IN
THE PEOPLE'S REPUBLIC OF BANGLADESH

DHAKA, BANGLADESH, OCTOBER 25, 1990



K. B. M. SHAFIUDDIN
SUPERINTENDING ENGINEER
FLOOD PLAN
COORDINATION ORGANIZATION
THE PEOPLE'S REPUBLIC
OF BANGLADESH




HAJIME TANAKA
TEAM LEADER
JICA STUDY TEAM
JAPAN INTERNATIONAL
COOPERATION AGENCY

Witness



EMADUDDIN AHMAD
EXECUTIVE ENGINEER
FPCO



DR. HIROYOSHI SHIIGAI
CHAIRMAN
ADVISORY COMMITTEE, JICA

Minutes of the Meeting for Greater Dhaka Protection Project
(Study in Dhaka Metropolitan Area) of Bangladesh Flood Action
Plan No. 8A. between JICA and FPCO on 25th October, 1990.

An Advisory Committee of Japan International Cooperation Agency headed by Dr. Hiroyoshi Shiigai and the members of the Study Team on Greater Dhaka Protection Project : FAP 8A discussed with the officials of Flood Plan Coordination Organization, (FPCO) BWDB, DMC, RAJUK, DOE, DWASA, LGEB on the draft Inception Report of the study from 23rd Oct. 90 to 25th Oct. 90 in Dhaka, Bangladesh. A list of the personnel attended the discussions are shown in annexure I. During discussions, the following points were raised and confirmed.

- 1) Agreed comments on the draft Inception report for incorporating changes at places are shown in Annexure II. The revised Inception Report will be prepared by JICA Study Team before 31st Oct. 1990 in the light of the discussion.
- 2) FPCO requested JICA to modify the tentative study schedule (shown in Fig. 3) to accommodate the important activities to be performed in Bangladesh in the spirit of sl. 4 of the minutes of the meeting on 21st June between FPCO & JICA. JICA agreed to consider the issue.
- 3) FPCO agreed to provide GOB personnel as per TAPP at the shortest possible time.
- 4) FPCO recalled the article 7 (1) of the minutes of meeting of 21st June '90 between FPCO and JICA and requested JICA study team to engage local Consultant. JICA agreed to engage local consultants and the consolidated assignment schedule will be submitted to FPCO at the earliest.
- 5) FPCO requested JICA to initiate the process of procurement of vehicles and equipment (as per list shown in TOR) under temporary importation policy through Project Pass Book (as per clause 7/2 of 21st June, 1990 minutes of the study) and keep FPCO informed. At the end of the Study JICA will donate the vehicles and equipments and GOB will make necessary arrangement of payment of Custom duty and Sales-Tax. JICA will inform on the procurement of vehicles and equipment after discussion with JICA headquarter.
- 6) FPCO & JICA jointly reconfirmed to abide by the clauses of Scope of Works and Minutes of Meeting signed on 21st June, 1990 of the study.


FPCO

JICA

APPENDIX - I

MEMBERS ATTENDED IN THE MEETING:

GOB TEAM

	Name	Designation	Organization
1.	M. N. Huda	Chairman Local Specialist Panel	FPCO
2.	Prof. Ainun Nishat	Member PoE	FPCO
3.	K. B. M. Shafiuddin	SE	FPCO
4.	Abdul Quader Choudhury	SE	DWASA
5.	Md. Mehedi Ali Khan	SE	DMC
6.	Emaduddin Ahmad	EE	FPCO
7.	Emdadul Islam	EE	RAJUK
8.	A.K.M. Halimur Rahman	EE	BWDB
9.	Md. Moksed Alam	EE	LGEB
10.	Abu Taleb Khandaker	DD	DOE

JICA TEAM

1.	Dr. Hiroyoshi Shiigai	Chairman Advisory Committee	JICA
2.	Itsu Adachi	Member	JICA
3.	Atsushi Suzuki	Member	JICA
4.	Takeshi Naruse	Deputy Rep.	JICA Dhaka
5.	Hajime Tanaka	Team Leader	JICA Study team
6.	Toshiaki Tokumasu	Deputy Team Leader	-do-
7.	Isao Misono	Member	-do-
8.	Takashi Furukawa	Member	-do-
7.	J. R. Jones	Member	-do-

X
L

D

ANNEXURE II

Comments on the Draft Inception Report of Greater
Dhaka Protection Project, FAP-8A.

