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**FINAL REPORT**

**USAID CONTRACT NO. 388-0050-C-9054-02**

**UPAZILA FAMILY PLANNING STOREROOM  
CONSTRUCTION PROJECT IN BANGLADESH**

**SUBMITTED TO:**

**PPC/CDIE/DI  
ACQUISITIONS  
ROOM #209, SA-198  
AGENCY FOR INTERNATIONAL DEVELOPMENT  
WASHINGTON, D.C. 20523-1802**

**PREPARED BY LARSEN ENGINEERS, INC.**

**JUNE, 1991**



**LARSEN  
ENGINEERS INC.**

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# LARSEN ENGINEERS, INC.

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Dhaka, Bangladesh  
Ahmedabad, India

June 28, 1991

USAID/DHAKA  
G.P.O. Box 2593  
Dhaka, Bangladesh

Attn: Miss Alvera Sweet  
Contracting Officer

Ref: USAID Contract #388-0050-C-9054-02  
SBA Contract #3-89-1-4227  
Upazila Family Planning Storeroom Construction Project  
in Bangladesh (Final Report)

Dear Miss Sweet:

In accordance with our contract dated February 8, 1989, USAID letters #370 dated April 8, 1991 and June 12, 1991 and per USAID guidelines established under FAR #752.7026 dated February 25, 1991 (see attached), Larsen Engineers, Inc. is pleased to submit FINAL REPORT for the above referenced project.

Per instructions given in FAR #752.7026 dated February 25, 1991, this report has been addressed to PPC/CDIE/DI ACQUISITIONS with the following copy distribution:

- 3 copies to the Contracting Officer at USAID/DHAKA
- 4 copies to the Project Officer at USAID/DHAKA
- 2 copies to the Bureau for Program and Policy Coordination at USAID/Washington

We request your comments and/or concurrence to our submittal as soon as possible. Should you need additional copies, please advise us accordingly.

Thank you for giving us an opportunity to work with USAID/DHAKA for this project.

Sincerely,  
LARSEN ENGINEERS, INC.

Manu B. Patel, P.E.  
President

Page No. 14-146	Effective Date Feb. 25, 1991	Trans. Memo. No. 14:105	AID HANDBOOK 14
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REPORTS (OCT. 1989)

(a) Reports required. The Contractor shall prepare the following reports:

(1) A semi-annual, substantive report submitted within 45 days of the end of the period being covered, covering the status of the work under the contract, indicating progress, setting forth plans for the ensuing period, and including recommendations covering the current needs in the fields of activity covered under the terms of this contract.

(2) (This paragraph (a)(2) is applicable to cost reimbursement contract only.) A semi-annual, administrative report submitted within 45 days of the end of the period being covered, covering expenditures by contract budget category, personnel employed under the contract, and foreign nationals being trained under the contract (if any).

(3) A final report which summarizes the accomplishments of the assignment, methods of work used, and recommendations regarding unfinished work and/or program continuation. The final report shall be submitted within 60 days after completion of the work hereunder unless required date of submission is extended by the Contracting Officer.

(4) Any other reports specified in the Schedule of this contract.

(b) Distribution of reports. Copies of reports required under paragraph (a) shall be distributed as follows:

(1) 3 copies to the Contracting Officer;

(2) 4 copies to the Project Officer; and

(3) 2 copies to the Bureau for Program and Policy Coordination, Center for Development Information and Evaluation, Development Information Division, addressed as follows: PPC/CDIE/DI, ACQUISITIONS, Room 209, SA-18, Agency for International Development, Washington, DC 20523-1802.

(c) General. (1) The title page of all reports shall include a descriptive title, the author's name(s), contract number, project number and title, contractor's name, name of the AID project office, and the publication or issuance date of the report.

(2) When preparing reports, the contractor shall refrain from using elaborate art work, multicolor printing and expensive paper/binding, unless it is specifically authorized in the Contract Schedule. Wherever possible, pages should be printed on both sides using single spaced type.

752.7027 Personnel.

For use in all AID contracts involving performance overseas. Note that paragraphs (f) and (g) of this clause are for use only in cost reimbursement contracts.

\*

**FINAL REPORT**

**USAID CONTRACT NO. 388-0050-C-9054-02**

**SBA CONTRACT NO. 3-89-1-4227**

**FOR**

**UPAZILA FAMILY PLANNING STOREROOM  
CONSTRUCTION PROJECT AT BANGLADESH**

**PREPARED BY**

**ROBERT H. BARTOLO  
CHIEF OF PARTY  
LARSEN ENGINEERS, INC.**

**JUNE 1991**

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1. PREFACE

This report is a final report for USAID Contract Number 388-0050-C-9054-02 on The Upazila Family Planning Storeroom Construction (UFPSC) Project in Bangladesh.

The contents of this report summarize LEI's assignment accomplishment, recommendations and contract responsibilities in general coupled with project's unfinished work and expenditures required for UFPSC from February 8, 1989 to April 30, 1991.

2. PROJECT

Upazila Family Planning Storeroom Construction Project (UFPSC).

2.1 Project Description

This project involved the construction of family planning storerooms within the existing Upazila Health Complexes. Upazila Health Complexes exist in 347 of the 464 Upazilas in Bangladesh and part of the complex is being used by family planning workers to provide family planning service to local communities.

3. PROJECT OBJECTIVES

The objective of the USAID funded UFPSC project is to construct as many storerooms as possible by April, 1991, to an acceptable standard which qualify for reimbursement to the Government of Bangladesh (GOB).

In order to achieve the project objective, the construction management cell (CMC) of the Ministry of Health and Family Planning (MOHFP) was vested with the responsibility of being the implementing agency for management and supervision of the construction activities with technical and construction management, with required assistance to be provided during construction of the storerooms. Accordingly, USAID/DHAKA executed a contract with Larsen Engineers, Inc. (LEI) to provide technical and construction management assistance to CMC, and to design and monitor the construction of the family planning storerooms.

#### 4. LEI CONTRACT RESPONSIBILITY

In accordance with LEI's contract with USAID, LEI was to provide technical and construction management assistance to CMC during implementation of the construction of all family planning storerooms constructed during the project period and to ensure that the following tasks were accomplished.

##### 4.1 Planning

Planning Activities for the Project Include:

- A. Project Phasing Plan.
- B. Selection of sites for the family planning storerooms within existing Upazila Health Complex.
- C. Surveying the selected sites (and alternate sites where necessary).
- D. Conduct soil tests to determine foundation bearing capacity, of soil on selected sites and from available secondary information of soil on the remaining sites.

##### 4.2 Design

Design Activities for the Project Include:

- A. Design prototype storerooms taking into account flood, wind, soil bearing capacity, maintenance, and other relevant conditions.
- B. Adapt applicable prototype designs to specific sites.
- C. Develop site plans incorporating building information and specific site information.

##### 4.3 Construction Documents

- A. Construction documents consisting of:
  - 1. Instruction to tenderers;
  - 2. Conditions of contract;
  - 3. Form of tender;
  - 4. Form of agreement;
  - 5. Technical specification;
  - 6. Schedule of items of works;
  - 7. Drawings.

#### 4.4 Construction Monitoring

- A. Monitor the quality of construction on a scheduled basis as well as on surprise visit basis.
- B. Monitor the construction supervision performed by CMC Engineers.
- C. Issue certificates of acceptance for storerooms that are completed and conform with the plans and specifications for USAID reimbursement.

The accomplishment of LEI's contract responsibilities are discussed hereunder.

### 5. ACCOMPLISHMENT OF LEI'S RESPONSIBILITIES

#### 5.1 Planning

##### A. Project Phasing Plan

- a. By June 1989, LEI developed a Project Phasing Plan for site selection, survey, design and construction activities (See Plate I). The construction of 12 storerooms (Phase I) were programmed to start in August, 1989 to serve as a pilot program for streamlining the administrative, technical, financial and logistical procedures. These were to be constructed ahead of the first major construction cycle. The first major construction cycle was to start in November, 1989. It was envisioned that the construction of 210 storerooms would be completed by April, 1991.

The project construction program did not start in August, 1989 because the funds for the construction of the storerooms were not released by the GOB until February 1990. Thus:

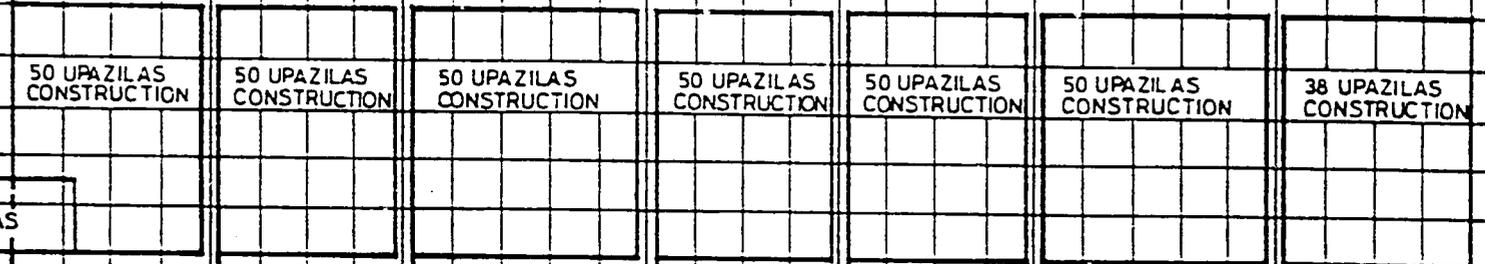
- b. In April, 1990 a new project phasing plan, for the anticipated construction completion of 127 storerooms was developed considering the time remaining between the start of construction (May 5, 1990) and the end of contract period (April 30, 1991) (See Plate II).

