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PD-AAF-857431

**Bangladesh Agricultural Development Corporation
USAID Fertilizer Distribution
Improvement Grant 388-0024**

**Engineering Consultancy Services
Contract for Bagged Product
Fertilizer Warehouses Project**

MONTHLY PROGRESS REPORT NO. 2

November 1979

**CONSULTING
ENGINEERS
INTERNATIONAL ENGINEERING COMPANY, INC.
A MORRISON-KNUDSEN COMPANY**

CONTRACT 9074

12 December 1979

BANGLADESH AGRICULTURAL DEVELOPMENT CORPORATION
ENGINEERING CONSULTANCY SERVICES CONTRACT
FOR BAGGED PRODUCT FERTILIZER
WAREHOUSES PROJECT

INTERNATIONAL ENGINEERING COMPANY, INC.
CONSULTING ENGINEERS

MONTHLY PROGRESS REPORT NO.2
FOR THE PERIOD NOVEMBER 1-30, 1979

1. GENERAL:

Remodeling and new construction of House No. 29, Road No. 8 offices was in progress throughout November, but still incomplete at the end of the month. The project staff operated on the ground floor of the premises, with only minor problems due to construction. The local IECO administrative staff numbered fifteen personnel; the November Force Report is appended.

DCS, IECO's associated subcontractor, mobilized two complete survey parties, four drivers and 2 soils technicians during the month. With the office engineering and drafting personnel, DCS staff numbered 26 at the end of November. The DCS Force Report is appended.

2. CONTRACT ADMINISTRATION:

Housing - A total of four houses are under lease, being furnished, equipped and readied for occupancy. All are in Banani.

Project Vehicles - Two International Harvester Scout wagons obtained from IECO source were in operation. Two Toyota Land Cruisers were obtained from BADC, and in operation as survey vehicles. One additional Toyota Land Cruiser was on rental from a private party.

A Nissan Cedric Town Wagon was leased from Petrobangla; and arrangements made for BADC to purchase this vehicle as well as a Toyota Sedan from Petrobangla. At the end of the month, Petrobangla had not yet determined the appropriate selling price, and the purchase was still pending.

At the end of November an additional field vehicle was being sought, for use in the site reconnaissance and soils investigation programs.

Offshore Procurement - Shipment of the 26 Air Conditioners and 5 Refrigerators slated to arrive in Dacca in November was delayed (due to disruptions to Biman's schedule on account of Mecca/Jeddah events); the shipment rescheduled to arrive on December 13. Washers/Dryers were purchased in Singapore and are to be shipped in December. Procurement of various office supply items was arranged with San Francisco.

A number of procurement actions were pending at the end of November, involving office machines, stoves, freezers, printing and duplicating equipment. Price quotations for some items were insufficient, and additional quotes were solicited.

Local Procurement - Procurement of some items was made on the local market, notably hot water heaters, ceiling fans and household furniture. Some additional local purchases are anticipated.

Import Privilege - Prior permission to import a partial list of the project equipment and materials was obtained at the end of the month. A request covering the balance of the items will be made in December.

3. CONTRACT EXPENDITURES:

The financial report for the month of November lists reimbursable Taka expenses for the following major items:

Local Salaries	Taka	26,929.00
Office Supplies & Expenses		13,436.60
Office Lease Advance Payment		50,000.00
Vehicle Expenses		13,849.12
House Rents & Advances		167,750.00
Furniture & Equipment		5,605.00
House Maintenance		2,230.00
Other		<u>1,407.48</u>
Total Expenses	Taka	281,207.20

4. EXPATRIATE STAFFING:

Arrangements were completed for the assignment of Mr. Michael Lim, Construction Engineer, who is to arrive in Dacca on December 4. The Soils and Materials Engineer, Mr. Allen Btay arrived in Dacca on November 20.

With these arrivals, IECO's expatriate staff will number 6 personnel. Staff dependents in-country include 2 wives and 4 children.