Page 1 2nd line from bottom
Insert "in general" after "area"

Page 2 3rd para, 2nd line
May be rephrased as "several plans were prepared until
1987"

Page 2 last para 4th line
Add after 'disaster'.

Government of Bangladesh established a "Committee for
Flood Control and Drainage of Greater Dhaka" and approved
a major flood protection scheme in March 1989. Pending
assistance from donors and in view of the urgent need for
flood protection, the Government has undertaken some
flood protection works in the western part of the
metropolis (some 155 sq. km) involving construction of
embankment/flood wall, regulators, road raising etc. from
internal resources.

Page 2 last para 4th line after "studies" add "of the
International agencies"

Page 3 5th line from top
add after 'January 1990'

The ADB financed "Dhaka City Integrated Flood Protection
Project" (FAP-8B) includes 260 sqkm area covering current
DMA area and the area in its immediate vicinity
undergoing fast urbanization. It involves in the
preparation of a feasibility for priority investments not
covered under ongoing flood protection program comprising
embankment roads, pumping station/sluices and improvement
of drainage, slum areas, solid waste management and
sanitation. ADB study will take into account the
recommendations and conclusions of JICA master planning
for flood control and drainage as well as pilot
investment projects.

It is thus necessary that JICA assisted study will
maintain close contact with ADB study and vice versa and
the two teams will keep access for each other in their
findings through FPCO.

Page 7 2.2 1st line
add 'available' after 'All'

Sl.(1) 'Aerial, photographs in 1:50,000'

- Page 8 bottom
Add sl (10) Any other relevant studies
- Page 10
Add above the last three lines
- long term effect of the flood damage both quantifiable and unquantifiable
- Page 11 (3) preparation of Topo Maps, 8th line delete the remaining after "carried out"
4th para delete
- Page 11 (5) Survey for Environmental Aspects EIA based on mainly secondary data
Add after environmental aspects "including slums"
- Page 13 (1) Target year
target year will be 2020
- Page 13 4th & 3rd line from bottom rephrase as
"peak level of 1988 or storm with 100 year return period or any other appropriate return period.
- Page 20 Sl.(3) delete 'living' and insert 'impact' after 'Environmental'
- Page 20 End of Economic evaluation Para
Add "The study team will also consider the proposed special Economic Evaluation guide lines if available."
- Page 24 concerned agency may be replaced by 'GOB Study Team' with note on the compositions.
- Page 25 last para 2nd line delete 'together'
3rd and 4th line
delete and replace by "The GOB counterpart team will supervise, review, monitor and coordinate the study while the JICA expatriate and local consultants will implement the study as per agreed documents of scope of work and TOR. The schedule of GOB input is shown in Fig.5.
- Page 26 Final printing of Feasibility Report will be done in May'92 in Japan.
- Page 34 List of data to be collected (Add as may be available)
- Page 36 Sl.(8)
Add after "(O&M)" "flood protection and" delete "of"

Minutes of the Meeting
for
Greater Dhaka Protection Project
(Study in Dhaka Metropolitan Area)
of Bangladesh Flood Action Plan No. 8A
between JICA and FPCO on 20th December, 1990

The Advisory Committee of Japan International Cooperation Agency headed by Dr. Hiroyoshi Shiigai and the members of the Study Team on Greater Dhaka Protection Project: FAP 8A, discussed with the officials of Flood Plan Coordination Organization(FPCO), BWDB, DMC, RAJUK, DOE, DWASA, LGEB and SOB on a Draft Copy of Preliminary Review Report of the study from 19th Dec. 1990 to 20th Dec. 1990 in Dhaka, Bangladesh. A list of the personnel attended the discussion, are shown in Annex I.


Draft copy of Preliminary Review Report was submitted by the JICA Study Team to the meeting. Mr. H. TANAKA, the Team leader of JICA study Team, explained the outline of the report and stressed the importance on timely selection of master plan study area.