# UPAZILA FAMILY PLANNING STOREROOM CONSTRUCTION PROJECT-PHASING DIAGRAM

1989 J F M A M J J A S O    1989 N D    1990 J F M A M J J A S O    1990 N D    1991 J F M A M J J A S O    1991 N D    1992 J F M A

CURRENT PROJECT TIME LIMIT    \* 7 MONTH EXTENSION \*    FUNDING REQUIRED →

PHASE-2    PHASE-3    PHASE-4    PHASE-5    PHASE-6    PHASE-7    PHASE-8



PHASE-1 P/D/C.D TENDER

PHASE-2 PLAN/DES./C.D TENDER

PHASE-3 PLAN/DES./C.D TENDER

PHASE-4 PLAN/DES./C.D TENDER

PHASE-5 PLAN/DES./C.D TENDER

PHASE-6 PLAN/DES./C.D TENDER

PHASE-7 PLAN/DES./C.D TENDER

PHASE-8 PLAN/DES./C.D TENDER

- c. In August, 1990, the April, 1990 Project Phasing Plan (Plate-II) for the construction activities needed to be revised due to the following adverse contributing factors:
1. For Phase I construction only 20 of the 26 storerooms were under construction.
  2. The majority of storerooms in the first construction phase could not be completed as per schedule.
  3. Contractors started construction late, thus 2 sites could not proceed due to rainy season.
  4. CMC could not provide full time construction for required supervision in a timely manner.
  5. The Phase II construction needed to be reprogrammed for the month of November/December, 1990.

PLATE-III shows the August, 1990 Revised Phasing Plan. With this revised phasing plan we anticipated construction completion of 52 storerooms by end of contract (April 30, 1991).

PHASE	TIME	NO. OF SITES	DIVISION
1	May 1990 to August 1990	26	Dhaka
2	Sept. 1990 to Dec. 1990	26	Dhaka
		25	Khulna
3	Jan. 1991 to April 1991	25	Khulna
		25	Rajshahi

CONSTRUCTION PHASING PLAN  
for period  
May/90 to April/90

### PLATE-II

PHASE	TIME	NO. OF SITES	DIVISION
1	May 1990 to Oct./Nov. 1990	18	Dhaka
2	Dec. 1990 to March 1991	34	Dhaka

Total                      52

REVISED  
CONSTRUCTION PHASING PLAN  
For Period  
May/90 to April/91

**PLATE-III**

- d. On October 29, 1990, CMC's Chief Engineer requested LEI to revise (up date) the project construction building cost estimate as well as that of the Fixed Amount Reimbursement (F.A.R.) based on the following considerations:
1. Prevailing average market rate of construction materials and labor.
  2. Project extension to June 1992.
  3. 210 storerooms constructed by June 1992.
  4. Local consultant to provide CMC with full time staff for construction supervision.

To update the project construction building cost, LEI developed a project phasing plan (See Plate-IV) taking into account the above considerations and the adverse contributing factors observed during the on going Phase-I construction activities.

# UPAZILA FAMILY PLANNING STOREROOM CONSTRUCTION PROJECT-PHASING DIAGRAM

1989		1990												1991					1992																	
O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A		
PHASE 1												PHASE 2					PHASE 3					PHASE 4					PHASE 5									
18												34					50					54					54									
UPAZILA STOREROOM												UPAZILA STOREROOM					UPAZILA STOREROOM					SITE SELECTION & SURVEY FOR PHASE 4 PHASE 5					UPAZILA STOREROOM					UPAZILA STOREROOM				
CONST. ON GOING																																				
												MAINTENANCE PERIOD																								
PLAN/DES/C.D/SI.SL/N/S.VY/S.T/TENDER																	MAINTENANCE PERIOD																			
												PLAN/DES/C.D/S.SL/N/S.VY/S.T/TENDER										MAINTENANCE PERIOD														
																	PLAN/DES/C.D/S.T/TENDER										MAINTENANCE PERIOD									
																						PLAN/DES/C.D/S.T/TENDER					MAINTENANCE PERIOD									
																												TO DEC /92								
LARSEN ENGINEERS INC. DHAKA.																																				

**PLATE-IV**

e. The Revised Phasing Plan (Plate-III) prepared in August, 1990, needed to be modified several times because during the time period from November 1990 through March 1991 we experienced the following adverse contributing factors beyond LEI's control:

1. The majority of the storerooms in the first construction phase could not be completed as targeted.
2. CMC could not provide full time Construction Engineers for supervision due to their heavy commitment on other projects.
3. Government of Bangladesh (GOB) funds were not available to pay the Contractors during the period of July through November 1990.
4. CMC had not engaged a Local Consulting Engineering Firm to provide full time Construction Supervision for Phase-II Construction and for Subsequent Phases if project would have been extended.
5. Frequent Hartals (strikes) called by political parties and curfews were imposed by GOB during the months of December 1990 and January 1991.
6. The outbreak of the Gulf War in January 1991 which required C.O.P. of LEI to return to Washington, D.C. (January 22 to March 22, 1991)

The revised project phasing plan for the construction activities which was revised in March 1991 is shown in Plate-V including Phase-I construction (18 storerooms) which was anticipated for completion.

PHASE	TIME	NO. OF SITES	DIVISION
1	May 1990 to May 15, 1991	18	Dhaka
2	May 16, 1991 to Sept. 15, 1991	34	Dhaka
Total		52	

REVISED  
CONSTRUCTION PHASING PLAN  
For Period  
May/90 to Sept./91

**PLATE V**

## B. Site Selection

Site selection involved LEI and CMC representatives to visit the Upazila Health Complexes, to inspect alternate sites, collecting technical information and hold discussions with:

1. Upazila Chairman
2. Health and Family Planning Officer
3. Family Planning Officer

During LEI's contract period, February 8, 1989 to April 30, 1991, LEI completed site selection for 134 sites by July 31, 1990. Out of these, 123 sites were suitable for construction of Family Planning Storerooms.

## C. Site Survey

The site survey was required to present and locate accurately existing buildings, septic tanks, utilities, roads, contours and other information that will affect the location of the Family Planning Storerooms.

Site survey for 162 locations were completed by July 31, 1990.

## D. Soil Test

To determine bearing capacity, essential soil data were obtained by conducting soil tests on at least 1 out of every 5 sites and from available secondary information on the remaining sites.

Soil test for 12 sites in Dhaka Division were completed by June, 1989.

During LEI's contract period, Family Planning Storerooms were constructed only in Dhaka Division, thus no additional soil tests were required.

## 5.2 Design

### I. Design Prototype Storerooms

For this project, LEI developed and presented six basic building types for the proposed Family Planning Storerooms.

CMC and USAID selected and approved four of the six basic building types and instructed LEI to proceed for the design and development of the required construction drawings.

The four building types are shown in PLATE VI.

<p style="text-align: center;"><u>Type 1</u></p> <p style="text-align: center;">Non Flood Low Flood Low Wind</p>	<p style="text-align: center;"><u>Type 3</u></p> <p style="text-align: center;">Flood Low Wind</p>
<p style="text-align: center;"><u>Type 2</u></p> <p style="text-align: center;">Non Flood Low Flood High Wind</p>	<p style="text-align: center;"><u>Type 4</u></p> <p style="text-align: center;">Flood High Wind</p>

STOREROOM BUILDING TYPE  
CRITERIA (FLOOD AND WIND)