5. ENGINEERING STUDIES:

Engineering work was in progress throughout November in both San Francisco and the Dacca project office:

San Francisco Office activities included preliminary design and preparation of schematic drawings for the super-structure of a modular, steel frame warehouse building; determination of comparative costs of fabricated steel from United States, Taiwanese or Korean mills; and estimation of structural steel member and roofing quantities required for the proposed Phase II program. San Francisco also developed outline specifications for fabrication and erection of the structural steel. A preliminary drawing of proposed modular framing configurations for various warehouse building sizes was presented in the Inception Report, prepared in Dacca for submission at the end of November

Dacca Office engineering activities included the preparation of large area study maps; one depicting the Thanas, Districts and Divisions of Bangladesh, and listing projected fertilizer sales volumes for the year 1990; and a second depicting the road, rail and water transportation network of the country. On both maps, the existing BADC warehouses which will be a part of the primary fertilizer distribution system were shown, as well as the 35 candidate locations for the USAID-financed Phase II Warehouse Program now being developed.

The maps will serve as a primary tool in planning an optimum network of primary distribution warehouses to provide all of the districts in Bangladesh with storage capacity sufficient to meet fertilizer needs in the period 1985-1990.

Study for preparation of this plan, the National Fertilizer Storage Plan (NFSP), was underway during the month: an analysis was made of present and planned BADC warehouse capacity vis-a-vis future year projected requirements, for each of the country's twenty Districts. Results were tabulated and prepared for presentation in the Inception Report.

A District-by-District study of proposed Primary Distribution Point (PDP) warehouse locations and sizes was begun during the last week of the month, utilizing the maps and capacity requirement determinations described above to evaluate a candidate list of some 92 PDP locations nationwide, prepared by BADC in mid-1979. Recommendations for location and size of the PDP warehouses, which will constitute the Outline National Storage Plan, will be made in December.

The Dacca office also prepared drawings of the topographic surveys carried out at a number of proposed warehouse sites, as described below; and quantified and estimated costs of site development work at 15 locations, for inclusion in the Inception Report.

Field Engineering during the month included inspection of candidate warehouse sites at Daudkandi, Chandpur, Comilla and Brahmanbaria; and topographic surveys of those sites as well as proposed sites in the Khulna Division: Shiromoni, Jessore, Kaliganj, Magura, Kushtia and Chuadanga. The status of site identification and location, land purchase and survey work is shown on Exhibit A, attached. It may be compared with the Preliminary Site Planning Status list included in Monthly Progress Report No. 1 for October, to see changes at specific sites.

EXHIBIT A

PROPOSED USAID GRANT-PHASE II PROGRAM
GENERAL SITE PLANNING STATUS

30 November 1979

	Size '000T	Located Yes / No	Purchased Yes / No	Surveyable Yes / No	Surveyed Yes / No
<u>DACCA DIVISION</u>					
<u>Dacca District</u>					
Demra	15	Yes	No	Yes	No
<u>Tangail District</u>					
Modhupur	3	No			
<u>Jamalpur and</u>					
<u>Mymensingh Dist.</u>					
Sherpur	3	Yes	No	Yes?	No
Mymensingh	3	Yes	Yes?	Yes	No
<u>Kishoreganj Dist.</u>					
Kishoreganj	4	No			
Netrokona	3	No			
<u>Faridpur District</u>					
Madaripur	2	No			
<u>CHITTAGONG DIVISION</u>					
<u>Chittagong District</u>					
Chittagong	10	No			
Cox's Bazar	4	Yes	Yes	Yes	No
Dohazari	4	Yes	No	Yes?	No
Chokoria	4	No			
<u>Noakhali District</u>					
Chowmuhani	4	No			
Luxmipur	2	Yes	Yes	Yes	Yes
<u>Comilla District</u>					
Comilla	6	Yes	Yes	Yes	Yes
Daudkandi	4	Yes	Yes	Yes	Yes
Chandpur	10	Yes	Yes	Yes	Yes
Brahmanbaria	6	Yes	Yes	Yes	Yes
<u>Sylhet District</u>					
Sylhet	3	No	No	No	No
Shaestaganj	2	Yes	Yes	Yes	No