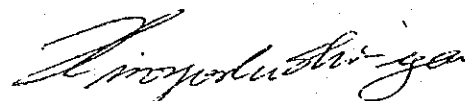
After discussions and comments, the draft report was received by FPCO. It was agreed by GOB counterpart team to furnish comments on the report by 23.12.90.

JICA will submit the final copy which will be made shortly with some changes incorporating the comments.

FPCO will send comments on this report to JICA collecting opinions of various Ministries and Agencies of GOB by the end of January, 1991.

This minutes of meeting has been signed on 20th December, 1990


5 / 20.12.90
A.M.M. NURUL HUQ
Chief Engineer
Flood Plan
Coordination Organization


Dr. HIROYOSHI SHIIGAI
Chairman
Advisory Committee
Japan International
Cooperation Agency

MEMBERS ATTENDED IN THE MEETING :

GOB TEAM

Name	Designation	Organization.
1. M.N.Huda	Chairman, Local Specialist Panel.	FPCO
2. Prof. M.A.Hannan.	Member, PoE	FPCO
3. Prof. Ainun Nishat	Member PoE	FPCO
4. Mr. A.M.M.Nurul Huq	Chief Engineer.	FPCO,
5. Mr. K.B.M.Shafiuddin.	S.E.	FPCO
6. Mr. Farhad Hussain.	Executive Engineer.	RHD
7. Mr. Emaduddin Ahmad	Executive Engineer	FPCO
8. Mr. Emdadul Islam	Executive Engineer	RAJUK
9. Mr. A.K.M.Halimur Rahman.	Executive Engineer.	BWDB.
10. Md. Harun	Executive Engineer.	BWDB
11. Mr. Abu Taleb Khandaker	Dy. Director.	DOE
JICA TEAM :		
1. Dr. Hiroyoshi Shiigai	Chairman Advisory Committee	JICA
2. Mr. Hidetomi Ol	Panel of Expert.	
3. Hiroshi Enomoto	Coordinator	JICA.
4. Mr. Hitoshi Baba	Embassy of Japan.	
5. Takeshi Naruse	Deputy Rep.	JICA Dhaka.
6. Mr. Hajime Tanaka	Team Leader	JICA Study Team
7. Toshiaki Tokumasu	Deputy Team Leader	-do-
8. Isao Misono	Member	-do-
9. J.R.Jones	Member	-do-

2
20.12.90

20.12.1990

Minutes of the meeting for Greater Dhaka Protection Project of Bangladesh Flood Action Plan No.8A between JICA and FPCO on 21st March, 1991.

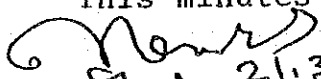
The Advisory Team of Japan International Co-operation Agency headed by Mr. HIDE TOMI OI and the members of the Study Team on Greater Dhaka Protection Project: FAP-8A, discussed with the officials of Flood Plan Co-ordination Organisation (FPCO) PoE(L&E), BWDB, RAJUK, UDD, DoE, RHD, HSD and consultants of FAP-8B on the Interim Report (summary and main report) of the study on 20th March and 21st March, 1991 in Dhaka, Bangladesh. A list of personnel attended the discussion meeting are shown in Annex-I.

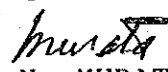
Interim Report was presented by Mr. Naohito MURATA, the Team Leader of JICA Study Team. He explained the main part of the report and pointed out the basic idea, standard and criteria for formulation of the Master Plan of the study area.

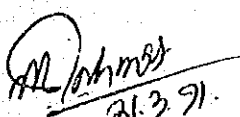
During discussions various points were raised on Interim report from representatives of various organisations, PoE(L&E) and consultants of FAP-8B. Finally it was agreed that comments from different Ministries & Agencies will be collected very soon, JICA Study Team will submit the final copy within a short time incorporating the comments received from GOB side.


GOB side pointed out that some of the members of the JICA Study Team should work in Bangladesh during April & May, 91. JICA Advisory Team informed that they will take up the matter with Head office in Tokyo.

This minutes of the meeting has been signed on 21st March, 1991.


(A.M.M. Nurul Huq)
Chief Engineer
Flood Plan Co-ordination
Organisation.