**PLATE-VI**

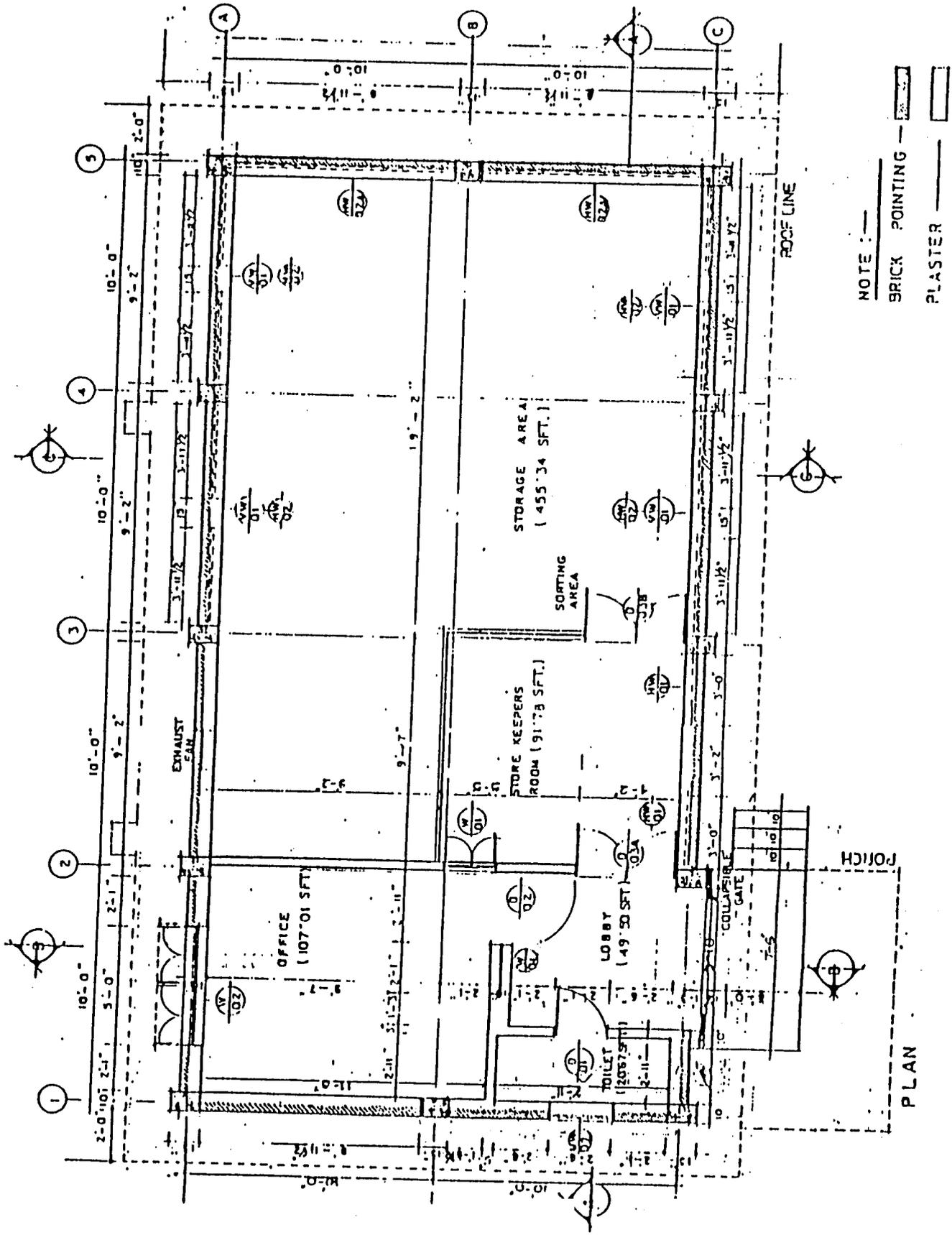
The approved typical floor plan for the Upazila Family Planning Storeroom is shown on Figure 1.

The four types of building were designed in consideration with geographical and climatic conditions with possible future construction if needed, by having an additional floor.

Within each type of building, there were modifications depending on the soil reports, access to the site, available space and provision for loading and unloading, existing contours and drainage limitation as well as sewage disposal facility requirements within the parameters of the existing site.

The design of buildings were completed by June 30, 1990 for all buildings.

In order to provide better rain protection for truck loading and unloading CMC chief engineer requested to LEI to modify the size of the porch overhang slab (by increasing the front by 8 inches and one side by 2 feet). Accordingly, during the month of May/June



NOTE :  
 BRICK POINTING — [hatched pattern]  
 PLASTER — [unfilled box]

PLAN

FIGURE-I

1990, LEI completed the design and construction drawings for the modified porch overhang slab and on October 1, 1990, these drawings for buildings Type 1, 2, 3 and 4 were approved by CMC chief engineer. The construction drawings for storerooms facilities in Phase-II construction and in subsequent construction phases also incorporated modified porch overhang slab.

## II Adapt Applicable Prototype Design to Specific Sites

Out of the four building types, only two (type 1 and type 3) are applicable for Phase-I and Phase-II construction. The task of site adaption for 52 sites in Phase-1 and Phase-2 is complete.

The list of Upazilas and applicable building types for the 18 sites under Phase 1 construction (16 sites in Dhaka Division and 2 sites in Chittagong Division) is shown in Appendix-1.

The list of Upazilas and applicable building types for the 34 sites planned for Phase 2 construction (31 sites in Dhaka Division and 3 sites in Chittagong Division) is shown in Appendix-2.

The task for Phase 3 construction (total 50 sites) is complete. Type 1, 2 and 4 buildings are applicable.

The list of Upazilas and applicable building type for the 50 sites (in Khulna Division) under Phase 3 construction is shown in Appendix 3.

## III Develop Site Plans

LEI completed the required site plans for:

Phase 1 Construction (16 sites in Dhaka Division and 2 sites in Chittagong Division).

Phase 2 Construction (31 sites in Dhaka Division and 3 sites in Chittagong Division).

Phase 3 Construction (50 sites in Khulna Division)

Each site plan indicates building information and specific site information.

### 5.3 Construction Documents

The construction documents includes the following:

1. Instruction to Tenders
2. Conditions of Contract
3. Form of Tender
4. Form of Agreement
5. Technical Specifications
6. Schedule of Items of Work
7. Construction Drawings

The construction documents were developed and completed by LEI for the storerooms to be constructed under:

Phase 1 Construction - 18 Sites

Phase 2 Construction - 34 Sites

### 5.4 Project Construction Stage

The project construction program started on May 5, 1990 with the expectation of completing the construction of 127 storerooms by end of contract period. (April 30, 1990) (See Plate-II).

#### a. Construction Supervision and Monitoring Responsibilities

On this project, CMC was responsible for construction supervision of The Family Planning Storerooms constructed by local contractors and LEI was responsible for monitoring the construction of The Family Planning Storerooms.

LEI developed two documents:

1. Construction Management
2. Monitoring Check List

These documents have been developed for effective supervision and monitoring.

#### b. Project Construction Status

By end of LEI contract, April 30, 1991, Phase I Construction (18 Sites) was nearly complete.

During the month of March, 1991:

-13 of 18 storerooms construction were complete. On April 4, 1991 CMC informed LEI that 8 of the 13 storerooms were completed as per specification and requested LEI to concur. Because LEI was in the

process of contract close out, (April 30, 1991) the procedure required by LEI to certify indicating that the storerooms were completed as per construction and specifications, did not take place.

-The construction of 4 out of 18 storerooms were at finishing stages and were expected to be completed by end of March, 1991.

-The construction of 1 out of 18 storerooms was yet to start for finishing work which was expected to be completed by mid May, 1991, thus:

Phase-I construction will not finish until mid May, 1991. Therefore, Phase 2 construction which was scheduled to start in December, 1990, will have to be re-programmed for mid May, 1991. Due to this delay Phase 2 construction could be completed by the middle of September, 1991.

From lesson learned during the construction of the storerooms in Phase 1, we conclude that Phase 4 construction ended up being the pilot phase for the project.

## 5.5 Construction Monitoring

### A. Monitor The Quality of Construction on a Scheduled Basis as well as on Surprise Visit Basis

Site visits by LEI for monitoring Phase-I construction activities are shown in Appedix 1 "Monitoring Report for Phase 1 Construction". The monitoring report covers the period from the start of construction, May 5, 1990 to March 31, 1991 and is based on the construction monitoring check list documents developed by LEI.

The quality of construction varies from site to site. For Phase-I construction, the quality of work at three sites is good and in general acceptable at the remaining sites.

### B. Monitor the Construction Supevision Performed by CMC Engineer

CMC engineers were responsible for construction supervision in Phase-I on this project.

As CMC engineers were already committed to other projects, they could only be available on a "part time" basis for construction supervision on this project.

As a result of insufficient supervision by CMC engineers, the construction was delayed. The supervising engineers were not available at some critical times such as at the time of pouring concrete and the contractor could not proceed without clearance from the CMC engineer. In several cases concrete cylinder tests were not performed.

To overcome this lack of sufficient construction supervision staff, USAID agreed to find a contract with a local engineering firm to provide additional construction supervision engineers to CMC exclusively for this project. LEI assisted CMC in the selection process. However, due to the Gulf War excavation, this program could not be implemented.

C. Issue Certificates of Acceptance for Storerooms that are Completed and Conform with the Plans and Specification for USAID Reimbursement

For this task, LEI kept a file for each storeroom under construction. Each file has all the relevant documents ready, either for the purpose of:

- a. Notify USAID, as soon as LEI determines that a particular storeroom cannot qualify for reimbursement under the FAR.

Or to:

- b. Issue certificates of acceptance for storerooms that are completed and conform with the plans and specification for USAID reimbursement.

