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GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH
BANGLADESH AGRICULTURAL DEVELOPMENT CORPORATION



AGENCY FOR INTERNATIONAL DEVELOPMENT
Grant Financed
FERTILIZER DISTRIBUTION IMPROVEMENT - I (388-0024)

ENGINEER CONSULTANT SERVICES FOR CONSTRUCTION
OF BAGGED PRODUCT FERTILIZER WAREHOUSES IN
BANGLADESH-PHASE III

PROGRESS REPORT NO.9

AUGUST 1983



AMMANN & WHITNEY
CONSULTING ENGINEERS
NEW YORK

in association with



WORLDWIDE ENGINEERS LTD.
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DHAKA



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WAREHOUSES PHASE III

Project Director, BADC
USAID Construction Project
20, Outer Circular Road
Rajarbagh, Dhaka-17

724-2.1.1/565
06 September 1983

Subject : Monthly Report No.9
- August 1983

Dear Sir,

In compliance with paragraph B.2 of Appendix A, Scope of Work, of Agreement for Engineer Consultant Services - Warehouses Phase III, fifteen (15) copies of the Monthly Report No.9 are submitted to BADC and six (6) copies to USAID.

Very truly yours
AMMANN & WHITNEY



George A. Pecht
Project Manager

Encl: Eleven (11) Copies

GAP/neh

cc: Chairman, BADC w/encl. (1)
Member-Director (Irri), BADC w/encl. (1)
Manager (Storage) BADC w/encl. (1)
Chief Engineer (C) BADC w/encl. (1)
Mr. Paul B. Thorn, AID/Dhaka w/encl. (6)
File 724-1.4.2 w/encl.

AMMANN & WHITNEY
Consulting Engineers

FERTILIZER WAREHOUSES - PHASE III

Monthly Progress Report No.9
Month of August 1983

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PROJECT SUMMARY

1. Project Designation : Construction of Bagged Product Fertilizer Warehouse in Bangladesh - Phase III
2. Financed by: Grant Funds : USAID Fertilizer Distribution Improvement I Project 388-0024
Taxes and Duties : Government of Bangladesh
3. Owner : BADC (Facilities to be used by MS&S Div.)
4. USAID Fund Allocation : a) \$ 1.95 million for consultancy (design and supervision of construction)
\$ 0.31 million for vehicles/equipment/supplies.
b) Estimate for construction work is under process by Consultant
5. Proposed Warehouse Storage Capacity : 33,000 MT
6. Consultant : Ammann & Whitney
7. Consultant's Contract Duration : 9 December 1982 to 28 February 1985
8. Construction Contractor : Contractors to be prequalified
9. Construction Contract Period : 15 Months (Estimated)
10. Scheme/Contract Administration/Commercial Aspects by : Manager (Storage) BADC, Dhaka
11. Time and Fund Spent:

