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48



AGENCY FOR INTERNATIONAL DEVELOPMENT

Grant Financed

FERTILIZER DISTRIBUTION IMPROVEMENT - I (388-0024)

PB-ADDC-388
3880024/53
150-1207

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

PROGRESS REPORT NO.8

JULY 1983



AMMANN & WHITNEY
CONSULTING ENGINEERS
NEW YORK

in association with



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AMMANN & WHITNEY
25, 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

724-2.1.1/523
07 August 1983

Subject : Monthly Report No.8
- July 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.8 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 (Irrigation), BADC w/encl. (1)
Manager (Storage) BADC w/encl. (1)
Chief Engineer (C) BADC w/encl. (1)
Mr. Ralph Bird, AID/Dhaka w/encl. (6)
File 724-2.1.1/523 w/encl.

AMMANN & WHITNEY
Consulting Engineers

FERTILIZER WAREHOUSES - PHASE III

Monthly Progress Report No.8
Month of July 1983

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PROJECT SUMMARY

1. Project Designation : Construction of Bagged Product Fertilizer Warehouses 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
\$ 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>	
<u>Time Elapsed</u>	<u>Estimated Cost Incurred</u>	<u>Time Elapsed</u>	<u>Estimated Cost Incurred</u>
7.75 month	\$565,023	-	-

12. Comments:

- a. BADC's action is required on following:
 - a. Decision on procurement of project vehicles.
 - b. Releasing payments withheld and due to Consultant in accordance with the contract.
 - c. Scheduling of periodic coordination and project meetings.
 - d. Obtaining BR approval for railway sidings and their estimate for same.
 - e. Approving final draft of Contract Documents.
 - f. Approving ancillary building drawings.
 - g. Obtaining USAID's approval of Demra site.
 - h. Take over possession of Dohazari site.