	Size	Location		Purchased		Surveyable		Surveyed	
	'000T	Yes	No	Yes	No	Yes	No	Yes	No
<u>KHULNA DIVISION</u>									
<u>Khulna District</u>									
Shiromoni	10	Yes		Yes		Yes		Yes	
<u>Jessore District</u> (insufficient area)									
Jessore	4	Yes			No			Yes	
Jessore (Alternate)	4	Yes	IECO (preferred site)		No	Yes		Yes	
Kaliganj	2	Yes		Yes?		Yes		Yes	
Magura	2	Yes		Yes		Yes		Yes	
<u>Kushtia District</u>									
Kushtia	6	Yes		Yes		Yes		Yes	
Chuadanga	4	Yes		Yes		Yes		Yes	
Chuadanga (Alternate Site)	4	Yes	IECO		No	Yes			No
<u>RAJSHAHI DIVISION</u>									
<u>Rajshahi District</u>									
Rajshahi	6			No					
Natore	4	Yes	IECO		No				No
Rohanpur	2	Yes		Yes		Yes			No
<u>Dinajpur District</u>									
Dinajpur	4	Yes		Part		Yes			No
Parbatipur	6	Yes			No	Yes?			No
Thakurgaon	4	Yes	IECO		No	Yes?			No
<u>Rangpur District</u>									
Saidpur	4	Yes	IECO(2)		No	Yes?			No
<u>Bogra District</u>									
Bogra	4	Yes			No	Yes?			No
Santahar	10	Yes	IECO		No	Yes?			No
<u>Pabna District</u>									
Baghabari	6			No					

INTERNATIONAL ENGINEERING COMPANY, INC.

FORCE REPORT

30 November 1979

<u>No.</u>	<u>TABLE</u> <u>Position</u>	<u>ACTUAL</u> <u>Title</u>	<u>Name</u>
1	Office Manager	-	-
1	Sr Acct	Sr Acct	Farid
2	Asst Acct	Accountant Admin Asst	Salam Khurshid
2	Secretary	Secretary Secretary	Majid Rahman
1	Expeditor/ Purch. Agt.	Expeditor Purch. Agt.	Chowdhury Rozario
2	Typist	-	-
2	Messenger	Messenger/ Off. Boy Off. Asst.	Rashid Karim
2	Guard	Guard Guard	Shahid Arifullah
1	Printer	Printer	Danzil
3	Driver	Driver Driver Driver	Alauddin Sobhan Shafique

DEVELOPMENT CONSULTANCY SERVICES LTD.

FORCE REPORT

30 November 1979

<u>Name</u>	<u>Position</u>
1. Quasi Hamidur Rahman	APM
2. Sk. Rezaul Haque	Engineer
3. A. F. M. Mahfuzzaman	Engineer
4. A. Sobhan Sarkar	Chief Surveyor
5. Abu Taleb	Draftsman
6. A. K. Roy	Draftsman
7. Serajul Islam Dhuiyan	Soil/Lab. Tech.
8. Md. Zakir Shamseri	Soil Asst.
9. Abdur Rab Hridah	Survey Party Chief 1
10. Abdus Sobhan	Survey Party Chief 2
11. Abdul Motaleb	Instrument Man
12. Abdul Jabber	" "
13. A. Sattar	Chain Man
14. Zainal Abedin	"
15. Abdul Aziz	"
16. A. Razzak	"
17. Nasiruddin	Rodman
18. Siddiqullah	"
19. Sadequillah	Survey Aid
20. Idris Ali	"
21. Wali Ullah	"
22. A. Salam	"
23. Rahmat Ullah	Driver
24. Malek Fakir	"
25. Md. Ismail	"
26. Lut Ear Rahman	"
