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BANGLADESH AGRICULTURAL DEVELOPMENT CORPORATION

388.0024 / 53



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. 5

APRIL, 1983



AMMANN & WHITNEY
CONSULTING ENGINEERS
NEW YORK

in association with



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AMMANN & WHITNEY
8, MOTIJHEEL C. A.
P. O. BOX 348
DHAKA, BANGLADESH

WAREHOUSES PHASE III

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

724-2.1.1/278

09 May 1983

Subject : Monthly Report No.5
- April 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.5 are submitted to BADC and six (6) copies to USAID.

Very truly yours
AMMANN & WHITNEY



George A. Focht
Project Manager

Encls: As Noted

GAF/neh

cc: Chairman, BADC w/encl, (1)
Manager (Storage), BADC
Chief Engineer (0) BADC
Mr. Paul B. Storm, FC, AID/D w/encl, As Noted
File 724-1.4.2 w/encl.

Barnett

2-Way Memo

Subject: Phase III - Monthly Progress Report

INSTRUCTIONS	
Use routing symbols whenever possible.	
SENDER (<i>Originator of message</i>): Use brief, informal language. Conserve space. Forward original and one copy.	
RECEIVER (<i>Reply to message</i>): Reply below the message, keep one copy, return one copy.	

To :
 Mr. Ralph Barnett
 Office of Project Development
 AID/ASIA/PD 3310 New State
 Washington, D.C. 20523

DATE OF MESSAGE	ROUTING SYMBOL
May 11, 1983	
SIGNATURE OF ORIGINATOR	
<i>Paul B. Thorn</i>	
TITLE OF ORIGINATOR	
Project Officer	

INITIAL MESSAGE

Transmitted herewith are two copies of Ammann & Whitney's Monthly Progress Report No. 5 - April 1983.

Regards.

Paul

REPLY MESSAGE

Received with thanks

From : Paul B. Thorn
 Dacca (ID)
 Department of State
 Washington, D.C. 20520

DATE OF REPLY	ROUTING SYMBOL
5-20-83	
SIGNATURE OF REPLIER	
<i>Ralph Barnett</i>	
TITLE OF REPLIER	
<i>Eng -</i>	

11

AMMANN & WHITNEY
Consulting Engineers

FERTILIZER WAREHOUSES - PHASE III

Monthly Progress Report No.5
Month of April 1983

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PROJECT SUMMARY

1. Project Designation : Construction of Bagged Product Fertiliser Warehouses in Bangladesh - Phase III
2. Financed by : Grant Funds : USAID Fertiliser Distribution Improvement I Project 388-0024
- Taxes and Duties : Government of Bangladesh
3. Owner : BADC (Facilities to be used by MS&S Division)
4. USAID Fund Allocation : a) \$1.95 million for consultancy
\$0.31 million for vehicles/equipment/supplies)
b) Estimate for construction work is under process by Consultant
5. Proposed Warehouse Storage Capacity : 53,000 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>	
<u>Time Elapsed</u>	<u>Estimated Cost Incurred</u>	<u>Time Elapsed</u>	<u>Estimated Cost Incurred</u>
4.75 month	\$ 318,787	-	-