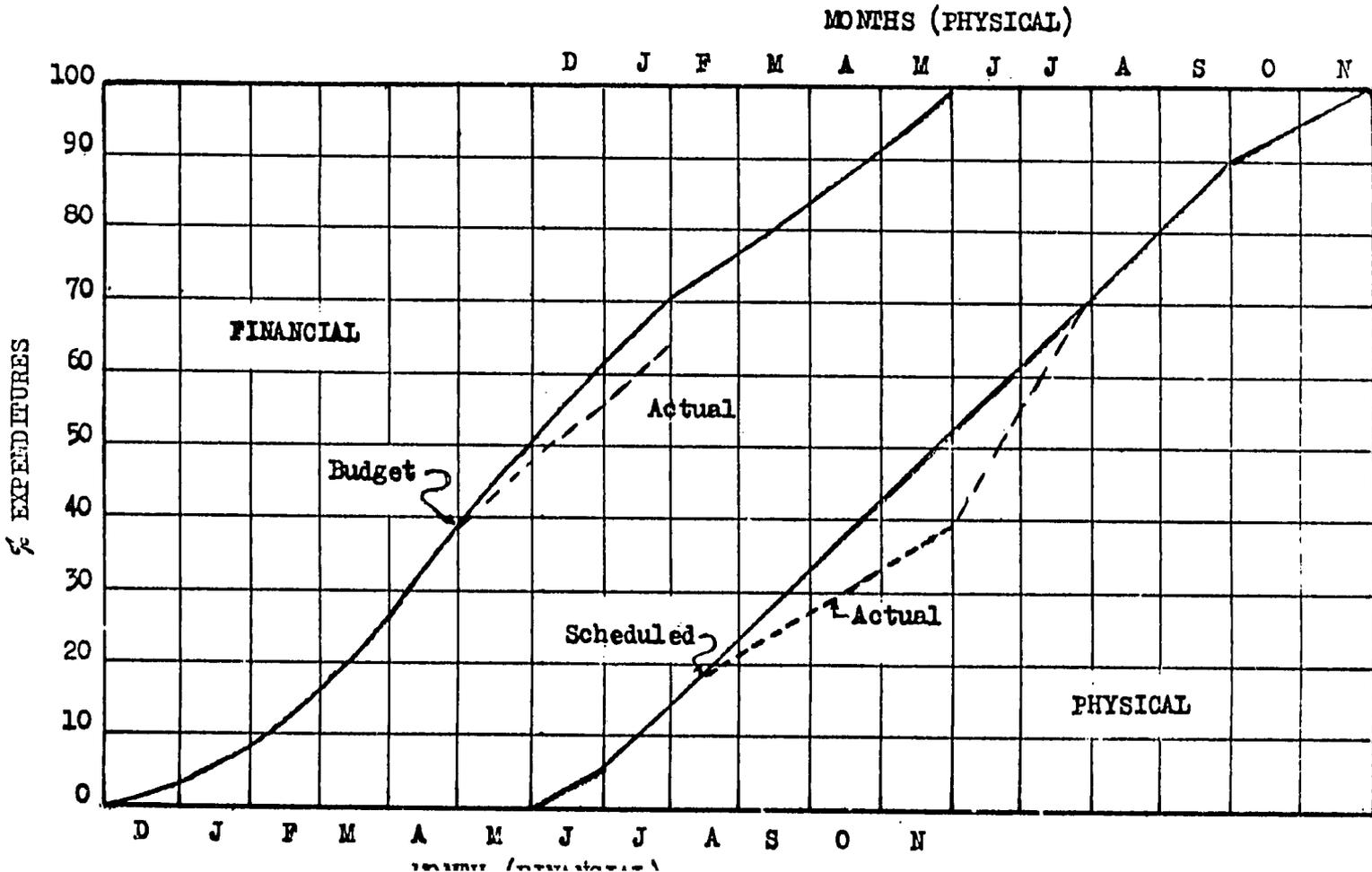
WAREHOUSES PHASE III
FINANCIAL-PROGRESS SCHEDULES

PRE-CONSTRUCTION PHASE (PCP)
SCHEDULE FOR SEVEN AVAILABLE SITES

TOTAL PROJECT BUDGET ^x	\$1,953,445		THIS MONTH	TO DATE
ESTIMATED BUDGET FOR PRECONSTRUCTION PHASE	\$ 825,000	ELAPSED CONTRACT TIME (DAYS)	31	234
TOTAL EXPENDITURES TODATE	\$ 525,321 ^{xx}	NO. PCP EVENTS SCHEDULED FOR COMPLETION	4	21
% EXPENDITURE TO TOTAL BUDGET	26.9 %	NO. OF PCP EVENTS COMPLETED	1	14
% EXPENDITURE TO PCP	63.7 %	PERCENT PCP COMPLETED	16%	71%
		PCP EVENTS REMAINING	-	15
		DAYS TO SCHEDULED PCP COMPLETION	-	116
		PROJECTED DAYS TO ACTUAL PCP COMPLETION		116
		DAYS EARLY (LATE) PROJECTED PCP COMPLETION		0