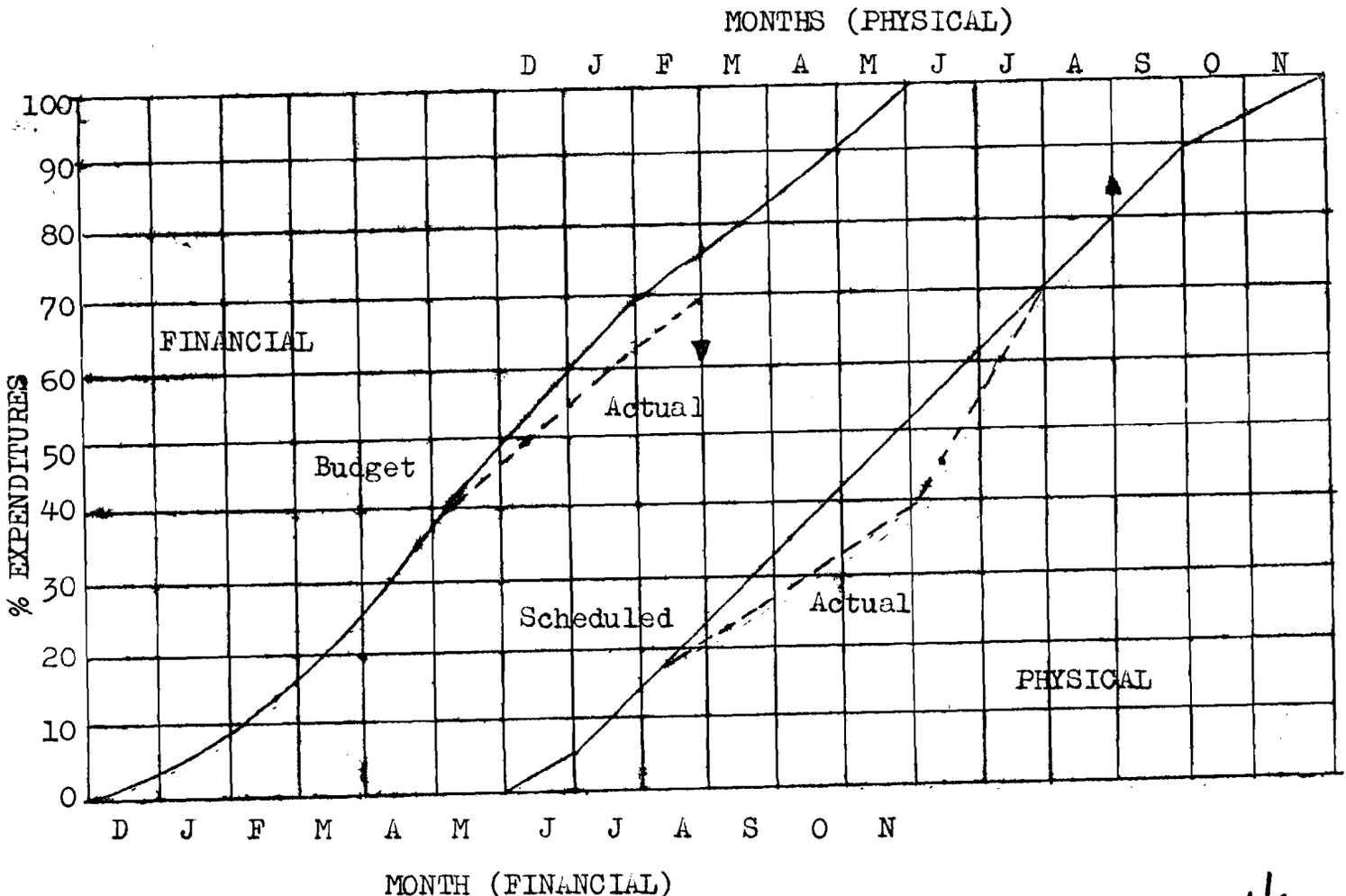
<u>Consultant Services</u>		<u>Construction Works</u>	
Time Elapsed	Estimated Cost Incurred	Time Elapsed	Estimated Cost Incurred
8.75 month	\$616,837	-	-

12. Comments:
 - a. BADC's action is required on following:
 - a. Decision of procurement of project vehicles
 - b. Obtaining BR approval for railway sidings and their estimate for same.
 - c. Confirmation and verification of all land acquisitions.
 - d. Removal of structures and utilities which would interfere with construction at all sites. This work must be completed by BADC prior to award of construction contracts.

WAREHOUSES PHASE III
FINANCIAL-PROGRESS SCHEDULES

PRE-CONSTRUCTION PHASE (PCP)

			<u>THIS</u> <u>MONTH</u>	<u>TO DATE</u>
TOTAL PROJECT BUDGET*	\$1,953,445			
ESTIMATED BUDGET FOR PRECONSTRUCTION PHASE	\$ 825,000	ELAPSED CONTRACT TIME (DAYS)	31	265
TOTAL EXPENDITURES TODATE	\$ 576,209**	PERCENT PCP COMPLETED	9%	80%
% EXPENDITURE TO TOTAL BUDGET	29.5%	DAYS TO SCHEDULED PCP COMPLETION 1/	-	85
% EXPENDITURE TO PCP	69.8%	PROJECTED DAYS TO ACTUAL PCP COMPLETION 2/		96
* Excludes \$306,620 for Special Project Activity		DAYS EARLY (LATE) PROJECTED PCP COMPLETION		(11)
** Estimated and excludes \$40,628 for Special Project Activity		1/ 24 November 1983		
		2/ 5 December 1983. Refer to Schedule of Events		



