

**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. 51**

**DECEMBER 1983**

**CONSULTING  
ENGINEERS**

**INTERNATIONAL ENGINEERING COMPANY, INC.**

**A MORRISON-KNUDSEN COMPANY**

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USAID Fertilizer Distribution  
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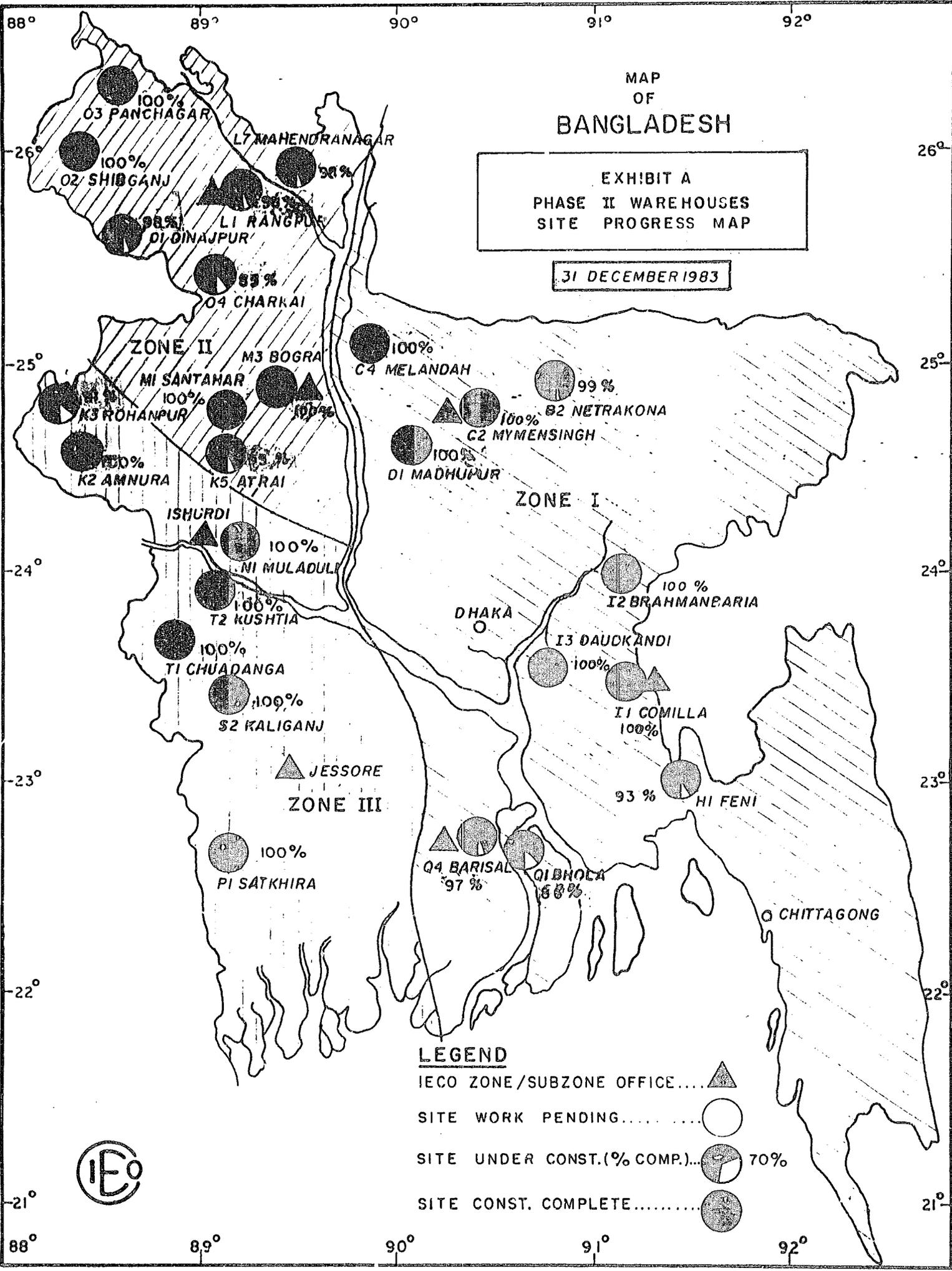
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MAP  
OF  
BANGLADESH

EXHIBIT A  
PHASE II WAREHOUSES  
SITE PROGRESS MAP

31 DECEMBER 1983

ZONE II

ZONE I

ZONE III

LEGEND

- IECO ZONE/SUBZONE OFFICE.....▲
- SITE WORK PENDING.....○
- SITE UNDER CONST. (% COMP.)... 70%
- SITE CONST. COMPLETE.....



## MONTHLY PROGRESS REPORT NO. 51

MONTH OF DECEMBER, 1983

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

INTERNATIONAL ENGINEERING COMPANY, INC.  
CONSULTING ENGINEERS

MONTHLY PROGRESS REPORT NO. 51  
FOR THE PERIOD DECEMBER 1-31, 1983

1. GENERAL

Construction reached substantial completion at two sites, Melandah Bazar and Madhupur, and certificates of substantial completion are being issued by the Engineer with effective date of 31 December 1983. Work neared completion at six other sites; Netrakona, Barisal, Rangpur, Mahendranagar, Dinajpur and Atrai, with expectation that the Contractor will be able to finish up in January. At three sites, Bhola, Charkai and Feni, the Contractor can complete all work in January by adopting double-shift work programs to expedite the finishing operations. Double-shift operations have been adopted at Bhola, and are being adopted at Feni where pavement construction progress has been slowed by rainy days. The Contractor has been asked to expedite his operations at Charkai to meet the end-January schedule. At the remaining site, Rohanpur, the buildings can easily be completed in January; but the riverbank slope protection works may require until mid-February to complete.

The Contractor's formal request for an extension of time for completion of construction at Bhola site and also at Rohanpur site, submitted to the Engineer in November, was evaluated, and an interim extension of time of 31 days, to Feb. 29, 1984, granted.