^x Excludes \$306,620 for Special Project Activity

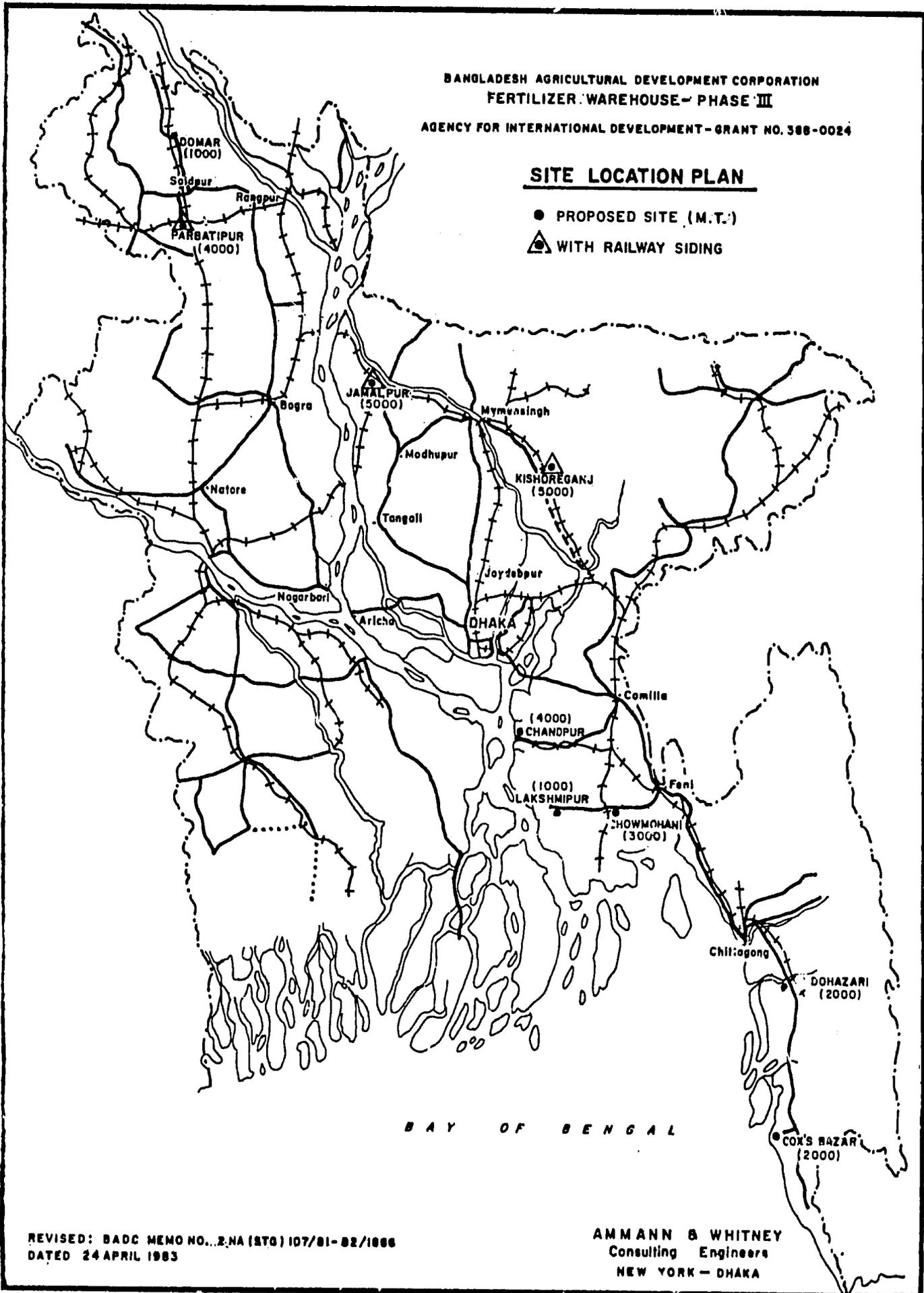
^{xx} Estimated and excludes \$ 39,702 for Special Project Activity



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

The following expatriate personnel have been approved for the project by BADC and USAID:

		<u>Man-Months</u>	
		<u>Allocated</u>	<u>Utilized</u>
George A. Pecht	- Project Manager	27	7.45
Harry S. Allen	- Chief Construction Engineer	25	5.56
Samuel Heyman	- Foundation Engineer	8	5.90
Colin G. Lendrigan	- Structural Engineer	6	4.90

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

2/ Mr. Lendrigan departed Bangladesh to USA on 19 July. He will be recalled when his services are required for design of godowns at Chowmhani, Kishoreganj and Dhaka sites. (2NA(STG)183/82-83/19, 17.07.83)

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 724-1.1.11/456, 06.07.83.
- Processing of payment for balance of invoices withheld. (/388,15.06.83)

1.4 Meetings

- 17.07.83 Consultant's Office Status of Site Acquisition
- 18.07.83 Consultant's Office Contract Documents
- 20.07.83 Consultant's Office Contract Documents
- 26.07.83 Consultant's Office Contract Documents
- 26.07.83 IECC's Office Railway Procurements