12. Comments:

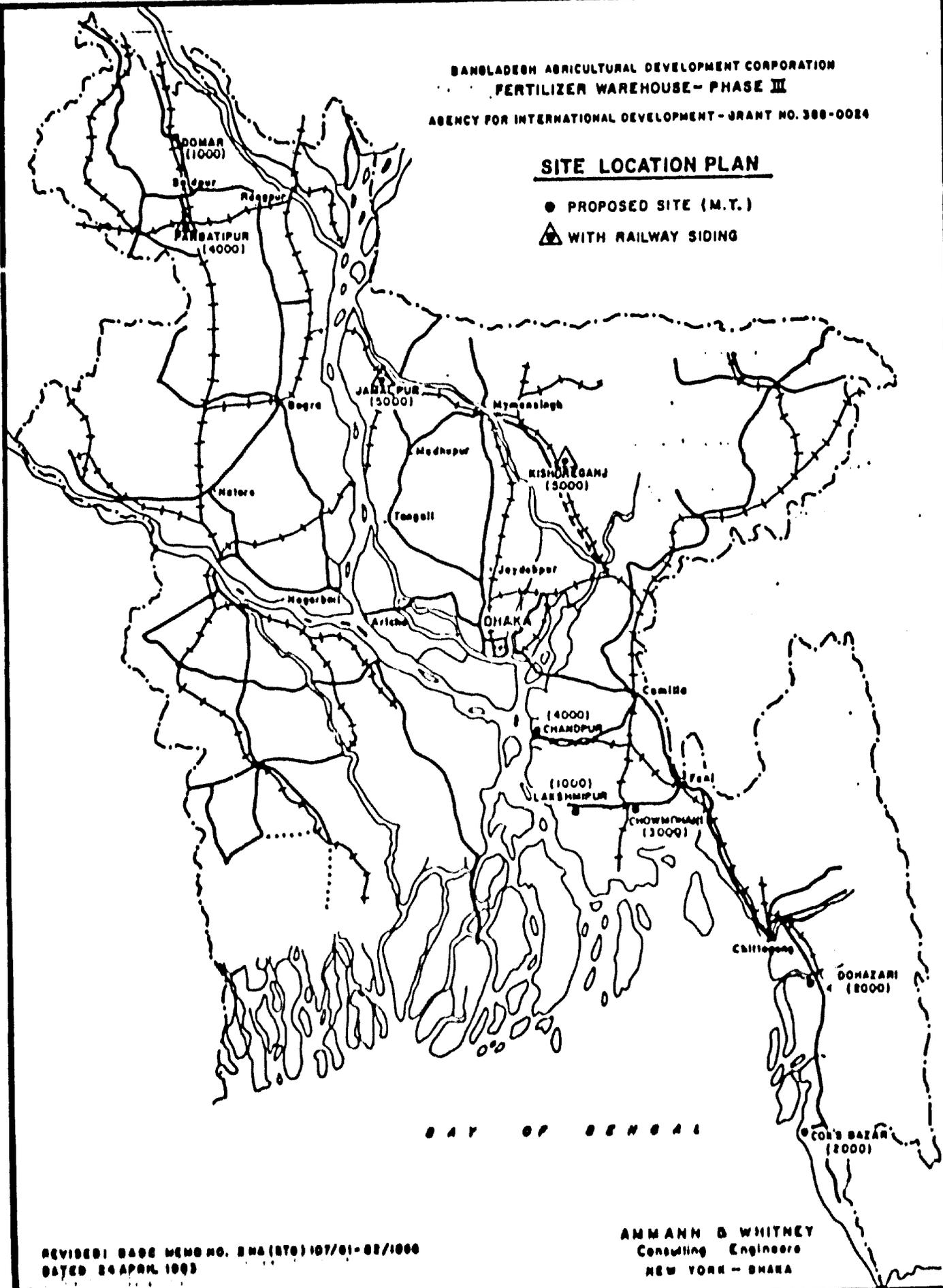
The major bottlenecks affecting the Consultant's method of procedure, execution and economic efficiency in carrying out the work are:

- a. BADC's acquisition of land at Kishoreganj and Chowmahani and permission for the Consultant to carry out topographic surveys and soil exploration.
- b. BADC's decision on location of godown within the Dhaka area.
- c. BADC's approval/comments on design concepts for ancillary buildings and warehouse.
- d. BADC's decision on procurement of vehicles.

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: BASE MEMO NO. BHA (RTO) 107/01-02/1000
 DATED 24 APRIL 1963

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

The following expatriate personnel have been approved for the project by BADO and USAID and are in-country:

		<u>Man-Months</u>	
		<u>Allocated</u>	<u>Utilized</u>
George A. Pecht	- Project Manager	27	4.6318
Harry S. Allen	- Chief Construction Engineer	25	2.8500
Samuel Heyman	- Foundation Engineer	6	5.0864
Colin G. Landrigan	- Structural Engineer	4	2.4500

1.3 Contract Administration

1.3.1 For action by BADO:

- Taka Imprest Account opened with Tk. 5,36,387.45 being the amount transferred from SD-84 vide letter Acct/Bank/14-20/82-83/664/1(5) dt. 12.4.'83. Balance amount yet to be transferred.
- Assist in obtaining multiple visas for foreign personnel. (2MA(Stg)83/82-83/1779, 4 April 83)
- Amendment No.1 to Consultant's Agreement extending duration to 30 June 1985.
- Obtain TAT approval for wireless license for radio communication. (2MA(SFO)139/81-82/1776, 4 April 83.)
- Approval to procure project vehicles. Refer 724-L.L.11/184, 15 Mar 83 and AID Letter No.449, 27.03.83.