Necessary final agreements were reached between BR, BADC and USAID for funding the rail siding materials procurements. BR construction operations are being implemented at some sites and remain pending at others. The sitewise status of on-site rail siding construction arrangements is reported on in Section 7.3 of this report.

For details of sitewise warehouse site construction progress please refer to Section 8 of this report. The overall project schedule chart following Section 9 provides numerical and graphic representation of the progress toward completion of this program.

Overall, the Phase II construction program is 97.8% complete against the 98.9% scheduled. The 3.9% progress in December brings the construction work to its final stage at all ten remaining active sites. A significant amount of maintenance work is to be accomplished at each of the sites during the post-construction six month maintenance period. These activities will be reported on as scheduled and carried out.

With significant reduction of field activities at the end of December, DCS staff was reduced from 109 to 95 at the end of the month. IEEO local staff remained at 15 personnel. DCS and IEEO force reports are appended.

## 2. CONTRACT ADMINISTRATION

### Change Orders

- Twenty-eight Change Orders are now at BADC for review and approval. See Section 11 of this report for details. C.O. K5-035, for Atrai, which incorporated concrete piles, substituted a 60' pontoon barge and modified site works was signed by KDC and sent to BADC in December.

### Claims

- Claims received from KDC in November were considered and responses made to KDC.
  - 1) Costs associated with the Performance Bonus - Denied.
  - 2) Costs associated with deleted work - Denied.
  - 3) Sathkira floor reconstruction costs - Denied.

### Extension of Time

- 1) Time extension at Bholá |  
requested Nov. 23, 1983 | Interim 31 day  
| extensions granted.
- 2) Time extension at Rohanpur |  
requested Nov. 24, 1983 |

### Inventory

- BADC was requested to provide a list of recipients for inventory which is to be turned over. Soil and material testing items were, in part, turned over to Amman and Whitney. Arrangements to turn over one complete household to Amman and Whitney have also been made.

### Maintenance Certificate

- A Maintenance Certificate was issued for Brahmanbaria effective 30 November. This triggered the first partial release of KDC's retention money.

### Ishurdi Office

- The IEEO Area Office at Ishurdi was closed out in December.

### 3. CONTRACT EXPENDITURES

December, 1983 Taka expenditures reimbursable by USAID were:

Local Salary	52,092.00
Office Supplies & Expenses	30,874.45
Dhaka Office Rent/Maint./Utilities	6,600.47
Area Office Rent/Maint./Utilities	6,961.75
Vehicle Operation	76,216.32
Soils Lab. Works	2,776.00
House Rent/Main./Utilities	122,338.41
DCS	603,388.85
Local Travel	28,481.95
Expat Perdiem & Hotel	3,290.00
Miscellaneous	4,754.70

Total Taka	<u>937,774.90</u>
------------	-------------------

There were no expenses reimbursable through BADC's Duties and Taxes Account. October and November, 1983 expenditure budgets are appended.

### 4. EXPATRIATE STAFF - IECO

In-country expatriate staff during December:

F.E. Isgrig	Project Manager
C.F. Leonhardt	Chief Field & Construction Engineer
D. Lovely	Contract Administrator
M. Lim	Construction Engineer - Demobilized 4 Dec.
S.J. Hewick	Construction Engineer
H. Tchen	Construction Engineer

### 5. MEETINGS

11 Dec.	BADC/KDC USAID/IECO	Barisal and Bhola water supply systems, Construction schedule and site reports, Materials testing, Time extension, Linseed oil on columns, Rain entering louvers, Rail sidings and other topics.
20 Dec.	Min. of Agr. Min. of Comm. BADC/BR IECO/USAID	PIL reviewed: International procurement, Local procurement - particularly ballast, and FAR costs in consideration of labor cost increases. Arrangements for PIL finalization and prosecution of work were set.
22 Dec.	BR/BADC USAID/IECO	FAR amounts, including costs of signaling installations, were examined in detail for PIL recasting.

## 6. PENDING ACTIVITIES AND ACTIVITIES IN PROGRESS

### 6.1 For Action by BADC

#### a. Site clearance/obstruction removal activities:

Rangpur - BADC to execute Burma-Eastern Ltd. agreement. One power pole and one telegraph post within the alignment of BE's extended siding require relocation.

#### b. Sign outstanding Change Orders.

c. Obtain from PDS the location of site power tapping points, and arrange with PDS for electrical service at sites where this has not yet been done.

### 6.2 For Action by IECO

a. Sign procurement agreements with selected vendors for sleepers and special diamond crossings. Prepare tender documents for rebid of rail end fittings for code 935 countries. Prepare for turnout procurement.

b. Make a final review of KDC's claim for increased petrol cost.

## 7. ENGINEERING ACTIVITIES

### 7.1 Materials Engineering

Gradation tests on concrete aggregates and imported soil materials and field tests on engineered fill, were carried out at Feni, Barisal, Bhola, Rohanpur, Dinajpur, Charkai, Mahendranagar, Rangpur and Atrai.

Crushing strength tests were carried out at Dhaka and at the zonal laboratories on concrete cylinders received from Feni, Barisal, Bhola, Netrakona, Rohanpur, Atrai, Dinajpur, Charkai, Mahendranagar, and Rangpur.

Brick samples were tested at Dhaka Laboratory for possible use at Bhola.

Drinking water samples collected from Melandah Bazar, Feni and Brahmanbaria, and subjected to bacteriological tests at Public Health Laboratory, were found satisfactory. Also water samples from Dinajpur, Rangpur, Mahendranagar and Atrai were sent to Public Health Laboratory and test results were awaited in January 1984.

Consolidated reports on materials tests carried out at the IECO Laboratories at Dhaka and in the zonal offices are presented in the following pages.