1.5 Supporting Bangladeshi Personnel

1.5.1 WEL and SSL Personnel (Subcontract)

<u>Designation</u>	<u>Man-Month</u>	
	<u>Allocated</u>	<u>Utilized</u>
Deputy Project Manager	27	7.2767
S&M Engineer	24	6.6364
Structural Engineer	6 x	5.302 8
Architect	4	3.8309
Electrical Engineer	6 x	1.5238
Railway Engineer	24	4.9089
Office Engineer	26	6.9091
Land Procurement Officer	12	4.7196
Surveyor	25 x	5.7548
Instrument Man	25 x	5.7548
Rodman	25 x	5.6040
Chairman	25 x	5.6048
Draftsman	54 x	28.7447
Laboratory Technician	56 x	9.7744
Laboratory Assistant	56	-
Estimator	48 x	5.4658
Senior Field Engineer	60	6.0000
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	7.4546
Senior Accountant	27	7.7273
Assistant Accountant	44	6.2472
Secretary	27	7.7273
Printer	27	5.9524
Typist	72	19.1319
Clerk	45	7.7273
Drivers	103	27.5194
Messenger	45	4.9091
Peon	72	14.5888
Guard	90	30.9091
Radio Operator	48	-

x 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	\$ 29,187	\$ 226,131
Services in Home Office	176,178	2,268	104,021
International Travel, etc.	85,740	1,506	7,443
Housing Allowances Per Diem etc.	91,075	6,633	33,701
Logistic Costs	223,400	4,227	35,688
Supporting Staff	382,404	7,353	52,129
Misc. Direct Costs	43,000	-	5,328
Fixed Fee	205,460	7,610	60,880
	<u>\$ 1,953,445</u>	<u>\$ 58,784</u>	<u>\$ 525,321</u>
Percent of Estimated Budget		3.01%	26.89%
Percent Contract Time			25%
Special Project Activity	\$ 306,620	\$ 19,669	\$ 39,702

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 - 02	28 Feb 83	-	\$ 97,777.54	\$ 95,117.01
03	31 Mar 83	266, 04 May 83	\$ 90,180.24	\$ 89,289.35
04	31 May 83	434, 03 July 83	\$142,728.90	Pending

1.8 Reports

- Monthly Progress Report No.7 for June 1983 submitted by letter /443, 6 July 1983.

1.9 General

Following the Government's announcement, the cost of the following items have been increased substantially and will have an effect on the project estimated expenditures.

1. Gas - 26.3% increase
2. Telephone - 33.3% increase
3. Electricity - 2.4% increase
4. Domestic Air fare - 25.0% increase

1.10 Progress Schedule

The Financial - Progress Schedule" and "Activity Schedule" included in this report is based on the seven sites made available to date by BADC. The elapsed time expended on the project by the Consultant shown in the Activity Schedule and reflected in the Financial-Progress Schedule includes:

- 1) land/topographic surveys and soil borings at Gaibandha which site was subsequently excluded from the project by BADC;

- 2) land/topographic survey and preparation of land plan and site layout at Kishoreganj site;
- 3) land/topographic surveys and soil borings at Parbatipur site at location of godown selected under Phase II which has now been discarded; and,
- 4) investigations for a "Dhaka" site.

1.11 Activity Schedule (7 sites)

Note 1:

As per the Consultant's contract, BADC confirmed that ten sites have been acquired in December 1982 for the planned construction. As of 30 June 1983, the following sites were made available to the Consultant by BADC for topographic and land surveys and soil investigation :

O3 Jamalpur
F1 Dohazari
F3 Cox's Bazar
H3 Lakshmipur
I4 Chandpur
L4 Domar
O5 Parbatipur

As informed by BADC, Chowmuhani site was available for taking soils borings on 24 July and Kishoreganj will be available on 1 August. BADC on 31 July has requested USAID's concurrence for locating Dhaka site at Demra. Due to flood waters and monsoon rains, soils investigation, topographic surveys and subsequent design efforts cannot be realistically scheduled.

Refer to paragraph 2.1.2, Site Status, of this report for update information of each site.

Note 2:

Topographic and land surveys were completed at Gaibandha and Kishoreganj sites. Gaibandha site was subsequently deleted from the program.

Note 3:

- a. Soil borings were completed at Gaibandha site prior to BADC deleting this site from program.
- b. Soil borings at Parbatipur site were taken in the area designated under Phase II for the location of the godown. Subsequently, the planned godown was relocated to a more desirable location within the Parbatipur site which provides for the existing godowns to be served by the proposed railway sidings.