LEI did not issue any certificate of acceptance. Out of 18 storerooms in Phase-I, construction of 13 were completed by the first week of April 1991. However, during April 1991, LEI was in the process of closing out and was unable to conduct the detailed inspection necessary to determine acceptability.

6. PROJECT CONSTRUCTION COST ESTIMATE

During November 1990, LEI revised the project construction cost estimate as per CMC Chief Engineer's request on October 29, 1990.

In order to revise the project building construction cost estimate, LEI carried out the following:

- a. Revise the estimated construction materials quantities for each type of building.
- b. Up date market rate of construction materials and labor based on October 1990 price level.
- c. Revise the analysis of rates, as per Bangladesh Government published procedure, for civil work, sanitary and water supply works and electrical works.
- d. Revise cost estimate of each building type.
- e. Determine revised Fixed Amount Reimbursement.
- f. Develop project construction phasing program.
- g. Determining type and number of storerooms in each construction phase.

Below is a summary of the suggested revised Fixed Amount Reimbursement (FAR) per storeroom building type.

Storeroom Building Type	FAR Unit Cost For Financial Year*		
	Present	Suggested	Suggested
	1989/90	1990/91	1991/92
1	493,512	622,704	684,974
2	501,196	637,522	701,275
3	610,005	789,249	868,174
4	630,302	811,665	892,832

Note:

- \* Financial year (F.Y.)-----July 1st to June 30th.  
 FAR cost for F.Y. 1989/90 is based on July 1989 Govt. Published rate.  
 FAR Unit Cost for F.Y. 1990/91 is based on October 1990 market price.  
 FAR Unit Cost for F.Y. 1991/92 is based on October 1990 market price plus 10% inflation.

See Appendix 5 for details of FAR calculations.

Below is the project construction building cost estimate for 210 storerooms considering the revised fixed amount reimbursement (FAR) storeroom building type.

PHASE	NO. SITE	REMARKS	ESTIMATED COST TAKA
1	18	For Financial Year 1989/90	92,32,695
2 & 3	84	For Financial Year 1990/91	5,52,50,985
4 & 5	108	For Financial Year 1991/92	8,16,50,404
Total	210		14,61,34,084

Note:

Phase 1 total construction cost based on present FAR for Financial Year 1989/90/.

Phase 2 & 3 total construction cost based on suggested FAR for Financial Year 1990/91.

Phase 4 & 5 total construction cost based on suggested FAR for Financial Year 1990/92.

See Appendix 6 for details.

7. RECOMMENDATION REGARDING PROJECTS UNFINISHED WORK

1. Remaining Storerooms to be Completed

The construction of Family Planning Storerooms should continue so as to achieve the target of 210 storerooms constructed under this project.

Reasons: Bulk of the preparatory work is complete: prototype design, site selection and survey

2. Construction Phasing Plan

Future construction phasing plan may be developed taking the following into consideration:

- a. Fix Amount Reimbursement System: GOB funds appears not to be available to pay the contractors from end of June through October/November.
- b. Good/Suitable Construction Period: Rainy season in Bangladesh is between the beginning of July and the end of October. Therefore, construction period can start in early November and end in late June.

- c. Availability of Constructin Material (Bricks):  
Approximately 40,000 bricks are required for the construction of one Family Planning Storeroom. Bricks in Bangladesh are produced and available during the period of December to May. Thus, in the planning stage no brick related construction activities should take place between the months of July and November.

See Plate-VII

3. Project Funding

Direct funding by USAID could have been more efficient than Fix Amount Reimbursement (F.A.R.) System. In our experience flow of funds from GOB was not available on a regular basis. FAR is an indirect system and does not have any control or means to govern GOB funding policy.

4. Project Supervision

We observed that the major deficiency in the smooth and timely implementation of the project was the lack of proper full time construction supervision.

To achieve the objectives of this project and to avoid delays in the program it is imperative that full time construction supervision staff is provided.

## UPAZILA FAMILY PLANNING STOREROOM CONSTRUCTION PROJECT-PHASING DIAGRAM

BASIS OF CONSTRUCTION : 2 CYCLES A YEAR

ITEMS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	REMARKS
GOVT. FUND AVAILABLE FOR DEVELOPMENT PROJECT													
GOOD/SUITABLE CONSTRUCTION PERIOD													
AVAILABILITY OF GOOD BRICKS													

- NOTE:
- Construction cycle one: December 1 - March 31
  - April - Transition period from one phase to another
  - Construction cycle two: May 1 - August 31
  - September 1 - November 30: Transition and maintenance period.  
Preparation for next construction cycle.

8. EXPENDITURE SUMMARY

LEI/SBA/USAID contract originally signed on 2/8/89 having a total estimated budget of \$885,790.00 plus a fixed fee of \$71,280.00 totalling \$930,070.00 with the following details:

Salaries and Differential	\$124,050.00
Overhead	161,265.00
Allowances	48,275.00
Travel and Transportation	42,700.00
In-country Office Expenses	76,500.00
Local Salaries	162,000.00
Local Transportation	171,500.00
Other Direct Costs	<u>72,500.00</u>
SUBTOTAL	\$858,790.00
Fixed Fee	<u>\$ 71,280.00</u>
TOTAL ESTIMATED COST PLUS FIXED FEE	\$930,070.00

At the initial stage, the obligated amount to contract performance established was \$600,000.00 which was anticipated to be sufficient through March 1, 1990 (approximately one year).

On June 24, 1990, an amendment was issued adding \$348,071.00 to existing contract amount of \$600,000.00 totaling \$948,071.00 including fixed fee. The modified budget with this modification has the following itemized detail:

<u>Budget Line Item</u>	<u>Estimated Cost</u>
Salary and Differential	\$156,438.00
Overhead	209,860.00
Allowances	48,545.00
Travel and Transportation	96,352.00
In-County Office Expenses	65,081.00
-Local Salaries	137,810.00
Local Transportation	84,600.00
Other Direct Costs	<u>63,197.00</u>
SUBTOTAL	\$861,883.00
Fixed Fee	<u>\$ 86,188.00</u>
TOTAL ESTIMATED COST PLUS FIXED FEE	\$948,071.00

The total funds expended as of April 30, 1991 are as follows:

LINE ITEM	BUDGET	TOTAL	BALANCE
Salaries and Differential HEAD OFFICE SUPPORT	156,438.00	178,250.21	(21,812.21)
Overhead	209,860.00	241,276.69	(31,416.69)
Allowances	48,545.00	56,183.61	( 7,638.61)
Travel, Transportation, Telephone & Telex	96,352.00	76,330.78	20,021.22
In Country Office Expense	65,081.00	53,350.91	11,730.09
Local Salaries	137,810.00	107,953.13	29,856.87
Local Transportation	84,600.00	60,339.24	24,260.76
Other Direct Cost	63,197.00	24,930.07	38,266.93
SUB TOTAL	861,883.00	798,614.64	63,268.36
FIXED FEE	86,188.00	71,565.01	14,622.99
TOTAL	948,071.00	870,179.65	77,891.35
AMOUNT RECEIVED FOR INVOICE 1 to 28		(779,365.31)	
INVOICED AMOUNT NOT YET RECEIVED		90,814.34	

A post contract expenditure for essential services such as contract closing, pending utilities payment, travel and final report preparation, etc. has been estimated up to \$30,000 + through July 31, 1991. In addition to this various disputed items have not yet been refunded by USAID throughout the contract period from 2/8/89 through 4/30/91 which amounts to \$36,051.20 from Invoice #1 through Invoice 328. This total disputed amount of \$79,545.41 is pending for USAID determination.

As a summary:

Authorized budget including fixed fee	\$948,071.00
Expended amount up to 4/30/91	<u>870,179.65</u>
Balance as of 4/30/91	\$ 77,891.35
Post contract expenditures up to 7/31/91	<u>- 30,000.00+</u>
Balance	\$ 47,891.35

The balance of \$47,891.35 is nearly committed to this contract. All pending expenditure commitments will be cleared through July 31, 1991 leaving a surplus budget of \$47,000± which is projected over the life of the contract.

**APPENDIX 1**

**UPAZILA FAMILY PLANNING STOREROOM CONSTRUCTION PROJECT**

**PHASE 1 CONSTRUCTION**

**LIST OF UPAZILAS AND BUILDING TYPE**

UPAZILA FAMILY PLANNING STOREROOM CONSTRUCTION PROJECT.

PHASE 1 CONSTRUCTION

## List of Upazilas &amp; Building Type

DHAKA DIVISION

<u>Sl.No.</u>	<u>Upazilas</u>	<u>Building Type</u>	<u>Remarks</u>
1.	GAZARIA	1	
2.	SONARGAON	1	
3.	SREEPUR	1	
4.	KALIAKOIR	3	
5.	* DHAMRAI	1	Contractor did not accept counter offer by CMC.
6.	SHIBALAYA	1	
7.	MODHUPUR	1	
8.	GHATAIL	3	
9.	GOPALPUR	1	
10.	* BHUAPUR	3	Contractor did not accept counter offer by CMC.
11.	* KALIHATI	1	-Do-
12.	MUKTAGACHHA	1	
13.	FULPUR	1	
14.	ISWARGANJ	1	
15.	NANDAIL	1	
16.	* BHALUKA	1	Work order cancelled for not starting work.
17.	* TRISAL	1	-Do-
18.	* KARIMGANJ	1	Work stopped due to seepage in foundation trench.