## 7.2 Office and Field Engineering

As-built site plan drawings of Mahendranagar, Atrai, Netrakona and Bhola have been drafted. Minor changes to site plans were shown on as-built drawings per site inspection at Mymensingh, Atrai, Dinajpur, Santahar, Melandah Bazar, Madhupur, Comilla and Netrakona. Rohanpur river-side slope protection drawings were modified to raise the apron elevation and eliminate the gabion box. Details of Barisal loading ramp, gabion protection works, and pontoon mooring were revised to incorporate some dredging excavation work.

IECO's survey party checked the fill elevation of the rail siding areas at Begra, Santahar, Atrai, Rangpur, Charkai, Shibganj, Panchagar and Mahendranagar.

## 7.3 Rail Siding Construction Arrangements

- |                |  |
|----------------|--|
| Comilla.       | Most of the rail and some sleepers were delivered to site. Remedial earthwork is needed in spots. BR work has not started. BR adoption of previously approved IECO layout is required. |
| Netrakona.     | Some material was received. Minor earthwork is to be done by KDC. BR work has not started.   |
| Melandah.      | Some material was received. BR is not working at site.   |
| Panchagar.     | The fill elevation is to be corrected by KDC. BR has not delivered any material.   |
| Begra.         | KDC is to dress the embankment. No material or on site work by BR yet.   |
| Santahar.      | The fill requires some cutting by KDC. Rail is delivered, but no site work has begun.  |
| Atrai.         | The embankment is to be completed by KDC. No material has been received.   |
| Charkai.       | The embankment is to be completed by KDC. No material has been received.   |
| Shibganj.      | No material is received. BR is to remove coping wall before KDC can complete the fill.   |
| Rangpur.       | Rail gate alignment and location is being checked. No material is received at site.  |
| Mahendranagar. | The earth fill is not complete. No material has been received.   |

Muladuli. The track is laid and linked. All material is at site except for ballast. The roof overhang on the gatehouse and minor earthworks are to be rectified by KDC.

Amnura. Rail and some sleepers are delivered. KDC is to regrade the fill. No BR site work yet.

Rohanpur. The fill is incomplete. Rail received at site.

A meeting of all concerned parties, chaired by the Ministry of Agriculture, was held to discuss payments for work, procurement of materials and prosecution of the work. The meeting resulted in revised PIL, BR's agreement to expedite the work, and authorization for IECO to proceed with international procurement of rail and fittings.

Offers and bid bonds of the two sleeper suppliers were extended through 15 January, 1984.

The procurement agreement for compound/combination fishplates was signed. Meetings to effect procurement of the sleepers and the special diamond crossings were scheduled for the first week of January.

CONSOLIDATED REPORT  
MATERIALS TESTING

Laboratory Reporting:  
Dhaka

Reporting Period:  
From 26 Nov. To 25 Dec.

CONCRETE		No. of Tests at			Samples Passed at 28 days	Remarks	
Site	Location	7 days	14 days	28 days			
Compressive Strength Test							
Barisal	Platform loading area, anchor block ramp at pontoon area	-	-	5	5	All passed. Also one field cyl. tested & passed which was requested to send in last reporting period.	
Feni	Road, floor slab of godown	12	2	4	2	Two Lab-cured cyl. failed. Requested to send field cylinders for tests.	
Bhola	River side road, godown canopy, roof slab of pent house of B1 type bldg., road pavement, bond beam, godown roof slab, stairs of A1 bldg., slab on grade on B1, C1 & public toilet	16	-	16	11	Seven Lab-cured cylinders failed. Five field cylinders tested and passed. Requested to send rest two field cyl. for test.	
<u>Materials &amp; Tests</u>		<u>Particulars</u>			<u>Tests Total</u>	<u>Tests Passed</u>	<u>Remarks</u>
<u>BRICK</u>		Frog Marks -					
Compressive Strength Test		STAR, RBI			2	2	Frog marks passed: STAR(Q1), RBI(Q1)
<u>BRICK (STACK TEST)</u>		Frog Marks -					
Compressive Strength Test		RIMS'83, ABM A. KHALEQUE			36	4 + 28	4 stacks passed: 2 RIMS'83(Q4), 2 A. KHALEQUE(HL) 28 stacks need resorting: 18 RIMS'83, 7 ABM, 3 A. KHALEQUE
<u>FINE AGGREGATE</u>							
Gradation Test					47	24	Tests passed: 24(HL)
Field Density Test		Godown sand fill			107	100	Tests passed: 43(HL), 10(Q4), 47(Q1)
<u>COARSE AGGREGATE</u>							
Gradation Test					2	1	Tests passed: 1(HL)
<u>IMPORTED MATERIALS</u>							
Gradation Test		Road & platforms of			2	2	Tests passed: 2(HL)
Field Density Test		godown			78	57	Tests passed: 57(HL)

CONSOLIDATED REPORT  
MATERIALS TESTING

Laboratory Reporting:  
Mymensingh

Reporting Period:  
From 26 Nov. To 25 Dec.

CONCRETE		No. of Tests at			Samples Passed at 28 days	Remarks
Compressive Strength Test Site	Location	7 days	14 days	28 days		
Netrakona	Road area, & slab on grade	-	-	3	3	All passed.
Materials & Tests		Particulars			Tests Total	Tests Passed
BRICK		Frog Marks				
Absorption Test						
Compressive Strength Test						
FINE AGGREGATE						
Gradation Test						
Specific Gravity Test						
Unit Weight Test						
Lab. Compaction Test						
COARSE AGGREGATE						
Gradation Test						
Unit Weight Test						
Specific Gravity Test						
IMPORTED MATERIALS						
Gradation Test						
Atterberg Limit Test						
Natural M/C						
Specific Gravity Test						
Lab. Compaction Test						
SPECIAL						
Cement Test						

CONSOLIDATED REPORT  
MATERIALS TESTING

Laboratory Reporting:  
Rangpur

Reporting Period:  
From 26 Nov. To 25 Dec.