Note 4:

Time extended from 15 June to 22 June for interested firms to submit prequalification questionnaire due to issuing of clarification to invitation to prequalify.

Note 5:

Godown capacity at Chandpur and Domar revised on 24 April 1983.

1.12 Activity Schedule (3 sites)

Chowmuhani

Property and topographic surveys and soil investigation completed in July. Due to the site being 3 ft. under water, the property corners established are only approximate and will require confirmation at later date. The monsoon rains and flood waters affected the progress of work. Testing of soil samples is in progress with completion scheduled for 11 August and final soils report by 18 August.

Land plan and site layout scheduled for completion in August.

Kishoreganj

Scheduled for 1 August is soil investigation program. Estimated completion of field work by 10 August; testing of samples by 19 August; and final soils report by 25 August.

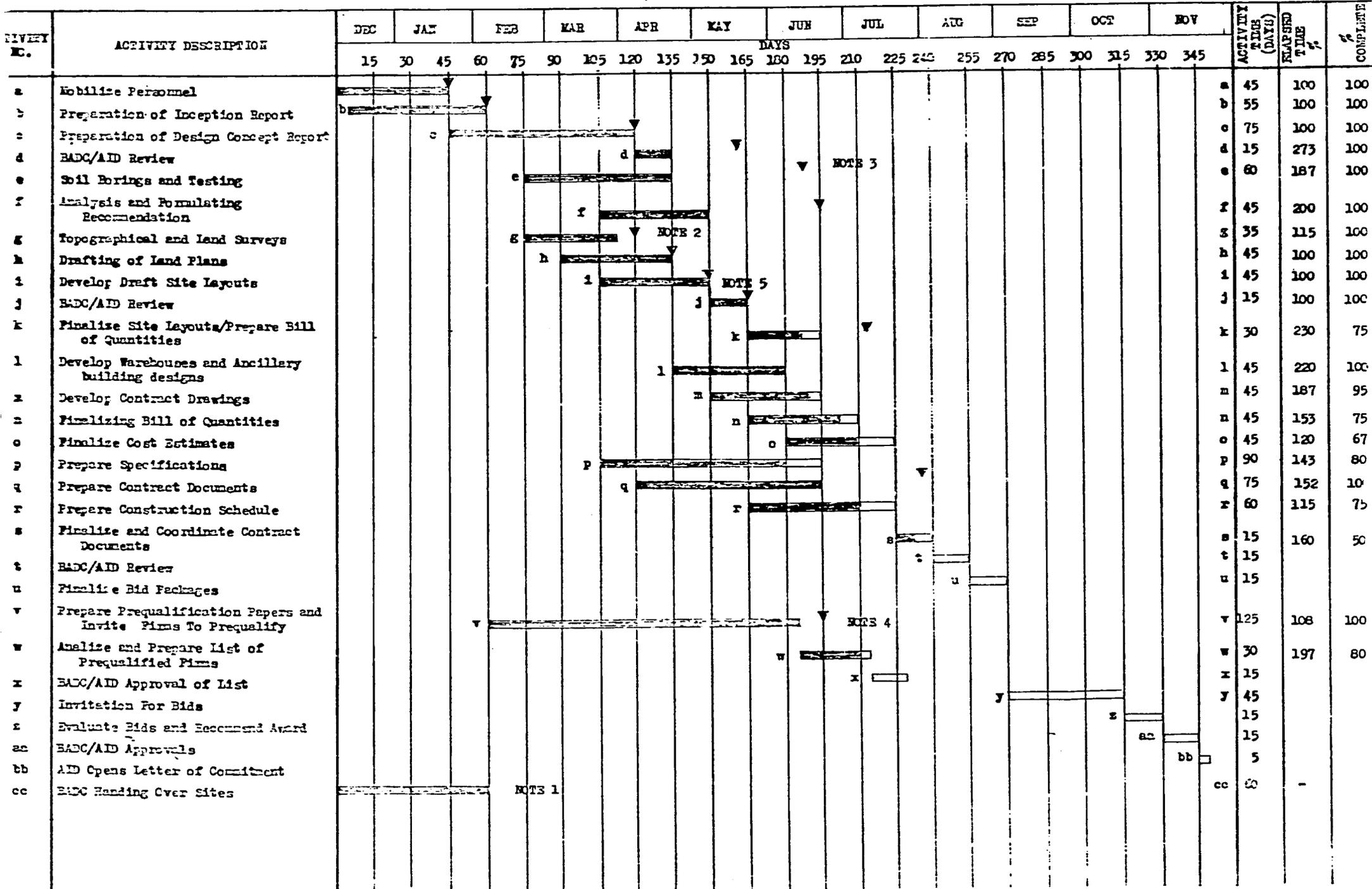
Dhaka (Demra) Site

Scheduled for August is preliminary surveys and site layouts to determine additional land requirements.

 SCHEDULED
 RESCHEDULED
 100% COMPLETION
 COMPLETED

BANGLADESH AGRICULTURAL DEVELOPMENT CORPORATION
 WAREHOUSES PHASE III
 PRECONSTRUCTION PHASE
ACTIVITY SCHEDULE (FOR 7 SITES)

31 July, 1983
(MONTH ENDING)



NOTE 1

NOTE 3

NOTE 2

NOTE 5

NOTE 4

2. PLANNING/DESIGN/PRODUCTION

2.1 Site Development Plan

2.1.1 Identification of Sites

BADC selected a "Dhaka" site located at West Muktarpur. The Consultant conducted preliminary surveys and prepared a site layout (SK-A2-01, 07.07.83) for BADC. This site was subsequently rejected by USAID as not being a suitable alternate to the Demra site due to not being located to service the "Dhaka" distribution area.

BADC has in possession 9.05 acres of land at Demra and has requested AID for inclusion of this site in Phase III project.

Permission of BADC to enter (1) Chowmahani for survey and soil investigation work (/39, 20.07.83) and (2) Kishoreganj for soil investigation (/40, dt. 20.07.83) has been obtained.

The possession certificate for Kishoreganj site received by the Consultant indicates some discrepancy in area of land acquired and BADC has been requested for confirmation of the area acquired from plot No.1488 (/502, 21 July 1983).