SCHEDULE OF EVENTS

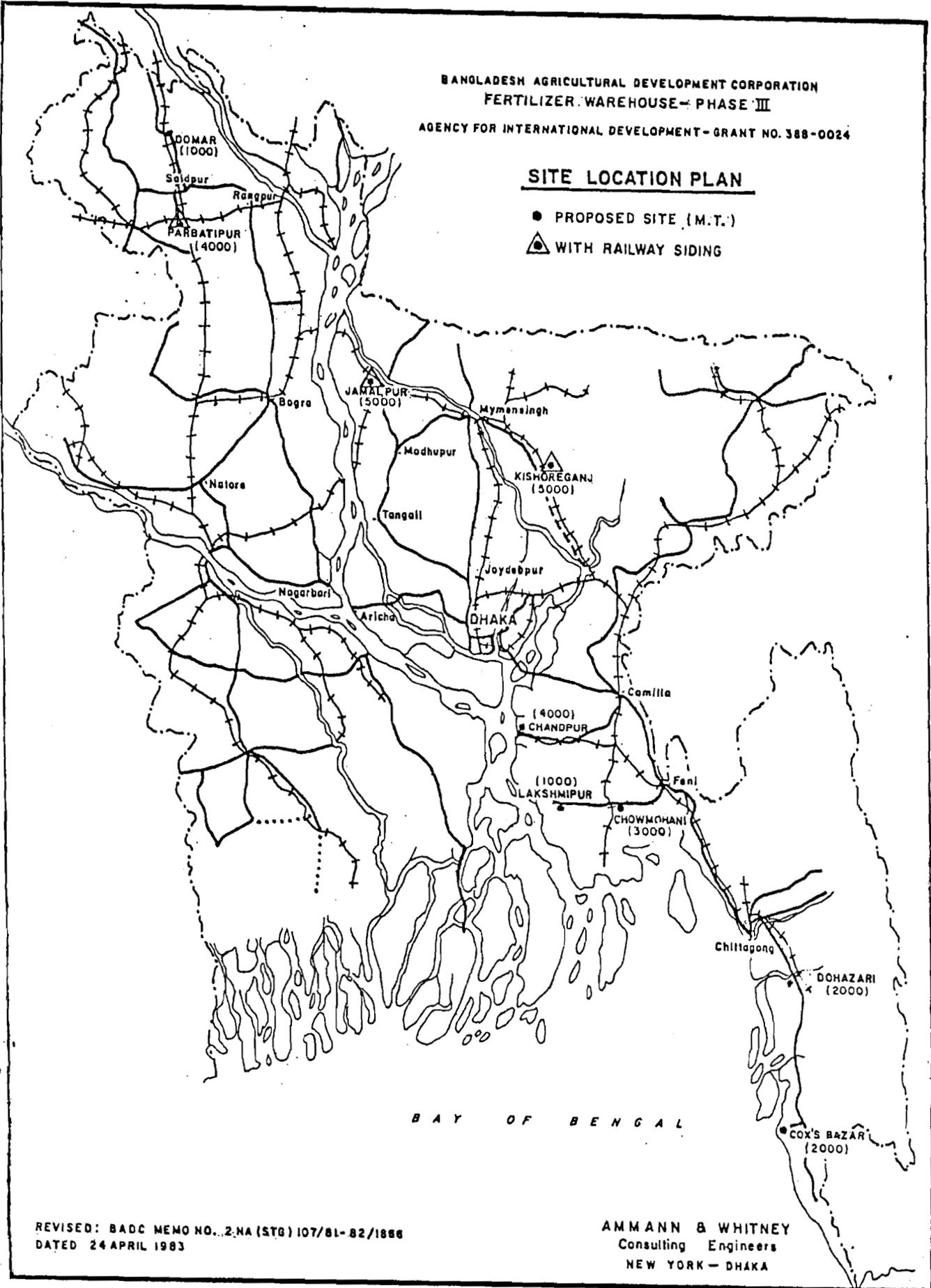
<u>Event</u>	<u>Estimated Completion Date</u>
1. Submit contract drawings to BADC/USAID for review	8 Sept '83
2. Submit Technical Specifications and Bill of Quantities to BADC/USAID for review	13 Sept '83
3. Receive BADC/USAID concurrence on list of prequalified contractors	12 Sept '83
4. Notify contractors of their prequali- fication classification and invitation for bids	13 Sept '83
5. Receive BADC/USAID comments on 1. and 2.	23 Sept '83
6. Finalize contract documents	29 Sept '83
7. Transmit documents to prequalified contractors upon receipt of their request (Issue Date)	02 Oct '83
8. Pre-bid Conference	10 Oct '83
9. Complete Engineer's Cost Estimate	25 Oct '83
10. Receipt and Opening of Bids	25 Oct '83
11. Consultant's Recommendation of Award	01 Nov '83
12. BADC/USAID Approval of Award	15 Nov '83
13. Award of Contract(s)	20 Nov '83
14. Notice to Proceed	05 Dec '83