<u>Sl.No.</u>	<u>Upázilas</u>	<u>Building Type</u>	<u>Remarks</u>
19.	HUSSAINPUR	1	
20.	PAKUNDIA	1	
21.	KULIARCHAR	1	
22.	* BAJITPUR	1	Contractor did not accept counter offer by CMC.
23.	SHIBPUR	1	

CHITTAGONG DIVISION

24.	* MURADNAGAR	1	Work stopped due to seepage in foundation trench.
25.	DEBIDWAR	1	
26.	DAUDKANDI	3	

Note : 18 sites are under construction in phase 1

\* 8 sites are to be included in phase 2 construction.

**APPENDIX 2**

**UPAZILA FAMILY PLANNING STOREROOM CONSTRUCTION PROJECT**

**PHASE 2 CONSTRUCTION**

**LIST OF UPAZILAS AND BUILDING TYPE**

UPAZILA FAMILY PLANNING STOREROOM CONSTRUCTION PROJECT.

PHASE 2 CONSTRUCTION

List of Upazilas and Building Type

DHAKA DIVISION.

<u>Sl.No.</u>	<u>Upazilas</u>	<u>Building Type</u>	<u>Remarks</u>
1.	SAVAR	3	
2.	DHAMRAI	1	Selected site from Phase 1 Appendix 1 Sl.No. 5
3.	KAPASIA	1	
4.	TRISAL	1	Selected site from Phase 1 Appendix 1 Sl.No. 17
5.	BHALUKA	1	Selected site from Phase 1 Appendix 1 Sl.No. 16
6.	FULBARIA	1	
7.	MONOHARDI	1	
8.	SRINAGAR	3	
9.	LOHAJANG	3	
10.	SINGAIR	3	
11.	DAULATPUR	1	
12.	NAGARKANDA	3	
13.	SADARPUR	1	
14.	BOALMARI ✓	3	
15.	BHANGA	1	
16.	RAJOR	1	
17.	KALKINI	1	
18.	KATIADI	1	

<u>Sl.No.</u>	<u>Upazilas</u>	<u>Building Type</u>	<u>Remarks</u>
19.	BAJITPUR	1	Selected site from Phase Appendix 1 Sl.No. 22
20.	BHAIRAB BAZAR	3	
21.	KARIMGANJ	1	Selected site from Phase Appendix 1 Sl.No. 18
22.	PURBADHALA	1	
23.	ATPARA	1	
24.	DURGAPUR	3	
25.	KALIHATI	1	Selected site from Phase Appendix 1 Sl.No. 11
26.	BHUAPUR	3	Selected site from Phase Appendix 1 Sl.No. 10
27.	BASAIL	1	
28.	SARISABARI	3	
29.	MELANDAH	1	
30.	SRIBARDI	1	
31.	NALITABARI	1	

CHITTAGONG DIVISION

32.	HONNA	1	
33.	MURADNAGAR	1	Selected site from Phase Appendix 1 Sl.No. 24
34.	AKHAURA	1	

**APPENDIX 3**

**UPAZILA FAMILY PLANNING STOREROOM CONSTRUCTION PROJECT**

**PHASE 3 CONSTRUCTION**

**LIST OF UPAZILAS AND BUILDING TYPE**

UPAZILA FAMILY PLANNING STOREROOM CONSTRUCTION PROJECT.

PHASE 3 CONSTRUCTION

KHULNA DIVISION

List of Upazila.

<u>Sl.No.</u>	<u>Zila</u>	<u>Upazila</u>	<u>Flood Status</u>	<u>Bldg.Type</u>	<u>Remarks</u>
1.	Kushtia	Daulatpur	B.F.L.	4	
		Bheramara	A.F.L.	1	
		Kumarkhali	B.F.L.	4	
		Khoksha	A.F.L.	1	
		Mirpur	A.F.L.	1	
2.	Meherpur	Gangni	A.F.L.	1	
3.	Chuadanga	Alamdanga	A.F.L.	1	
		Damurhuda	A.F.L.	1	
		Jiban Nagar	A.F.L.	1	
4.	Jhenaidah	Kotchandpur	A.F.L.	1	
		Harinakundu	A.F.L.	1	
		Kaliganj	A.F.L.	1	
		Soilkupa	A.F.L.	1	
		Moheshpur	A.F.L.	1	
5.	Magura	Sripur	A.F.L.	1	
		Salika	A.F.L.	1	
6.	Narail	Lohagara	A.F.L.	1	
		Bagherpara	A.F.L.	1	
7.	Jessore	Abhoy Nagar	A.F.L.	1	
		Jhikergacha	A.F.L.	1	
		Manirampur	A.F.L.	1	
		Keshabpur	A.F.L.	1	
		Sarsha	A.F.L.	1	
8.	Satkhira	Kalaroa	A.F.L.	2	
		Debhata	A.F.L.	2	
		Kaligonj	A.F.L.	2	
		Shyam Nagar	A.F.L.	2	
		Assasuni	A.F.L.	2	
		Tala	A.F.L.	2	

<u>Sl.No.</u>	<u>Zila</u>	<u>Upazila</u>	<u>Flood Status</u>	<u>Bldg.Type</u>	<u>Remark</u>
9.	Khulna	Dumuria	A.F.L.	2	
		Phultala	A.F.L.	2	
		Daulatpur	A.F.L.	2	
10.	Bagerhat	Fakirhat	A.F.L.	2	
		Rampal	B.F.L.	4	
11.	Pirojpur	Kawkhali	A.F.L.	2	
12.	Jhalokati	Nalchiti	A.F.L.	2	
		Rajapur	B.F.L.	4	
13.	Barguna	Belagi	A.F.L.	2	
		Banna	A.F.L.	2	
14.	Patuakhali	Kalapara	A.F.L.	2	
		Galachipa	A.F.L.	2	
		Mirzagonj	A.F.L.	2	
		Bauphal	A.F.L.	2	
15.	Bhola	Lalmohan	B.F.L.	4	
		Borhanuddin	A.F.L.	2	
		Charfesson	A.F.L.	2	
16.	Barisal	Bakerganj	A.F.L.	2	
		Agailjhara	B.F.L.	4	
		Uzirpur	A.F.L.	2	
		Banaripara	A.F.L.	2	

Total : 50 Sites

Note : A.F.L. indicates Above Flood Level.  
B.F.L. indicates Below Flood Level.

**APPENDIX 4**

**UPAZILA FAMILY PLANNING STOREROOM CONSTRUCTION PROJECT**

**MONITORING REPORT FOR PHASE - 1 CONSTRUCTION STATUS**

**DURING: MAY 1990 TO MARCH 1991**

UPAZILA FAMILY PLANNING STOREROOM CONSTRUCTION PROJECT  
MONITORING REPORT FOR PHASE-1 CONSTRUCTION.