2.1.2 Site Status

B1 Kishoreganj (5000 MT)

The possession of site was received by BADC on 19 July 1983. BADC informed the Consultant to carry out soil investigation work. Soil investigation team has been mobilized (31 July 1983) to start work from 1 August 1983.

Clearance from Bangladesh Railway for railway siding is under process by BADC.

BADC to take action to relocate telephone and power lines. BADC to reconfirm land schedule. (/502, 21.07.83)

C3 Jamalpur (5000 MT)

BADC to confirm the property line demarcated on the land plan with actual land acquired.

Clearance from BR for railway siding is under process by BADC. Clearance from local authority for relocating access road is under process by BADC.

BADC to take action to evict persons living in the acquired area.

F1 Dohazari (2000 MT)

The Government has agreed to permanently lease out the khas land for construction of proposed 2000 MT godown. BADC has been requested by the Consultant to inform them of taking over possession of the land so that they may resurvey the property boundaries and prepare final land plan drawing (/498, 20 July 1983).

F3 Cox's Bazar (2000 MT)

BADC to acquire land for access to river.

BADC to remove existing structures from the site.

BADC to arrange relocation of power lines from the site.

H2 Chowmuhani (3000 MT)

Possession of the site was received by BADC on 17 July 1983. Upon receipt of information of the availability of the site and instruction from BADC, the survey and soil investigation teams were sent to site on 24 July 1983 (/499, 20 July 1983).

The boundary survey work for the site is preliminary (28 July 1983) due to flood waters (3 ft.) and therefore BADC's inability to locate accurately boundary corners. Precise surveys will be done when water recedes and property corners are accurately located by BADC.

Soil investigations at site progressed slowly due to 2-3 feet of standing water. Soil samples were collected with great difficulty.

Site layout drawing was prepared based on available information of probable property limits and submitted to BADC for comments. (/499, 20.07.83). The layout was approved.

H3 Lakshmipur (1000 MT)

No apparent problem with the site.

I4 Chandpur (4000 MT)

BADC to take effective measure to remove designated existing structures within the site.