CONCRETE		No. of Tests at			Samples Passed at 28 days	Remarks	
Compressive Strength Test Site	Location	7 days	14 days	28 days			
Dinaipur	Road, fence, ancl. bldg.	-	3	16	16	All passed.	
Charbat	Godown, road, ancl. bldg.	3	10	18	17	One lab-cured cyl. failed from ancl. Al bldg. stairs. Field cyl. tested and also failed. Hammer tested and passed.	
Mahendranagar	Godown, road, ancl. bldg.	5	2	13	13	All passed.	
Rangpur	Godown, road, ancl. bldg. wall.	6	6	25	25	All passed.	
Materials & Tests		Particulars			Tests Total	Tests Passed	Remarks
<u>BRICK (STACK TEST)</u>		Frog Marks -					37 stacks passed: 4 BBL(L7), 33 RC(L1)
Compressive Strength Test		BBL, RAJ, RC			53	37+16	16 stacks needs resorting: 6 BBL(L7), 2 RAJ(L7), 8 RC(L1)
<u>FINE AGGREGATE</u>							
Gradation Test							
Lab. Compaction Test							
Field Density Test		Sand fill			50	50	Tests passed: 50 (04)
<u>COARSE AGGREGATE</u>							
Gradation Test							
Specific Gravity Test							
<u>IMPORTED MATERIALS</u>							
Gradation Test							
Lab. Compaction Test							
Field Density Test		Engineered & common fill			220	220	Tests passed: 63(01), 7(04), 44(L7), 20(L1), 86(K5)
<u>SPECIAL</u>							
Cement Test							

CONSOLIDATED REPORT  
MATERIALS TESTING

Laboratory Reporting:  
Ishurdi

Reporting Period:  
From 26 Nov. To 25 Dec.

<u>CONCRETE</u>		No. of Tests at			Samples Passed at 28 days	Remarks	
Compressive Strength Test Site	Location	7 days	14 days	28 days			
Rohanpur	Godown floor slab.	1	4	5	5	All passed.	
Atrai	Godown, road, encl. sept	9	-	9	9	All passed. Also two field cyl. from godown roof & road tested and passed which was requested to send for test in last reporting period.	
Materials & Tests		Particulars			Tests Total	Tests Passed	Remarks
<u>BRICK</u>		Frog Marks -					
Absorption Test							
Compressive Strength Test							
<u>FINE AGGREGATE</u>							
Gradation Test							
Specific Gravity Test							
Unit Weight Test							
Lab. Compaction Test							
<u>COARSE AGGREGATE</u>							
Gradation Test							
Unit Weight Test							
Specific Gravity Test							
<u>IMPORTED MATERIALS</u>							
Gradation Test							
Atterberg Limit Test							
Natural M/C							
Specific Gravity Test							
Lab. Compaction Test							
Field Density Test		Engineered fill			250	250	Tests passed: 250 (K3)
<u>SPECIAL</u>							
Cement Test							

## 8. CONSTRUCTION SURVEILLANCE

### 8.1 General

Individual site status reports in this section relate the progress attained to the bar chart schedules adopted for the program. An overall assessment of the construction status is made in Section 1.

Site-specific performance in December was as follows:

### 8.2 Zone I (Comilla)

#### C2 Mymensingh

This site was certified complete on 30th September, 1983 and was taken over by BADC on 26th October, 1983. No maintenance work was performed during the month of December. Final painting and maintenance works are scheduled for January/February 1984.

#### D1 Madhupur

All major works were completed during the month of December, 1983. The IECC Chief Construction Engineer inspected the site on 22 December, 1983 and based on his inspection, a final punch list was issued to KDC. Immediately after the inspection and receipt of the punch list, KDC started performing the remedial works, which were completed during the last week of December, 1983. A certificate of substantial completion is being issued by IECC, with effective date of 31 December 1983.

#### C4 Melandah Bazar

All major works were completed during the month of December, 1983. The IECC Chief Construction Engineer inspected the site on 22 December, 1983 and based on his inspection, a final punch list was issued to KDC. Immediately after the inspection and receipt of the punch list, KDC started performing the remedial works, which were completed by the end of December, 1983. A certificate of substantial completion is being issued by IECC, with effective date of 31 December 1983.

#### B2 Netrakona

All major works were completed during the month of December, 1983. General cleaning and final finishing works were in progress. This site is expected to be ready for final inspection by the first or second week of January 1984.

The overall percent completion of this site by the end of December was 99%.

### I1 Comilla

The Comilla site was handed over to BADC on October 3, 1983 and fertilizer is currently being stored in the godown.

At the end of December IECO's Chief Construction Engineer and Zone I Construction Engineer visited the site to make a list of outstanding maintenance/remedial repair works that KDC must perform before issuance of the Maintenance Certificate. A substantial amount of work is to be done at Comilla, consisting both of exterior sitework on slopes and drainage facilities, and remedial work and painting on the godown and ancillary buildings. A detailed punch list is in preparation to be transmitted to the Contractor for scheduling the work.

### I3 Daudkandi

Daudkandi site was handed over to BADC on Oct. 3, 1983. The remaining works which KDC must schedule for accomplishment include:

- 1) Provide final coat of whitewash to exterior face of all buildings.
- 2) Test water system in full use for two consecutive 8-hour periods.

A detailed punch list of other maintenance/remedial tasks is to be made in early January, 1984.

### I2 Brahmanbaria

On this site KDC has accomplished all the required maintenance works. A Maintenance Certificate was issued by IECO on Dec. 7, 1983, effective 30 November 1983.

### H1 Feni

During December the brickwork was completed on all 12 truck loading docks, while the construction of eleven concrete slabs with embedded anchor bolts for wooden bumpers were completed. In addition the brickwork on godown walls for all 22 spans was completed by the end of December. Plastering of the walls was also completed for 21 spans, both exterior and interior surfaces. The placement of sand fill under concrete floor slab was completed, as well as casting of the remaining floor slabs. The built-up bituminous roofing for the godown, C-1 and Public Toilet buildings was also installed complete. Painting and glazing of louver and vents was completed during the month, and application of the first coat of whitewash inside the godown was started.