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BANGLADESH AGRICULTURAL DEVELOPMENT CORPORATION
FERTILIZER WAREHOUSE - PHASE III
AGENCY FOR INTERNATIONAL DEVELOPMENT - GRANT NO. 388-0024

SITE LOCATION PLAN

- PROPOSED SITE (M.T.)
- ▲ WITH RAILWAY SIDING



REVISED: BADC MEMO NO...2.NA (STG) 107/81-82/1886
DATED 24 APRIL 1983

AMMANN & WHITNEY
Consulting Engineers
NEW YORK - DHAKA

1. ADMINISTRATION

1.1 The Consultant's Agreement

- . Contract Agreement Signed - 9 December 1982
- . Effective Date - 9 December 1982
- . AID Letter of Commitment
No. 388-0024-3-30381 - 15 December 1982
- . Duration - 28 February 1985

1.2 Expatriate Staff

		<u>Man-Months</u>	
		<u>Allocated</u>	<u>Utilized</u>
George A. Pecht	- Project Manager	27	8.45
Harry S. Allen	- Chief Construction Engineer	25	6.50
Samuel Heyman	- Foundation Engineer	8 <u>1/</u>	6.77
Colin G. Landrigan	- Structural Engineer	6 <u>1/</u>	4.91

1/ Revised in accordance with 2NA(STG)183/82-83/11, 07.07.83

1.3 Contract Administration

1.3.1 For action by BADC:

- . Amendment No.1 to Consultant's Agreement extending duration to 30 June 1985.
- . Obtain T&T approval for wireless license for radio communication. (2NA(STG)139/81-82/1776, 4 April 83)
- . Approval to procure project vehicles. Refer 724-1.1.11/522, 4.8.83 and /550, 25.8.83.

1.4 Meetings

- . Consultant's weekly project review meetings held each Sunday.

1.5 Supporting Bangladeshi Personnel

1.5.1 WEL and SSL Personnel (Sub-contract)

<u>Designation</u>	<u>Man-Month</u>	
	<u>Allocated</u>	<u>Utilized</u>
Deputy Project Manager	27	8.3906
S&M Engineer	24	7.6364
Structural Engineer	6*	6.3024
Architect	4	3.8389
Electrical Engineer	6	1.5238
Railway Engineer	24	5.9089
Office Engineer	26	7.9091
Land Procurement Officer	12	6.3571
Surveyor	25*	6.7548
Instrument Man	25*	6.7548
Rodman	25*	5.6048
Chainman	25*	6.6048
Draftsman	54*	31.7447
Laboratory Technician	56*	11.7744
Laboratory Assistant	56	-
Estimator	48*	7.4658
Senior Field Engineer	60	7.0000
Field Engineer	80	-
Inspectors	128	-
Drivers	94	-
Messenger	34	-
Peon	34	-
Guard	68	-
Office Superintendent/Accountant	34	-
Clerk	34	-
Typist	34	-