MONTHS: DEC/90 & JAN-MAR/91

APPENDIX 4

BLDG. TYPE	NAME OF UPAZILA	WORK ORDER DATE	LAY OUT GIVEN ON	SUB-SOIL CHECK	ROD BINDING FLOOR SLAB	ROD BINDING ROOF SLAB	FLOOR WORKS	FLOOR FINISH	INTERMEDIATE VISITS DATE	HAND OVER	REMARKS
1	3			01/01	-/05	12/12	20A/-	28/27		31/30	
1	GAZARIA	22.4.90	27.6.90	1.7.90 2.7.90 CHECKED		10.9.90 NOT O.K. 17.9.90 O.K.	8.11.90 O.K.	NOT INFORMED FOR CHECKING OF FLOOR FINISH PREPARATION	22.7.90 B/W UPTO PLINTH LEVEL. 6.8.90 B/W UPTO ROOF LEVEL. 19.8.90 -DO- 4.9.90 SHUTTER FOR ROOF SLAB 23.9.90 ROOF SLAB CASTING COMPLETE. 22.11.90 PREPARATION OF LIME TERRACING. 3.12.90 LIME TERRACING IN PROGRESS. 31.2.90 FINISHING WORKS IN PROGRESS. 12.1.91 PATENT STONE COMPLETE. 17.2.91 BUILDING COMPLETE.		WORK STARTED VERY LATE. BEHIND SCHEDULE STOREROOM BLDG COMPLETE NEEDS FINAL CHECKING MARCH 10, 1991: PHOTO - STOREROOM CONSTRUCTION STATUS.
2	MURADNAGAR	14.4.90	10.5.90	19.6.90 7.7.90 22.7.90  6.8.90 7.8.90 SEE REMARKS							WORK HELDUP TILL DRY SEASON DUE TO SEEPAGE OF WATER IN TRENCH. INCLUDED IN PHASE 2 CONSTRUCTION.
1	DEBIDWAR	14.4.90	16.5.90	CHECKED BY CMC		30.5.90 NOT O.K. 7.7.90 NOT O.K. 9.7.90 O.K.	NOT INFORMED FOR CHECKING OF FLOOR WORKS PREPARATION	4.9.90 CHECKED	1.6.90 B/W ABOVE PLINTH LEVEL. 22.7.90 ROOF SLAB CASTING COMPLETE. 19.8.90 SAND FILLING IN FLOOR. 4.10.90 FINISHING WORKS 22.11.90 FINISHING WORKS COMPLETE. 25.2.91 BUILDING COMPLETE.		ROOF BEAM CASTED NOT INFORMED FOR CHECKING. STOREROOM BLDG COMPLETE NEEDS FINAL CHECKING FEB. 25, 1991: PHOTO - STOREROOM CONSTRUCTION STATUS.
1	MUKTAGACHHA	14.4.90	7.5.90	15.5.90 CHECKED		5.8.90 NOT O.K. 8.9.90 CHECKED O.K.	NOT INFORMED FOR CHECKING OF FLOOR WORKS PREPARATION	NOT INFORMED FOR CHECKING OF FLOOR FINISH PREPARATION	11.6.90 B/W ABOVE PLINTH LEVEL. 27.6.90 -DO- 24.7.90 B/W UPTO ROOF LEVEL. 23.9.90 FINISHING WORKS IN PROGRESS 10.10.90 -DO- 18.10.90 -DO- 13.11.90 FINISHING WORKS IN PROGRESS (FINAL TOUCH) 31.12.90 BUILDING COMPLETE.		FINISHING WORKS GOING ON. STOREROOM BLDG COMPLETE NEEDS FINAL CHECKING MARCH 3, 1991: PHOTO - STOREROOM CONSTRUCTION STATUS.

NOTE: 01/01, -/05, 12/12, INDICATE ITEMS OF WORKS IN CHECKLIST/WORK PROGRAM.

B/W - BRICK WORK.

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UPAZILA FAMILY PLANNING STOREROOM CONSTRUCTION PROJECT  
MONITORING REPORT FOR PHASE-1 CONSTRUCTION.

MONTHS: DEC/90& JAN-MAR/91

SL.	BLDG. TYPE	NAME OF UPAZILA	WORK ORDER DATE	LAY OUT GIVEN ON	SUB-SOIL CHECK	ROD BINDING FLOOR SLAB	ROD BINDING ROOF SLAB	FLOOR WORKS	FLOOR FINISH	INTERMEDIATE VISITS DATE	HAND OVER	REMARKS
	1/3				01/01	-/06	12/12	20A/-	28/27	WORKS	31/30	
5.	1 -	TRISAL	2.5.90	NO WORK								WORK ORDER CANCELLED BY CMC. INCLUDED IN PHASE 2 CONSTRUCTION.
6.	1 -	BHALUKA	2.5.90	NO WORK								WORK ORDER CANCELLED BY CMC. INCLUDED IN PHASE 2 CONSTRUCTION.
7.	1 -	SREEPUR	14.4.90	8.5.90	15.5.90 CHECKED		30.5.90 NOT O.K.	NOT INFORMED FOR CHECKING OF FLOOR WORKS PREPARATION	NOT INFORMED FOR CHECKING OF FLOOR FINISH PREPARATION	12.5.90 B/W ABOVE PLINTH LEVEL 23.7.90 ROOF CASTING COMPLETE. 27.9.90 FINISHING WORKS IN PROGRESS 27.9.90 FINISHING WORKS IN PROGRESS. 31.1.90 - DO - 13.2.90 BUILDING COMPLETE. 31.2.90 - DO -		FINISHING WORKS GOING ON. STOREROOM BLDG. COMPLETE (NEEDS FINAL CHECKING) DEC. 31.1990: PHOTO - STOREROOM CONSTRUCTION STATUS.
8.	1 -	MODHUPUR	14.4.90	7.5.90	16.5.90 CHECKED		9.9.90 NOT O.K. 20.9.90 NOT O.K.	NOT INFORMED FOR CHECKING OF FLOOR WORKS PREPARATION	NOT INFORMED FOR CHECKING OF FLOOR FINISH PREPARATION	11.5.90 B/W ABOVE PLINTH LEVEL. 27.6.90 - DO - 24.7.90 - DO - 8.8.90 B/W UPTO ROOF LEVEL. 28.8.90 SHUTTER FOR ROOF SLAB. 10.10.90 ROOF CASTING COMPLETE. 15.10.90 FINISHING WORKS IN PROGRESS. 21.10.90 - DO - 13.11.90 - DO - 31.12.90 BUILDING COMPLETE.		WORKS SUSPENDED BY CONTRACTOR. REASON NOT KNOWN. BEHIND SCHEDULE. BUILDING COMPLETE. NEEDS FINAL CHECKING) MARCH 5, 1991: PHOTO - STOREROOM CONSTRUCTION STATUS.

NOTE: 01/01, -/06, 12/12, INDICATE ITEMS OF WORKS IN CHECKLIST/WORK PROGRAM.

B/W - BRICK WORK.

UPAZILA FAMILY PLANNING STOREROOM CONSTRUCTION PROJECT  
MONITORING REPORT FOR PHASE-1 CONSTRUCTION.

MONTHS: DEC/90 & JAN-MAR/91

APPENDIX

BLDG. TYPE	NAME OF UPAZILA	WORK ORDER DATE	LAY OUT GIVEN ON	SUB-SOIL CHECK	ROD BINDING FLOOR SLAB	ROD BINDING ROOF SLAB	FLOOR WORKS	FLOOR FINISH	INTERMEDIATE VISITS		HAND OVER	REMARKS
									DATE	WORKS		
1-3	GHATAIL	14.4.90	7.5.90	01/01 10.5.90 11.6.90 CHECKED	-/06 10.7.90 NOT O.K. 15.7.90 CHECKED	12/12 9.12.90 NOT O.K. 12.12.90 O.K.	20A/-	28/27 NOT INFORMED FOR CHECKING OF FLOOR FINISH PREPARATION	27.6.90 24.7.90 8.8.90 29.8.90 10.10.90	COLUMN UPTO PLINTH LEVEL. FLOOR SLAB CASTING COMPLETE. --DO-- B/W ABOVE FLOOR SLAB. B/W R.C.C COLUMN IN PROGRESS.	3/30	WORK PROGRESS VERY SLOW. WORK RESTARTED VERY PFCENT. PORCH SLAB CASTED.
					O.K.				25.10.90 5.11.90 13.11.90	PORCH SLAB ROD BINDING IN PROGRESS. PORCH SLAB CASTING COMPLETE. PORCH SLAB DISMANTLING IN PROGRESS.		WITHOUT THE PRESENCE OF CMC ENGINEER WAS DISMANTLED. (STOREROOM BLDG COMPLETE NEEDS FINAL CHECKING.)
									15.11.90 31.12.90 15.1.91 17.2.91	PORCH SLAB ROD BINDING CHECKED AND FOUND O.K. FINISHING WORK IN PROGRESS. LIME TERRACING IN PROGRESS. BUILDING COMPLETE.		MARCH 3, 1991 PHOTO - STOREROOM CONSTRUCTION STATUS.
1-	KALIHATI	NO WORK ORDER										CONTRACTOR DID NOT ACCEPT COUNTER OFFER GIVEN BY CMC INCLUDED IN PHASE-2 CONSTRUCTION.
1-3	KALIAKOIR	14.4.90	5.5.90	9.5.90 CHECKED	11.5.90 NOT O.K. 10.7.90 NOT O.K.	6.7.90 CHECKED O.K.		NOT INFORMED FOR CHECKING OF FLOOR FINISH PREPARATION	10.6.90 14.7.90 24.7.90 9.9.90	COLUMN UPTO PLINTH LEVEL. FLOOR SLAB CASTING. FLOOR SLAB COMPLETE. READY FOR CASTING (ROOF-SLAB AND BEAM)		WORK PROGRESS SLOW. BEHIND SCHEDULE. STOREROOM BLDG COMPLETE NEEDS FINAL CHECKING.
					14.7.90 O.K.				10.10.90 25.10.90 13.11.90 31.12.90 17.2.91	ROOF CASTING COMPLETE. FINISHING WORKS IN PROGRESS. --DO-- --DO-- BUILDING COMPLETE.		FEB. 24, 1991 PHOTO - STOREROOM CONSTRUCTION STATUS.
1-	SONARGAON	14.4.90	11.5.90	13.5.90 CHECKED		1.7.90 CHECKED O.K.		NOT INFORMED FOR CHECKING OF FLOOR WORKS PREPARATION	27.5.90 29.5.90 8.5.90 24.6.90 2.7.90	B/W UPTO PLINTH LEVEL. --DO-- B/W ABOVE PLINTH LEVEL. --DO-- ROOF SLAB CASTING.		FINISHING WORKS GOING ON. MR.G COOK DIR.OPM/DHAKA MR.J CROWLEY COMM. DIV. OPM AID/WASH.
								NOT INFORMED FOR CHECKING OF FLOOR FINISH PREPARATION	28.7.90 4.9.90 17.9.90 30.9.90 22.1.90	ROOF SLAB COMPLETE. FINISHING WORKS GOING ON. --DO-- --DO-- BLDG COMPLETE AND UNDER LOCK AND KEY.		MR.PGABY POLUSID/DHAKA INSPECTED THE STOREROOM WITH CMC ON SEPT 30, 1990 NEEDS FINAL CHECKING. FEB. 25, 1991 PHOTO - STORE ROOM CONSTRUCTION STATUS.