(N. MURATA)
Team Leader
JICA Study Team
Greater Dhaka Protection Project-8


Witness : (A.K.M. Halimur Rahman)
Superintending Engineer,
Flood Plan Co-ordination
Organisation.


Witness : (HIDE TOMI OI)
Member
JICA Advisory Team.

MEMBERS ATTENDED IN THE MEETING

<u>Name</u>	<u>Designation</u>	<u>Organisation</u>
1. M.N.Huda	Chairman, Local Specialist Panel	FPCO
2. A.M.M.Nurul Hug	Chief Engineer	FPCO
3. A.K.M.Halimur Rahman	Superintending Engineer	FPCO
4. Md.Abdu'r Rahman	Superintending Engineer	BWDB
5. Md.forhad Hussain	Executive Engineer	Roads & Highways Deptt.
6. Md.Emdadul Islam	Executive Engineer	RAJUK.
7. Joynul Abedin Khan	Executive Engineer	Housing & Settlement Directorate.
8. M.Anwarul Islam	Deputy Director	Deptt.of Environment
9. Alauddin Ahmed	Deputy Director	URBAN DEV.DTE.
10. J.Dempster	Chairman, Panel of Experts(expatriate)	FPCO
11. Van Ellen	Panel of Experts(E)	FPCO
12. Dr.Ainun Nishat	Panel of Experts(L)	FPCO
13. Dr.M.S.Zaman	Institutional Specialist	FPCO/UNDP
14. Mr.Emdad Ali	Local Consultant	FPCO
15. Nurul Absar	Local Consultant	FPCO
16. Md.Badiuzzaman	Morphological Engineer Local Consultant	FPCO
17. Dr.Asad Ali Shah	Sr.Urban Dev.Specialist	Asian Dev.Bank
18. R.D.Berlin	Team Leader, FAP-8B	Louis berger Inter-national Inc.
19. Max Williams	Hydraulic Engineer, FAP-8B	"
20. Shaheedul Islam	Flood Control, Planning Engineer FAP-8B.	"

JICA TEAM

1. HIDETOMI OI	Advisory Team	JICA
2. HIROSHI ENOMOTO	Coordinator	JICA
3. TAKESHI NARUSE	Deputy Representative	JICA Dhaka office
4. N.MURATA	Team Leader	JICA STUDY Team, FAP-8A
5. T.Tokumasu	deputy Team Leader	do
6. I.MISONO	Flood Prevention Engr.	do
7. N.Ishibashi	Socio-Economist	do
8. Dr.S.Jayamohon	Environmental Engineer	do

Minutes of the Meeting
for
Greater Dhaka Protection Project
(Study in Dhaka Metropolitan Area)
Of Bangladesh Flood Action Plan No. 8A
Between JICA and FPCO on 28th July, 1991.

The Advisory Committee of Japan International Cooperation Agency, headed by Dr. Hiroyoshi Shiigai and the members of the study team on Greater Dhaka Protection Project, FAP 8A, discussed with the officials of Flood Plan Co-ordination Organization (FPCO), POE(L), BWDB, RAJUK, DCC, DOE, HSD, RHD, LGEB, WORLD BANK AND Consultants of FAP-8B, Dhaka Integrated Flood Protection Project, the copy of Draft Master Plan (summary, main report and supporting report) of the study on 28th July 1991 in FPCO office, Dhaka, Bangladesh. A list of the personnel attended the discussion are shown in Annex I.

A draft copy of the draft Master Plan Report was submitted by the JICA study team to the meeting. Mr. Hajime Tanaka, the team leader of the JICA study team, explained the outline of the Master Plan and priority areas for the Feasibility Study. During the discussion some observation were made by the participants. The JICA study team will submit the Draft Master Plan by the 1st week of August, 1991 after incorporating the comments made during the discussion.

FPCO will collect the additional comments of various ministries and agencies of GOB and send them to JICA by the end of August, 1991.

During the discussion GOB expressed its satisfaction to Draft Master Plan in principle and the following points were raised:

1. The JICA study team have proposed the priority areas as follows:

1st Priority Area:

- Greater Dhaka West
- Greater Dhaka East
- Narayanganj DND
- Narayanganj West.