1.5.2 Administrative Personnel

Administrative Manager	27	8.4546
Senior Accountant	27	8.7273
Assistant Accountant	44	7.2472
Secretary	27	8.7273
Printer	27	6.9524
Typist	72	22.1319
Clerk	45	8.7273
Drivers	103	31.5194
Messenger	45	5.9091
Peon	72	17.5888
Guard	90	34.9091
Radio Operator	48	-

*Man-months allocated under review to determine adjustment required due to late handing over of sites by BADC requiring additional service of personnel.

1.6 Project Expenditures
(Estimated Project Cost Incurred)

<u>Item</u>	<u>Budget</u>	<u>This Month</u>	<u>Cumulative</u>
Services in Bangladesh	\$ 746,188	\$ 26,989	\$ 253,120
Services in Home Office	176,178	-	104,021
International Travel, etc.	85,740	4,039	11,482
Housing Allowances Per Diem etc.	91,075	2,753	36,454
Logistic Costs	223,400	4,008	39,696
Supporting Staff	382,404	5,475	57,604
Misc. Direct Costs	43,000	14	5,342
Fixed Fee	205,460	7,610	68,490
	<u>\$1,953,445</u>	<u>\$ 50,888</u>	<u>\$ 576,209</u>
Percent of Estimated Budget		2.61%	29.50%
Percent Contract Time			28.2%
Special Project Activity	\$ 306,620	\$ 926	\$ 40,628

1.7 Billing and Payments

<u>Invoice No.</u>	<u>Period Ending</u>	<u>Letter No. & Date</u>	<u>Billing</u>	<u>Payment</u>
01 - 04	31 May 83		\$330,686.68	\$328,641.74
05	30 June 83	521, 03 Aug 83	\$102,151.78	\$102,153.16

1.8 Reports

- Monthly Progress Report No.8 for July 1983 submitted by letter /523, 07 August 1983.
- Evaluation of Prequalification of Contractors submitted by letter /557, 30 August 1983
- Report on Soils Investigation submitted by letter /559, 31 August 1983

1.9 General

The Consultant carried out topographic surveys during month at Demra site including three possible locations of access roads. Several site layout drawings were prepared prior to being informed by BADC that this site would not be included in Phase III program.

Due to late handing over of sites at Chowmuhani and Kishoreganj the soils investigation program was delayed. Final soils report was available by 25 August. The structural drawings for these sites are presently under preparation.

The delay in handing over of sites has caused an extension to estimated completion date of estimated 21 days.

2. PLANNING/DESIGN/PRODUCTION

2.1 Site Development Plan

2.1.1 Identification Sites

"Dhaka" Site. BADC has verbally informed the Consultant that this site will be excluded from Phase III construction program.

Domar Site. USAID has questioned the need and location of a warehouse in the Domar area. The site selected by BADC for the warehouse is on the BADC Seed Multiplication Farm, a distance of about four miles from the Domar railway station. Improvement of access road and transport cost makes this location questionable as to its economic feasibility for a distribution point as per AID.

2.1.2 Site Status

Additional 5 copies of Land Plan and Site Layout drawings for Jamalpur, Kishoreganj and Parbatipur have been transmitted to BADC by the Consultant for supplying to Bangladesh Railway for preparation of cost estimates for development of railway siding at each of the sites and for obtaining BR's approval. (Memo No.2NA(STG)107/81-83/122 dated 16-8-83).

B-1 Kishoreganj: BADC to take over possession of Sugar Mill land; clearance for siding from B.R.; and raise telephone and power lines as required for clearance over proposed work.

C-3 Jamalpur: BADC to obtain permission for relocating village road; clearance from B.R. for siding; evict persons from acquired area; and, furnish to the Consultant documents, showing plot numbers, of purchase of land.