As per information from BADC, easement to construct bridge to Sen Gupta Road has been obtained from Municipality.

I4 Domar (1000 MT)

BADC to take possession of site and area for contractors facilities from Seed Multiplication Farm.

05T Parbatipur (4000 MT)

Acquisition of land from Bangladesh Railway is required for meter gauge siding.

Clearance is required from BR for siding layout.

All land acquisition documents to be physically verified.

2.1.3 Land Plans and Site Layouts

Land plans were completed for Kishoreganj, Jamalpur, Chandpur, Lakshmipur, Dohazari, Cox's Bazar, Domar and Parbatipur. Site layouts for these site were revised and subsequently approved by BADC. Subject to verification of property lines by BADC, the layout plans prepared by the Consultant has been approved by BADC.

2.1.4 Soil Investigation and Topographic Surveys

Topographic and land surveys for all the sites mentioned under 2.1.3 have been completed. The property corners Dohazari site will be resurveyed after possession is taken over by BADC.

Preliminary survey works completed during month for Chowmuhani site. Resurvey will be required after the flood waters recede.

2.1.5 Railway Siding

Detailed layouts of railway sidings for Kishoreganj, Jamalpur and Parbatipur and materials required for the respective sites have been prepared and submitted to BADC. Railway siding layouts have been sent to BADC for transmittals to BR for obtaining their approval and estimates. The Consultant is preparing drawings showing **details** of track layout and will transmit to BADC for onward transmission to BR.

Following meeting with IECC on July 26, 1983, the Consultant has submitted an estimate of materials/equipment for railway sidings to BADC showing (A) Procurements through IECC and (B) Furnished by Bangladesh Railway. BADC has been requested to contact BR to furnish cost estimate for construction of railway sidings at Kishoreganj, Jamalpur and Parbatipur sites (/503, 27 July 1983). BADC furnished to BR copies of drawings of Land Plan and Site Plans for each site for proposed railway siding and related estimate of materials/equipment for the respective sites (Memo No.25/1(5) dt. 18.07.83).

2.2 Design and Estimate Phase

2.2.1 Design

Detailed design and preparation of contract drawings for Godown and Ancillary Buildings have been completed for the available sites. Copy of the Ancillary Building drawings have been sent to BADC (Project Director) for approval. (A&W letter No./516, 31 July 1983).

Bill of Quantities

Detailed quantity take off based on the contract drawings nearing completion.

Construction Cost Estimates

Pending completion of Bill of Quantities.

Construction Schedule

Preliminary construction schedule already completed and will be finalized shortly.

2.2.2 Contract Documents

BADC (Project Director) has been supplied for approval with final draft of Instructions To Bidders, Form of Tender, Form of Agreement and Conditions of Particular Application.

Preparation of Technical Specification is in progress.

2.3 Construction Documents Plans

2.3.1 Prequalification Documents

30 of the 68 prequalification documents that were received were not in compliance with paragraph 9 and 10 of Invitation To Prequalify or did not contain a certified financial statement revealing current assets and current liabilities of applicants. The 30 firms were notified by letter of the aforementioned (/482 dated 7 July 83) and were requested to comply with paragraph 9 and 10 and submit a revised financial statement no later than July 20. This date was later extended until July 24 due to the Eid holidays.

Scheduled interviews and physical investigation of offices, equipment and previous projects of the firms responsive to the invitation are under process. The Consultant has scheduled recommending to BADC and USAID a list of firms prequalified by mid-August 1983.

2.4 General

- BADC to take action in obtaining estimated from PDB on tapping points for supply of electricity to each site.

- BADC requested USAID to include, under the grant, road improvement to Jamalpur, Domar and Farbatipur sites. (2NA(Stg)107/81-82/29, 18.07.83)
- By Manager (Storage) BADC Memo 2NA(Stg)183/82-83/11 dtd. 7 July 1983 the Consultant was informed that the following sites would be made available by 31 July for soil investigations and other preliminary and preparatory works required for design. EADC requested that the Consultant extend the services of the Structural Engineer and Foundation Engineer up to 60 days from that allocated to complete the work at these sites:

Chowmuhani, Dohazari, Kishoreganj, Dhaka.