Approximately 13,000 sf of road pavement work on the south, east and north side of the godown was completed during December to bring that work to 57% complete. Preparation of roadbed foundation on the west side of godown and for the roadway around the existing Phase I godown up to the entrance road was in progress at months-end.

On electrical works brackets for lights have been fitted with switches and boards while 40% of electrical cables have been pulled. All other electrical works were in progress.

During December approximately 8.2% progress was achieved against 2.3% planned. Overall status of work at the site stood at 92.6% complete against 96.4% planned. Shortfall in progress is due to shortage of bricks for road pavement; however the supply of bricks was being improved by the end of December.

The site is scheduled for completion at the end of January, 1984. KDC must expedite the work and schedule two shifts to meet that schedule.

#### Q4 Barisal

Site Development: All the concrete roads, walkways and brick aprons have been completed. In addition all engineered fill has been completed; however, spot sodding of the top layer was in progress at month-end. Previously placed grass sodding slope protection works were under repair. Excavation of excess soil on the river side beyond the pontoon ramp has yet to be started. Construction work in the pontoon area is now complete. Brick soling for the parking area has been placed; however, bricks are being checked and replaced as necessary. The location drawing for electric power poles has yet to be received and installation of the power poles is pending. All fence post and boundary wall works are 100% complete.

Godown: All the godown structural work has been completed. Installation of all godown electrical wiring, distribution boards, sub-distribution boards, meter boxes, light and switch boxes is completed. All remaining louvers have been fixed, while twelve doors were also installed and painted during the month. Whitewashing was in progress and the final coat has been applied except for four bays on the inside of the godown. Linseed oil treatment of columns is scheduled to be started soon. The remaining section of godown floor brick soling was completed during the month.

Ancillary Buildings: During December final touch up work was on-going in all ancillary buildings. Works completed included painting of 560 sf of grills, painting the remaining 46 sf of doors and 15 sf of windows, and whitewashing of all buildings. The final patch work on flooring, neat cement finish, etc. was on-going, while sanitary plumbing work was completed except for the underground storage reservoir and the pump house. In addition, the installation of all electrical fittings, except for the fans, has been completed.

According to the latest instructions, construction of the underground storage reservoir and pump house is scheduled to be started in early January. The distribution line from the overhead tank to the B1, C1 and public toilet buildings has already been installed and tested.

During December approximately 11.3% progress was achieved against 4.5% planned. The overall status of the site construction at the end of December stood at 97.0% complete against 98.6% scheduled. Barisal is scheduled for final punch list on January 4, 1984, and the overall site completion is expected before the end of January 1984.

## Q1 Bhola

Site Development: Construction of boundary walls and wire fence progressed during the month to 90% complete. At the end of the month, construction of road pavement continued and progressed another 22,040 sf to bring that work to 60% complete. Engineered fill placed in the parking and apron areas amounted another 30,000 cf during the month to bring that work to 95% complete.

Godown: The remaining sand fill in the godown progressed another 5,361 cf to bring that work to 100% complete. Work on the brick soling floor by month-end was 72% complete with some 41,000 sf placed. In addition all the beams and canopies were poured and were 100% complete. Masonry works were 99% complete, while plastering works progressed another 13,000 sf to bring that item to 70% complete. In addition built-up bituminous roofing was complete during the month and electrical works were 70% complete. Installation of steel louvers and windows were 90% complete as of month-end.

Ancillary Buildings: All major works on the ancillary buildings were completed except for whitewashing and the installation of plumbing and electrical fixtures. Brickwork for the septic tanks was completed, while the inspection pits were still in progress. The overall progress of work on the ancillary buildings as of the end of December stood at 91% complete against 100% planned.

Concrete river steps and brick gabion work were complete at the south side of the godown while foundation excavation was still in progress on the north side.

During December about 9.1% progress was achieved against 12.6% planned, and the overall status of sitework at the end of December stood at 85.5% complete against 98.5% scheduled. This site is again lagging behind the schedule by about one month. At IECO instigation arrangements were agreed upon with KDC to expedite the progress by working two shifts in order to meet the target schedule for completion by February 1984. A new schedule was prepared at the end of December using two shifts, and KDC now expects to complete all work by 31 January 1984, with final inspection and completion of all rectification tasks to follow immediately, in February.

### 8.3 ZONE II (Bogra)

M1 Santahar; M3 Bogra; 03 Panchagar; 02 Shibganj

During December KDC submitted a schedule for maintenance work to be accomplished at the four previously certified sites: Santahar, Bogra, Panchagar and Shibganj. This maintenance work is scheduled to be carried out from 15 January to end of February 1984, under the supervision of IECC's Field Engineers and/or Inspectors.

#### 01 Dinajpur

Site Preparation: During the period all brick aprons, grass sodding and the repair of boundary wall were completed. On the western side some 241 feet of barbed wire fence was constructed instead of boundary wall. Except for final general cleanup work, all exterior site items are now complete.

Godown: During the month whitewashing was completed, PVC downspouts were installed, screens were inserted in weep holes, timber guard bumpers installed and linseed oil treatment applied to all columns.

Ancillary Buildings: Whitewashing of all buildings and the installation of doors, windows and grill works were 100% complete. All sanitary and electrical works were also completed and tested during the month.

Progress achieved during December 1983 was 14.0% against 10.3% planned while overall progress stood at 98.1% against 95.3% scheduled. A "punch list" was given to the Contractor on 22 December and it is expected that this site will be ready for final inspection by the 2nd week of January 1984.

#### 04 Charkai

Site Preparation: The construction of the remaining boundary wall and gate were completed, as well as all works related to the parking lot, aprons and guard posts.