F-1 Dohazari: Government has sanctioned lease of 2.77 acres khas land at Mouza Kathgorh P.S. Satkania, Dist. Chittagong for construction of the proposed godown. (Memo No.351-VI-296/80-L.S. dt. 17.7.83, the Ministry L.A. & L.R.)

BADC requested that the Consultant's survey party be present at site on 29 August during handing over possession by Kanungo from DC's office. The land handed over does not conform to that indicated on Site Layout drawing (Fl-002R1, 31.05.83) and Manager(Storage) has been requested to take action to rectify.

F-3 Cox's Bazar: A cheque of Tk.41,700 for shifting of power line from Cox's Bazar site was handed over to the District Manager (Fert) by LPO BADC on 26.8.83 in favour of Dy. Director (Accounts) PDB, Chittagong (Tour Note of LPO, BADC, dated 28.8.83). Pending with BADC is acquiring land for access to river and removal of existing structures from the site.

H-2 Chowmuhani: The site layout plan was modified by the Consultant to conform to BADC's comments (/542, 31.07.83). The revised layout was approved on 7.8.83. Resurvey of property required when flood water recede.

H-3 Lakshmipur: No apparent problem.

L-4 Chandpur: BADC to arrange removal of designated existing structures from the site. The Consultant is reviewing location of access to site.

L-4 Domar: BADC to take possession of the site from Seed Multiplication Farm.

O5T-Parbatipur: Meter gauge siding requires further land easement from Bangladesh Railway. Clearance from BR for siding.

2.1.3 Land Plans and Site Layout Drawings

Land Plan and Site Layout drawings for Kishoreganj, Jamalpur, Chandpur, Lakshmipur, Chowmuhani, Dohazari, Cox's Bazar, Domar and Parbatipur have been approved by BADC. The Land Plans prepared by the Consultant are subject to verification by BADC of ownership of property.

2.1.4 Soil Investigation and Topographic and Land Surveys

Topographic and land surveys for all the sites mentioned under 2.1.3 have been completed. The property corners at Dohazari (see 2.1.2 above) and Chowmuhani site (presently flooded) will require resurvey to confirm.

Foundation design analysis requires preloading site with 9.5 feet of fill for 30 days at Chowmuhani and 60 days at Kishoreganj respectively. The godown floor will be constructed with brick soling for both the sites.

Report on Soils Investigation along with reference drawings submitted to BADC and USAID for their information.

2.1.5 Railway Siding

Drawings for railway sidings for Kishoreganj, Jamalpur and Parbatipur have been transmitted to BADC for onward transmittal to BR for obtaining their approval of sidings.

Preparation of supplemental drawings showing details of track layout is under preparation.

2.2 Design and Estimate Phase

2.2.1 Design

Contract drawings of the project buildings are being checked and corrected. Drawings of ancillary buildings are being modified in response to BADC's comments (106.09/1000, 29.8.83).

2.2.2 Construction Cost Estimate

On completion of Bill of Quantities, the cost estimate for each site will be finalized.

2.2.3 Construction Schedule

Preliminary construction schedule completed earlier will be finalized shortly.

2.3 Construction Document Phase

2.3.1 Prequalification Documents

Physical investigation of offices, equipment, projects under construction, and projects previously completed, of the responsive firms to the invitation were completed. The evaluation of the firms was finalized and a list of firms to be invited to bid has been established and recommended to BADC and USAID for their concurrence.

2.3.2 Contract Documents - Conditions of Contract Parts I and II

The Consultant has revised the Contract Documents submitted for approval (/526, 9 Aug 83) to reflect USAID's and BADC's comments. Final documents are pending completion of Contract Drawings and Bill of Quantities.

2.3.3 Bill of Quantities

Detailed quantity take off is being updated to reflect revisions on contract drawings noted above under "Design".

2.3.4 Technical Specifications

Final draft of specifications are presently under review by the Consultant.

2.4 General

- . BADC to take action in obtaining estimates from PDB/R&B on tapping points for supply of electricity to each site.
- . BADC requested USAID to include, under the grant, certain road improvements to Jamalpur, Domar and Parbatipur sites.

NETWORK CHART
WAREHOUSES PHASE III