NOTE: 01/01, -/06, 12/12, INDICATE ITEMS OF WORKS IN CHECKLIST/WORK PROGRAM.

B/W - BRICK WORK.

3 OF 7

UPAZILA FAMILY PLANNING STOREROOM CONSTRUCTION PROJECT  
MONITORING REPORT FOR PHASE-1 CONSTRUCTION.

MONTHS: DEC/90 & JAN-MAR/91

APPENDIX

BLDG. TYPE	NAME OF UPAZILA	WORK ORDER DATE	LAY OUT GIVEN ON	SUB-SOIL CHECK 01/01	ROD BINDING FLOOR SLAB -/06	ROD BINDING ROOF SLAB 12/12	FLOOR WORKS 20A/-	FLOOR FINISH 28/27	INTERMEDIATE VISITS DATE	HAND OVER 31/30	REMARKS
3	DAUDKANDI	29.4.90	8.5.90	16.5.90 CHECKED	6.6.90 CHECKED 30.9.90 O.K.	25.11.90 NOT O.K. 3.12.90 O.K.		NOT INFORMED FOR CHECKING OF FLOOR FINISH PREPARATION	29.5.90 FOOTING(COLUMN). 30.6.90 FLOOR SLAB COMPLETE. 2.7.90 } FOR INVESTIGATION. 11.7.90 } 22.7.90 B/W UPTO PLINTH LEVEL.		FLOOR SLAB & BEAM ON GRADE HAS BEEN DISMANTLED AS PER CMC CHIEF ENGINEERS ORDER.
									12.5.90 DEMOLITION OF SLAB AND BEAM ON GRADE. 23.9.90 FLOOR SLAB AND BEAM ROD BINDING IN PROGRESS. 210.90 FLOOR SLAB CASTING GOING ON. 22.11.90 ROOF SLAB ROD BINDING IN PROGRESS 31.12.90 LIME TERRACING IN PROGRESS. 13.2.91 FINISHING WORKS IN PROGRESS 25.2.91 BUILDING COMPLETE		BEHIND SCHEDULE. NEEDS FINAL CHECKING. FEB. 25, 1991: PHOTO—STOREROOM CONSTRUCTION STATUS.
1	PAKUNDIA	14.4.90	6.5.90	CHECKED BY CMC		17.9.90 NOT O.K. 24.9.90 NOT O.K. 1.10.90 O.K.	NOT INFORMED FOR CHECKING OF FLOOR WORKS PREPARATION	NOT INFORMED FOR CHECKING OF FLOOR FINISH PREPARATION	16.5.90 FOUNDATION EXCAVATION. 27.6.90 B/W IN FOUNDATION. 23.7.90 B/W UPTO PLINTH LEVEL 15.11.90 FINISHING WORKS IN PROGRESS		WORKS PROGRESS VERY SLOW. BEHIND SCHEDULE MARCH 6, 91: PHOTO—STORE ROOM CONSTRUCTION STATUS
1	KULIARCHAR	14.4.90	7.5.90	16.7.90 CHECKED		7.10.90 O.K.	NOT INFORMED FOR CHECKING OF FLOOR WORKS PREPARATION	NOT INFORMED FOR CHECKING OF FLOOR FINISH PREPARATION	22.8.90 B/W UPTO ROOF LEVEL. 15.11.90 REMOVAL OF ROOF SHUTTERS IN PROGRESS. 13.1.91 FINISHING WORKS IN PROGRESS 25.2.91 BUILDING COMPLETE.		WORK STARTED VERY LATE. BEHIND SCHEDULE. NEEDS FINAL CHECKING. FEB 26, 1991: PHOTO—STOREROOM CONSTRUCTION STATUS.
1	HUSSAINPUR	14.4.90	5.5.90	CHECKED BY CMC		5.2.91 O.K.			17.5.90 SUB-SOIL CHECKED AND NEEDED RECHECKED. 1.6.90 —DO— 27.6.90 B/W IN FOUNDATION. 23.7.90 B/W UPTO PLINTH LEVEL 10.10.90 B/W UPTO ROOF LEVEL. 14.11.90 —DO—		WORK PROGRESS VERY SLOW. WORK STOPPED BY CONTRACTOR. NO ACTION BY CMC. BEHIND SCHEDULE. MARCH 5, 1991 PHOTO—STOREROOM CONSTRUCTION STATUS.

NOTE: 01/01, -/06, 12/12, INDICATE ITEMS OF WORKS IN CHECKLIST/WORK PROGRAM.

B/W—BRICK WORK.

SL.	BLDG. TYPE	NAME OF UPAZILA	WORK ORDER	LAY OUT	SUB-SOIL	ROD BINDING	ROD BINDING	FLOOR	FLOOR	INTERMEDIATE VISITS		HAND OVER	REMARKS
			DATE	GIVEN ON	CHECK	FLOOR SLAB	ROOF SLAB	WORKS	FINISH	DATE	WORKS	31/30	
17.	1	KARIMGANJ	14.4.90	5.5.90	26.6.90 23.7.90 SEE REMARKS	-/06	12/12	20A/-	28/27				WORK STOPPED FOR BAD SOIL AND SEEPAGE. CAN BE STARTED IN DRY SEASON WORK STARTED VERY LATE.
													INCLUDED IN PHASE-2 CONSTRUCTION.
18.	1	BAJITPUR	NO WORK ORDER										CONTRACTOR DIDNOT ACCEPT COUNTER OFFER GIVEN BY C.M.C. INCLUDED IN PHASE-2 CONSTRUCTION.
19.	1	ISWARGANJ	6.5.90	25.6.90	27.6.90 CHECKED		14.11.90 NOT O.K. 24.11.90 O.K.	5.1.91 O.K.	23.7.90 B/W IN FOUNDATION. 24.9.90 B/W UPTO ROOF LEVEL. 9.10.90 - DO- 14.1.91 FINISHING WORKS IN PROGRESS 18.2.91 - DO-				WORK STARTED VERY LATE. PROGRESS SLOW. BEHIND SCHEDULE MARCH 6, 1991. PHOTO - STOREROOM CONSTRUCTION STATUS.
20.	1	DHAMRAI	NO WORK ORDER										CONTRACTOR DIDNOT ACCEPT COUNTER OFFER GIVEN BY C.M.C. INCLUDED IN PHASE-2 CONSTRUCTION.

NOTE: 01/01, -/06, 12/12, INDICATE ITEMS OF WORKS IN CHECKLIST/WRK PROGRAM.

B/W - BRICK WORK.

UPAZILA FAMILY PLANNING STOREROOM CONSTRUCTION PROJECT  
MONITORING REPORT FOR PHASE-1 CONSTRUCTION.