1.4 Meetings

- 28 April 83 Office Project Director Design Concept of Ancillary Buildings and Warehouses and Site Layout Plans /298, 03.05.83

1.5 Supporting Bangladeshi Personnel

1.5.1 V U and SSL Personnel (Subcontract)

Designation	Man-Months	
	Allocated	Utilised
Deputy Project Manager	27	4.5938
SSM Engineer	24	3.6364
Structural Engineer	6	2.3500
Architect	4	2.7717
Electrical Engineer	6	-
Railway Engineer	24	1.9565
Office Engineer	26	3.9091
Land Procurement Officer	12	2.7196
Surveyor	25	2.8500
Instrument Man	25	2.8500
Rodmen	25	2.7000
Chairman	25	2.7000
Draftsman	54	12.2425
Laboratory Technician	56	3.8696
Laboratory Assistant	56	-
Estimator	48	1.7087
Senior Field Engineer	60	3.0000
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	4.4546
Senior Accountant	27	4.7273
Assistant Accountant	44	3.4545
Secretary	27	4.7273
Printer	27	3.0000
Typist	72	10.1773
Clerk	45	4.7273
Drivers	103	15.7072
Messenger	45	2.0000
Peon	72	6.7273
Guard	90	18.9091
Radio Operator	48	-

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	\$ 37,382	\$ 125,132
Services in Home Office	176,178	30,047	77,884
International Travel, etc.	85,740	191	5,937
Housing Allowances			
Per Diem, etc.	91,075	6,598	16,542
Logistic Costs	223,400	6,811	22,279
Supporting Staff	382,404	8,338	27,849
Misc. Direct Costs	43,000	169	192
Fixed Fee	205,460	7,610	38,050
	<u>\$ 1,953,445</u>	<u>\$ 97,146</u>	<u>\$ 313,865</u>
Percent of Estimated Budget		4.97%	16.07%
Percent Contract Time			15.32%
Special Project Activity	\$ 306,620	\$ 1,945	\$ 4,922

1.7 Billing and Payments

<u>Invoice No.</u>	<u>Period Ending</u>	<u>Letter No. & Date</u>	<u>Billing</u>	<u>Payments</u>
01	31 Jan 83	176, 10 Mar 83	\$ 42,629.38	\$ 95,117.01
02	28 Feb 83	194, 23 Mar 83	\$ 55,148.16	

. Mobilisation advance of 330,000 adjusted under Invoice No.01.

1.8 Reports

- . The Warehouse Design Concept Report submitted on 11 April 1983 by letter /225.
- . Monthly Progress Report No.4 for March 1983 submitted by letter /220, 6 April 1983.
- . Supplement to Ancillary Building Design Concept Report submitted /215, 4 April '83.

1.9 General

- . By copy of letter 2MA(ERC)107/81-82/1866 dtd. 24 April '83 the Consultant was informed of modifications in locations and tonnage of warehouses. These modifications require additional work (/254, 25 April 83) and the Consultant is documenting time spent.
- . Prior Permission from COLAB obtained except for vehicles, Air Conditioners, Ceiling fans and Exhaust fans. (2MA(ERC)/183/82-83/1845 dtd. 18 April 1983)
- . Mr. Mumunur Rashid Chowdhury has taken over charge of the office of Chief Engineer, Construction Division w.e.f. 31 March 1983.

2. PLANNING/DESIGN/PRODUCTION

2.1 Site Development Phase

2.1.1 Identification of Sites

By letter No. 2NA(Stg)107/81-82/1866 dated 24 April 1983 BADC confirmed 9 (nine) sites and dropped Gaibandha site. Warehouse capacities have been revised at Chandpur from 6000 MT to 4000 MT and at Domar from 2000 MT to 1000 MT. BADC will inform later the proposed site for the construction of a 6000 MT warehouse.

In order to inspect and evaluate various aspects of proposed construction at Chandpur site a field trip was made by the Chief Construction Engineer and the Structural Engineer on April 17, 1983.

Pending with BADC is permission to enter onto the sites at Kishoreganj and Chowmahani to complete soil investigation and survey.

BADC to transmit to the Consultant ownership and right of use documents and mouza maps for each site.

2.1.2 Site Status

By letter /756, 28.4.83 from Project Director (USAID Construction), BADC's comments on advance copies of land plan and site.

B1 Kishoreganj (5000 MT)

Soil exploration and survey works are held in abeyance and will be taken up as soon as BADC confirms site possession and permission to enter site.

O3 Jamalpur (5000 MT)

The Consultant has received BADC's comments on the draft layout plan submitted by letter "227, 12.04.83. Revised site layout plan is in preparation.

F1 Dohazari (2000 MT)

Acquisition of Government owned (Khas) land and taking over possession to be arranged by BADC.