2nd Priority Area:

- Tongi
- Keranigonj

3rd Priority Area:

- Narayanganj East
- Savar

The JICA study team recommended Greater Dhaka East and DND for the F/S areas, as the priority area of Dhaka West has been taken by ADB financed consultants, FAP 8B.

GOB, however, requested the inclusion of Narayanganj West and Kamrangir Char for the F/S areas instead of DND.

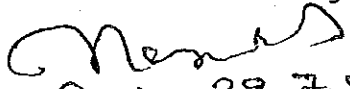
The JICA study team expressed their opinion that Kamrangir Char belongs to the side of Greater Dhaka West area, and that appropriate data on both Narayanganj West and Kamrangir Char are not fully available for feasibility study. The JICA study team still recommends DND instead of Narayanganj West and Kamrangir Char for the F/S area. However this will be finalised after August, 1991.

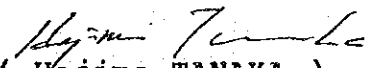
2. Although DOE requested a full scale EIA in the F/S, the JICA study team expressed its difficulties to prepare a full scale EIA for the F/S, because it is beyond the scope of works agreed upon between GOB and JICA, and also not planned in the Inception Report (FAP 8A).

The JICA study team, however, expressed that the F/S will cover assessment of environmental impacts based on the secondary data.

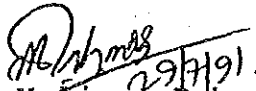
3. The necessity of more detailed information supplied from FAP 8B to FAP 8A was confirmed. The Plan proposed by FAP 8B in its Interim Report No.-I is confirmed in the draft Master Plan.
4. Importance of continuous presence of the JICA study team in Dhaka was stressed by GOB side.
5. Possibility of more intensive use of local consultants was also stressed by GOB side.

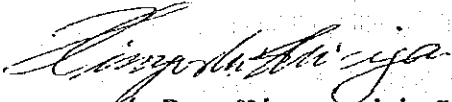
The minutes of the meeting was signed on 29th July, 1991.


(A. M. M. Nurul Haq)
Chief Engineer,
Flood Plan Coordination
Organization.


(Hajime TANAKA)
Team Leader,
JICA Study Team
Greater Dhaka Protection Project

Witness


(A. K. M. Hafimur Rahman)
Superintending Engineer
Flood Plan Coordination
Organization


(Dr. Hiroyoshi SHIIGAI)
Chairman
Advisory Committee
Japan International
Cooperation Agency.

MEMBERS ATTENDED IN THE MEETING

Sl. No.	Name	Designation	Organisation
1.	M. N. Huda	Chairman, Local Specialist Panel	FPCO
2.	A. M. M. Nurul Huq	Chief Engineer	FPCO
3.	A. K. M. Halimur Rahman	Superintending Engineer	FPCO
4.	Md. Masud Ahmed	Sub-Divisional Engineer	FPCO
5.	Md. Abdur Rahman	Superintending Engineer	BWDB
6.	Md. Yusuf Harun	Executive Engineer	BWDB
7.	Md. Mehdi Ali Khan	Superintending Engineer	D.C.C
8.	Emdadul Islam	Executive Engineer	RAJUK
9.	Md. Forhad Hussain	Executive Engineer	RHD
10.	M. Anwarul Islam	Deputy Director	DOE
11.	Joynul Abedin Khan	Executive Engineer	HSD
12.	Abdullah	Sub-Divisional Engineer	HSD
13.	Ross Wallace	Co-ordinator	World Bank
14.	Max Williams	Acting Project Manager FAP-8B	Louis Berger International Inc.

JICA TEAM

1.	Dr. Hiroyoshi Shiigai	Chairman,	JICA,
2.	Motohauce Sekizawa	Advisory Committee	Tokeyo
3.	Hiroshi Enomoto	Advisory Committee	JICA,
4.	Hajime Tanaka	Co-ordinator	Tokyo
5.	Toshiaki Tokamasu	Team Leader	JICA,
6.	N. Ishibashi	Deputy Team Leader	Tokyo
7.	I. Misono	Socio-Economist	JICA
8.	J.R. Jones	Flood Prevention Engineer	StudyTeam
		Urban Planner	JICA
			Study Team
			JICA
			StudyTeam