MONTHS: DEC/90& JAN-MAR/91

APPENDIX

SL.	BLDG. TYPE	NAME OF UPAZILA	WORK ORDER DATE	LAY OUT GIVEN ON	SUB-SOIL CHECK	ROD BINDING FLOOR SLAB	ROD BINDING ROOF SLAB	FLOOR WORKS	FLOOR FINISH	INTERMEDIATE VISITS DATE	HAND OVER	REMARKS
21.	1	SHIBALAYA	14.2.90	9.5.90	14.5.90 CHECKED	-106	12/12	NOT INFORMED FOR CHECKING OF FLOOR WORKS PREPARATION.	NOT INFORMED FOR CHECKING OF FLOOR FINISH PREPARATION.	20.6.90 B/W ABOVE PLINTH LEVEL. 31.8.90 ROOF SLAB COMPLETE. 7.9.90 FINISHING WORKS IN PROGRESS. 4.11.90 - DO - 24.2.91 BUILDING COMPLETE	31/30	NOT INFORMED BY CMC FOR CHECKING FLOOR WORKS BEFORE CASTING STORE ROOM COMPLETE NEEDS FINAL CHECKING. FEB. 24, 1991 PHOTO - STOREROOM CONSTRUCTION STATUS.
22.	- 3	BHUAPUR	NO WORK ORDER									CONTRACTOR DIDNOT ACCEPT COUNTER OFFER GIVEN BY CMC. INCLUDED IN PHASE-2 CONSTRUCTION.
13.	1	GOPALPUR	14.4.90	5.5.90	10.5.90 CHECKED			NOT INFORMED FOR CHECKING OF FLOOR WORKS PREPARATION.	NOT INFORMED FOR CHECKING OF FLOOR FINISH PREPARATION.	24.7.90 B/W ABOVE PLINTH LEVEL. 28.8.90 B/W ABOVE LINTEL LEVEL. 13.10.90 ROOF CASTING COMPLETE 31.12.90 FINISHING WORKS IN PROGRESS. 15.1.91 - DO - 17.2.91 - DO -		WORK PROGRESS VERY SLOW REASONS NOT KNOWN WORK RESTART VERY RECENT. BEHIND SCHEDULE. MARCH 3, 1991 PHOTO - STOREROOM CONSTRUCTION STATUS
	1	NANDAIL	14.4.90	6.5.90	17.5.90 CHECKED			NOT O.K. 12.1.91 O.K.		27.6.90 B/W IN FOUNDATION. 23.7.90 B/W ABOVE PLINTH LEVEL. 24.9.90 - DO - 10.10.90 B/W UPTO ROOF LEVEL. 14.11.90 - DO - 18.2.91 WORK STOPED BY CONTRACTOR		WORK PROGRESS VERY SLOW. WORK STOPPED BY CONTRACTOR. BEHIND SCHEDULE. MARCH 5, 1991 PHOTO - STOREROOM CONSTRUCTION STATUS.

NOTE: 01/01, -/05, 12/12, INDICATE ITEMS OF WORKS IN CHECKLIST/WORK PROGRAM.

B/W - BRICK WORK.

UPAZILA FAMILY PLANNING STOREROOM CONSTRUCTION PROJECT  
MONITORING REPORT FOR PHASE-1 CONSTRUCTION.

MONTHS: DEC/90 & JAN-MAR/91

APPENDIX 4

SLDG. TYPE	NAME OF UPAZILA	WORK ORDER DATE	LAY OUT GIVEN ON	SUB-SOIL CHECK	ROD BINDING FLOOR SLAB	ROD BINDING ROOF SLAB	FLOOR WORKS	FLOOR FINISH	INTERMEDIATE VISITS		HAND OVER	REMARKS
									DATE	WORKS		
25. 1	FULPUR	14.4.90	5.5.90	16.5.90 CHECKED	-/06	12/12 NOT O.K.	14.1.90 O.K.	NOT INFORMED FOR CHECKING OF FLOOR FINISH PREPARATION	24.7.90 B/W ABOVE PLINTH LEVEL. 17.10.90 ROOF CASTING COMPLETE. 18.2.91 BUILDING COMPLETE.	31/30	WORKI PROGRESS VERY SLOW. BEHIND SCHEDULE NEEDS FINAL CHECKING MARCH 6, 1991 PHOTO- STOREROOM CONSTRUCTION STATUS.	
26. 1	SHIBPUR	4.90	9.5.90	13.5.90 CHECKED		26.6.90 NOT O.K. 30.6.90 O.K.	NOT INFORMED FOR CHECKING OF FLOOR WORKS PREPARATION.	NOT INFORMED FOR CHECKING OF FLOOR FINISH PREPARATION.	27.5.90 B/W IN FOUNDATION. 16.7.90 ROOF SLAB COMPLETE. 22.8.90 FINISHING WORKS 26.3.90 --OO-- 7.10.90 --OO-- 15.11.90 --OO-- 26.2.91 BUILDING COMPLETE		FINISHING WORKS GOING ON. STOREROOM BLDG COMPLETE. NEEDS FINAL CHECKING MARCH 10, 1991 PHOTO- STOREROOM CONSTRUCTION STATUS.	

NOTE: 01/01, -/05, 12/12, INDICATE ITEMS OF WORKS IN CHECKLIST/WORK PROGRAM.

B/W - BRICK WORK.

**APPENDIX 5**

**UPAZILA FAMILY PLANNING STOREROOM CONSTRUCTION PROJECT  
PRESENT AND SUGGESTED F.A.R. AMOUNT  
FOR EACH TYPE OF BUILDING**

UPAZILA FAMILY PLANNING STORE ROOM CONSTRUCTION PROJECT.  
 FOR FINANCIAL YEAR 1990-91  
 SUGGESTED F.A.R UNIT COST FOR TYPE 1,2,3 AND 4.

STOREROOM		AVERAGE SITE COST (SEPTIC TANK, SOAK WELL, EXTRA FOUNDATION)	SUB TOTAL	CONTINGENCY 10%	TOTAL (SUGGESTED F.A.R)
TYPE	COST				
1	541094	25,000	566094	56,610	622,704
2	554565	25,000	579,565	57,957	637,522
3	692,499	25,000	717,499	71,750	789,249
4	712877	25,000	737877	73,788	811,665

UPAZILA FAMILY PLANNING STORE ROOM CONSTRUCTION PROJECT.  
 FOR FINANCIAL YEAR 1991-92  
 SUGGESTED F.A.R UNIT COST FOR TYPE 1,2,3 AND 4.

STORE ROOM		AVERAGE SITE COST (SEPTIC TANK, SOAK WELL, EXTRA FOUNDATION)	SUB TOTAL	CONTINGENCY 10%	TOTAL (SUGGESTED F.A.R)
TYPE	COST				
1	595,203	27,500	622,703	62,271	684,974
2	610,022	27,500	637,522	63,753	701,275
3	761,749	27,500	789,249	78,925	868,174
4	784,165	27,500	811,665	81,167	892,832

UPAZILA FAMILY PLANNING STOREROOM CONSTRUCTION PROJECT.

PRESENT F.A.R. AMOUNT.

FOR EACH TYPE OF BUILDING.  
(Financial Year 1989/90)

BUILDING TYPE	PRESENT F.A.R. AMOUNT (TAKA)
1	493,512
2	501,196
3	610,005
4	630,302

**APPENDIX 6**

**UPAZILA FAMILY PLANNING STOREROOM CONSTRUCTION PROJECT  
PROJECT CONSTRUCTION BUILDING COST ESTIMATE**

UPAZILA FAMILY PLANNING STOREROOM CONSTRUCTION PROJECT.  
CONSTRUCTION ON GOING IN FINANCIAL YEAR 1989-90

ESTIMATED CONSTRUCTION COST  
PHASE 1

BUILDING TYPE	PRESENT F.A.R PER UNIT TAKA	NO. OF UNITS	TOTAL TAKA
1 NON FLOOD LOW FLOOD LOW WIND LOAD	493,512	15	74,02,680
2 NON FLOOD HIGH WIND LOAD	501,196	—	—
3 FLOOD LOW WIND LOAD	610,005	3	18,30,015
4 FLOOD HIGH WIND LOAD	630,302	—	—
TOTAL		18	92,32,695

UPAZILA FAMILY PLANNING STOREROOM CONSTRUCTION PROJECT.

TOTAL PROJECT CONSTRUCTION BUILDING COST.

<u>PHASE</u>	<u>NO.SITE</u>	<u>REMARKS</u>	<u>ESTIMATED COST TAKA</u>
1	18	On Going	92,32,695
2 & 3	84	For Financial Year 1990/91	5,52,50,985
4 & 5	108	For Financial Year 1991/92	8,16,50,404
Total	<u>210</u>		<u>14,61,34,084</u>

UPAZILA FAMILY PLANNING STOREROOM CONSTRUCTION PROJECT.  
 ANTICIPATED TO BE CONSTRUCTED IN FINANCIAL YEAR 1990-91

ESTIMATED CONSTRUCTION COST.  
 PHASES 2 AND 3.

BUILDING TYPE	PROPOSED F.A.R PER UNIT TAKA	NO. OF UNITS	TOTAL TAKA
1 NON FLOOD LOW FLOOD LOW WIND LOAD	622,704	43	2,988,792
2 NON FLOOD HIGH WIND LOAD	637,522	21	1,333,7962
3 FLOOD LOW WIND LOAD	789,249	9	71,0324
4 FLOOD HIGH WIND LOAD	811,665	6	48,69,990
	TOTAL	84	5,52,50,985

UPAZILA FAMILY PLANNING STOREROOM CONSTRUCTION PROJECT  
 ANTICIPATED TO BE CONSTRUCTED IN FINANCIAL YEAR 1991-

ESTIMATED CONSTRUCTION COST.  
 PHASES 4 AND 5

BUILDING TYPE	PROPOSED F.A.R PER UNIT TAKA	NO. OF UNITS	TOTAL TAKA
1 NON FLOOD LOW FLOOD LOW WIND LOAD	684,974	68	4,65,78,232
2 NON FLOOD HIGH WIND LOAD	701,275	0	0
3 FLOOD LOW WIND LOAD	868,174	26	2,25,72,524
4 FLOOD HIGH WIND LOAD	892,832	14	1,24,99,648
	TOTAL	108	8,16,50,404