Godown: During this period plastering of walls both interior and exterior was completed, as well as, the installation of doors, louvres and window frames. Two tally clerk rooms were also completed while the application of linseed oil treatment to columns and the fitting of window panes were in progress. The installation of godown electrical work was about 50% complete by the end of December.

#### Ancillary Buildings:

A-1 Building: The plastering of inside and outside of this building was about 95% complete while the installation of doors, window frames and grills was on-going. In addition sanitary works and the finishing of flooring and skirting in the building was in progress.

B-1 Building: All plastering works both inside and outside, the finishing of flooring and skirting, and installation of bituminous roofing were completed during the month. Sanitary works, including septic tank and soakwell were under construction, while the installation of doors, windows, grills and electrical works was in progress.

C-1 Building: All plastering, flooring and bituminous roofing were completed, while the fixing of doors, windows and grills was on-going.

Public Toilet: The public toilet roof slab and all plastering works were completed while the installation of windows and door frames was on-going.

During the month 9.6% progress was achieved against 10.1% planned. The overall progress now stands at 85.3% against 97.6% scheduled. It is anticipated that this site can be completed by end of January; however, a special effort by the contractor is required to meet that schedule.

#### K5 Atrai

Site Preparation: During December the paving of the service road, parking lot, aprons, and walkways were completed. In addition, construction of the guard posts, gate house and boundary wall was also completed.

Godown: During December the brick flooring was completed, as well as the tally clerk offices and stairs to truck loading platforms. In addition, all plastering and neat cement finishing works were completed, while installation of windows and bituminous roofing and flashing was also completed. Except for whitewashing and the fixing of doors this godown is essentially complete.

Ancillary Buildings: All plastering, neat cement finishing and flooring/skirting were completed during the month. The fixing of door and window frames was on-going and approximately 35.0% complete on all buildings. Electrical and sanitary works were started and were on-going at the end of the month. The status of work on the ancillary buildings is approximately 75.0% complete.

During December 18.6% progress was achieved against 10.9% planned. The overall progress now stands at 94.9% against 96.9% scheduled. The current high water elevation of the river could cause a delay in completing the concrete ramp for the pontoon gangway by end of January; otherwise, it is anticipated that all other items will be completed on schedule.

#### L1 Rangpu

Site Preparation: During December the approach road concrete paving, as well as two pipe culverts under the road were completed. In addition, all grass sodding and grading was completed. The boundary wall is being cleaned up and repaired where necessary.

Godown: Except for whitewashing, which is now on-going, all other items of work have been completed.

Ancillary Buildings: Except for whitewashing, which was in progress during the month, all other items were completed in December.

During December 12.6% progress was achieved against 10.8% scheduled. The overall progress now stands at 97.6% against 95.9% planned. This site should be completed by the first week of January, and a final inspection is scheduled for the 2nd week of January.

L7 Mahendranagar

Site Preparation: Boundary wall and parking area were completed, as well as all engineered fill for the offsite railroad siding. In addition, all other items of work, except for some minor contour grading, were completed.

Godown: All remaining items of work except for the final coat of whitewash have been completed. Installation of timber bumpers for truck loading platforms was on-going during the month.

Ancillary Buildings: All remaining items of work were completed during this month including installation of all electrical work while sanitary works were about 98% complete. The contractor has requested preliminary inspection of the site on 5 January. After this inspection, a final punch list will be prepared and it is anticipated that this site can be completed by mid-January 1984.

Progress during December was evaluated at 10.2% against 9.2% scheduled. The overall progress now stands at 97.9% against 98.8% scheduled.

## 8.4 ZONE III (Ishurdi)

### K3 Rohanpur

General: On 28 December the Chief Construction Engineer made a punch list for the Godown and Ancillary Buildings. All outstanding finishing works as noted on the punch list are expected to be completed by mid-January, 1984 while final inspection for the site works will be made near the end of January.

Godown: The remaining 8,610 cf of sand fill under floor slab was placed during the month to complete that item. Subsequently, 234 cy of concrete slab on grade was also poured to bring that item to 100% complete. In addition all godown doors, windows and louvres were mounted and painted, also 100% complete. Godown exterior whitewash has been completed with 3 coats; however, some touch up work remains. All electrical fixtures have been installed and are working. Two coats of interior whitewash have been completed, while the final coat remains.

Ancillary Buildings: All wooden doors and windows have been installed and painted. Cracks that developed previously in doors and windows have been rectified with putty and re-painted. The final coat of whitewash was applied to all the ancillary buildings during the month, bringing that work to completion. All electrical, plumbing and sanitary items were completed previously, in November.

Site Development: Road pavement in the west side of Godown was completed during the month to bring road works to 100% complete. Construction of engineered fill with on-site material continued with about 9000 cf placed during the month. Excavation along the off-site railway siding was also completed, with about 30,000 cf excavated.

Additional site works: Construction of drains and drop structures was in progress during the month; with two drop structures and several drains completed and others in progress. Excavation and filling work on the river embankment continued during the month with good progress.

Progress at this site during the month of December was 5.0% against a scheduled 3.0%. The overall progress of work now stands at 91.0% against 97.4% scheduled. Every effort is being made to complete this site on schedule. Work on Godown and Ancillary Building are expected to be completed for certification by mid-January 1984 while the site development works will most probably be delayed past the end of January to mid-February 1984.

### Pl Satkhira; S2 Kaliganj; T1 Chuadanga

Maintenance works for the Satkhira, Kaliganj and Chuadanga sites have been scheduled to be accomplished by KDC during the first half of January 1984. IECO will supervise these final maintenance works with Field Engineers and Inspectors.

T2 Kushtia; N1 Muladuli and K2 Amnura

Maintenance works for the Kushtia, Muladuli and Amnura sites have been scheduled to be accomplished by KDC during the second half of January 1984. IECO will supervise these final maintenance works with Field Engineers and Inspectors.