Consultant reviewing BADC's comments on draft site layout plan (/246, 24 April 83). Revised layout plan is under preparation.

The soil investigation of the site indicate presence of clayey silt under laying by sand and silt. Due to the presence of a compressible clay layer below 67 feet pile foundation is not recommended and the Consultant suggests to preload the area to reduce effect of settlement. Alternative structure i.e. steel truss is under investigation for this site.

F3 Cox's Bazar (2000 MT)

The Consultant has requested BADC to procure land for access to river and also to procure land adjacent to site for use as temporary stack yard and working area during construction period. (/216, 05.04.83) BADC to take necessary action.

Site layout plan (/235, 18.04.83) is being revised to incorporate BADC's comments and will be resubmitted for BADC's and AID's approval.

H2 Chowmahani (3000 MT)

As informed by BADC, no soil investigation and survey works can be performed until land possession is obtained by BADC.

H3 Lakshmipur (1000 MT)

Preliminary site layout plan prepared by the Consultant (/242, 20.04.83) has been approved by BADC. The final layout plan is being developed.

I4 Chandpur (4000 MT)

By a letter dated 24 April 1983 BADC modified the warehouse capacity from 6000 MT to 4000 MT. Consultant to revise site layout plan (/249, 24.04.83) for modified warehouse capacity. BADC's comments on draft layout plan based on 6000 MT capacity is under review by the Consultant and a revised layout plan showing 4000 MT capacity warehouse will be submitted. BADC to arrange removal of existing structures affected by the proposed construction and easement of land for the construction of bridge over the canal at Sen Gupta Road for access to site. (/211, 03.04.83)

I4 Dumar (1000 MT)

BADC modified the warehouse capacity from 2000 MT to 1000 MT. The site layout plan submitted (/247, 24.04.83) is being revised to reflect applicable BADC's comments and reduced warehouse capacity.

O5 Partatipur (4000 MT)

The Consultant could not fix boundary pillars due to objection by local people. (/218, 05.04.83) BADC to finalise property demarcation and inform the Consultant for resurvey.

Site layout plan is under preparation by the Consultant.

2.1.3 Land Plans and Site Layouts

Land plans have been completed for Jamalpur, Dohasari, Cox's Bazar, Lakshmipur, Chandpur, Dumar and Partatipur.

Revised site layout plans are under preparation, incorporating BADC's comments and will be resubmitted for approval.

2.1.4 Soil Investigation and Topographic Surveys

Soil investigation at seven sites has been completed. Investigation at Chowmhani and Kishoreganj is pending BADC's permission to enter sites.

Depending on location of the warehouse, additional borings may be required at Parbatipur.

All laboratory testing for seven sites has been completed. Test results from all sites on which borings were taken except Parbatipur have been completed and are under review of the Foundation Engineer.

The Foundation Engineer is in the process of analysing the test results and preparing final report with recommendation of foundation types. Preloading of the sites to reduce settlement of the structure is under study and will probably be recommended for all sites.

Topographic surveys have been completed for all the available seven (7) sites.

2.1.5 Railway Siding

The layout plan of railway siding at Jamalpur has been finalized. The layout plan for railway siding at Parbatipur is under preparation.

2.2 Design and Estimate Phase

2.2.1 Design Review

Ancillary Building

Supplement to Ancillary Buildings Design Concept Report was submitted to BADC/AID by letter /215, 4 April 1983. By letter No.547, 17 April 1983, USAID commented on the design concepts. In reply, /245, 21 April 83 the Consultant presented his views. The design concepts were discussed in meeting held on 28 April in office of Project Director. Refer to /258, 3 May 83.

Warehouse

The Design Concept Report was submitted to BADC/AID on 11 April 1983 (/225). A Supplement was prepared, 26 April 1983, commenting on USAID's comments (Letter No.546, 18 April 83).

Final approval from BADC/AID on design concepts is pending.

2.2.2 Contract Documents

Draft of Instructions To Bidders, Form of Tender, Form of Agreement and Conditions of Particular Application submitted to BADC and AID for comments. (/228, 13.04.83)

Technical specifications are under preparation.

2.3 Construction Documents Plan

2.3.1 Prequalification Documents

Notice for prequalification has been published in local dailies on 6/7 April. Date of publication in CBD not known.

Prequalification forms are being supplied to the intending and qualified contractors on receipt of required documents. As of end of April, 53 firms have applied.

2.4 General

BSEC confirmed by letter BSEC/COM(M)/216/83/864 dated 21.04.83, that deformed bars conforming to British Standards can be supplied with minimum of three months lead. time.