## 9. CONTRACTOR'S ACTIVITIES

The following are excerpts from KDC's monthly report No. 26 for the month of December 1983.

### 1. OVERALL PROJECT ACTIVITIES

#### 1.1 GENERAL STATEMENT OF PROGRESS

Overall project completion is estimated to date as 97.8% against a planned 98.8%.

Overall progress for each Zone as a percentage of total project cost is approximately as follows:-

Zone - I	Planned	31.8%
	Actual	31.4%
Zone - II	Planned	45.3%
	Actual	45.0%
Zone - III	Planned	21.7%
	Actual	21.4%

Zonal Progress for each Zone as a percentage of total work in each Zone only:

ZONE-I (32.30% of Total Project Cost)	:	
Planned Progress upto current period	:	98.6%
Actual Achieved Progress	:	97.2%
ZONE-II (45.96% of Total Project Cost)	:	
Planned Progress upto current period	:	98.8%
Actual Achieved Progress	:	97.7%
ZONE-III (21.74% of Total Project Cost)	:	
Planned Progress upto current period	:	99.8%
Actual Achieved Progress	:	98.8%

Certificates of substantial completion have been received for sixteen sites. Maintenance Certificate has been received for one site.

Total expatriate staff now equals 78 persons against the original planned estimate of 75 persons.

## II. SPECIFIC SITE ACTIVITIES

### 1. ZONE - I

#### 1.1 GENERAL STATEMENT OF PROGRESS

##### Feni-H1

About half of the concrete pavement was complete at month's end in December as site activities picked up a little bit this month. About a hundred feet of boundary wall construction was also accomplished.

Warehouse construction saw about 92% of the floor slab complete by month's end. The other major warehouse activity was door and louver installation. Some electrical work on the warehouse was also accomplished.

Planned progress to date is 96.4%. Actual achieved progress is 92.6%.

##### Madhupur-D1

IECO certified this site substantially complete as of December, 31, 1983. The warehouse itself had already been handed over to BADC in November.

Planned progress to date is 97.8%. Actual achieved progress is 100%.

##### Melandah Bazar-C4

This site was also certified complete by IFCO. According to IECO, December 31, 1983, was the date on which all site construction activities were substantially completed.

Planned progress to date is 96.4%. Actual achieved progress is 100%.

##### Netrakona-B1

Mobilization progressed to 100% as this site approached substantially complete status.

A further two hundred feet of the barbed wire fence were installed this month as finishing activities were being brought to a close. Both warehouse and Ancillary Building activities consisted mainly of the touch-up type of finishing work. The subcontractor for the Ancillary Buildings finished cleaning and clearing up in late December after completing all construction work.

Planned progress to date is 97.4%. Actual achieved progress is 99.0%.

Bhola-Q1

For the second month in a row, substantial work progress was registered at Bhola site. Among site preparation activities, work on the concrete pavement, warehouse aprons and guard posts were prominent.

Warehouse construction activities included substantial progress on the temporary brick-laid floor. Roof weather proofing and louver installation were two important activities brought to near-completion this month at Bhola. Finishing work including painting had also started before the end of December.

Finishing activities were also in full swing in the Ancillary Buildings as door and window assembly and installation began this month. Flooring and skirting was also completed in December.

Planned progress to date is 98.5%. Actual achieved progress is 85.5%

Barisal-Q4

Work at this site approached completion. Excellent progress on the brick-laid parking areas and the warehouse apron made both items complete at month's end. River bank protection with brick gabions registered further progress.

Work on the temporary floor inside the warehouse reached nearly complete status by month's end. Painting work began in December and was completed before the end of the month.

Painting and door/window assembly and installation were nearly complete at the end of the month. Sanitary, plumbing and water supply work continued.

Planned progress to date is 98.6%. Actual achieved progress is 97.0%.

1.2 PLANT AND EQUIPMENT

<u>Site</u>	<u>Description</u>	<u>No.</u>	<u>Description</u>	<u>No.</u>
Comilla-I1	Pick-up	2	Cargo Truck	1
	Jeep	1		
Daudkandi-I3	Generator	1	Dumper	1
Feni-H1	Payloader	1		
Madhupur-D1	Concrete Mixer	1	Vibrator	3
	Water Pump	2	Welding Machine	1
	Generator	1	Payloader	1
	Dumper	1		
Melandah Bazar-C4	Vibrator	1	Generator	1
	Water Pump	1	Payloader	1
	Air Compressor	1	Concrete	1
	Concrete Dumper	1	Welding Machine	1
	Compactor	1		
Netrakona-B2	Mixer Truck	1	Payloader	1
	Crane	1	Generator	1
	Sand Compactor	1	Conveyer Belt	1
Barisal-Q4	Vibrator Compactor	1	Welding Machine	1
	Tire Roller	1	Crane	1
	Crane	1		
Bhola-Q1	Water Pump	2	Generator	2
	Crane	1	Batching Plant	1
	Payloader	1	Vibrator	1
	Mixer Machine	1	Welding Machine	1
Mymensingh-C2	Concrete Dumper	1		

## 2. ZONE - II

### 2.1 GENERAL STATEMENT OF PROGRESS

#### Rangpur

The construction items completed this month in the site preparation category include the concrete paved road and the concrete walks. Work on the brick-laid parking areas and warehouse aprons progressed substantially in December.

Plastering of the warehouse walls continued and neat cement finishing of certain surfaces was completed. Louver installation was complete at month's end as was built up roofing and flashing work on the warehouse, other finishing work such as painting registered substantial progress in December.

Finishing works were a predominating feature of ancillary building construction this month as a multitude of activities were completed before the end of the month. Among the completed activities were door and window assembly and installation, painting, roof weather-proofing etc.

Planned progress to date is 95.9%. Actual achieved progress is 97.6%.

#### Mahendranagar-L7

The concrete pavement was nearly complete and the aprons also nearly so at month's end. A small amount of filling, the construction of the gate house and the near completion of the property boundary wall were some of the other items performed this month in the site preparation category. Slope protection in the form of grass sodding placement was also nearly complete at the end of the month.

Plastering on the warehouse walls continued this month along with neat cement finishing wherever appropriate. Installation of louvers was completed in this month and painting of finished surfaces was begun and substantially completed this month. Many other minor finishing works were completed in December as well.

Major progress in ancillary building construction marked activities at this site. Plastering work progressed, neat cement finishing and built up roofing was completed. Steel grill, door and window installation, flooring and skirting and white/colour wash of the walls also marked ancillary building construction.

Planned progress to date is 98.8%. Actual achieved progress is 97.9%.

#### Dinajpur-01

Work proceeded on the warehouse aprons and the concrete walks in December; one gate house was completed and 240 feet of the barbed wire fence were installed. Finishing activities were the only thing remaining in the warehouse and these continued in December as this site approached 'substantially complete' status. Louver installation, painting, weep-hole screen installation etc. were some of the activities accomplished this month.

Both plastering and neat cement finishing continued in the ancillary buildings. Other finishing activities were also recorded, as door and window assembly and installation, steel grill installation, painting, flooring and skirting all approached completion. Substantial sanitary and plumbing installation work was accomplished in December along with electrical utility work for both the ancillary buildings and the warehouse.

Planned progress to date is 93.5%. Actual achieved progress is 98.1%.

#### Charkai 04

The parking areas and aprons were taken up early this month and substantially completed by month's end.

Door and louver installation (including Vents and windows) were the main warehouse activity this December in Charkai.

The ancillary buildings were completed structurally in December and finishing activities were in full swing by month's end.

Planned progress to date is 97.6%. Actual achieved progress is 85.3%.

#### Atrai-K5

Another 20,000 cubic feet of engineered filling was recorded bringing the total amount in this item to over 395,000 cubic feet. By month's end, the concrete pavement was nearly complete along with the brick-laid parking area. The brick laid aprons and the concrete walks had also substantially progressed by the end of December.

Thirty-six guard posts, three entrance gates, one pedestrian gate and one gate house were completed.

Work on the temporary warehouse floor was nearly complete at month's end. Also completed this month, louvers, vents and windows registered some 1596 square feet complete installed. Plastering, painting and neat cement finishing registered good progress during the month.

Major finishing works began to be completed in the ancillary buildings in December as plastering and neat cement finishing works concluded. Flooring and skirting work was also completed.

Planned progress to date is 96.9%. Actual achieved progress is 94.9%.

## 2.3 PLANT AND EQUIPMENT

<u>Site</u>	<u>Description</u>	<u>No.</u>	<u>Description</u>	<u>No.</u>
Santahar-M1	Payloader	1	Dump Truck	3
	Generator	3	Pick-up	2
	Concrete Dumper	1	Jeep	1
	Tractor	1	Excavator	1
Panchagar-03	Vibrator Roller	1	Water Pump	2
	Generator	1	Soil Compactor	1
	Pick-up	1	Tractor	1
	Mixer Truck	2	Concrete Dumper	1
	Payloader	1		
Rangpur-L1	Vibrator Roller	1	Pick-up	1
	Generator	1	Payloader	2
	Dump Truck	2	Concrete Vibrator	2
	Trolley	1		
Mahendranagar-L7	Welding Machine	1	Air Compressor	1
	Bar-Cutter	1	Payloader	1
	Pick-up	1	Vibrator	2
	Mixer Truck	2	Water Pump	2
	Generator	2	Dump Truck	1
	Band-saw	2	Concrete Dumper	1
	Grader	2	Batching Plant	1
	Drilling Machine	1		
Dinajpur-01	Generator	1	Water Pump	2
	Pick-up	2	Mixer Truck	1
	Concrete Dumper	1	Vibrator	3
	Payloader	1	Welding Machine	2
	Soil Compactor	1		
Shibganj-02	Pick-up	1	Water Pump	3
	Cargo Truck	1	Concrete Mixer	2
	Concrete Vibrator	2	Welding Machine	1
	Level Machine	1		
Charkai	Jeep	1	Back-Hoe	1
	Soil Compactor	1	Vibrator	2
	Water Pump	2	Dump Truck	2
	Mixer Truck	1	Generator	1
	Mixer Machine	1	Jeep	1
	Payloader	1	Welding Machine	1
Atrai-K5	Pick-up	1	Payloader	1
	Water Pump	1	Jeep	1
	Dump Truck	1	Taactor	1
	Mixer Truck	1	Generator	2
	Soil Compactor	1	Compressor	1
	Vibrator	2		

3. ZONE - III

3.1 GENERAL STATEMENT OF PROGRESS

Rohanpur-K3

At the only incomplete Zone - III site this month, the completion of the concrete pavement marked site preparation activities. Engineered filling for the off-site railway grade was the second major work activity in the site preparation category in December.

Substantial progress on the warehouse floor was the pre-dominating feature of construction work on the warehouse. Four more doors were installed leaving only one as yet to install. Painting work was some 87% complete at the end of the reporting period. Some other minor works like the installation of water stops and loading dock edge protection also took place in December.

Finishing activities in their final stages marked ancillary building construction. The assembly and installation of doors and windows was completed and painting work was about 90% complete at month's end. Electrical work in both warehouse and the ancillary buildings progressed during the month.

Planned progress to date is 97.4%. Actual achieved progress is 91.0%.

### 3.3 PLANT AND EQUIPMENT

<u>Site</u>	<u>Description</u>	<u>No.</u>	<u>Description</u>	<u>No.</u>
Muladuli-N1	Cargo Truck	1	Generator	1
	Jeep	1	Tractor	1
	Welding Machine	2	Water Pump	2
	Pick-up	1	Dump Truck	1
	Soil Compactor	1		
Chuadanga-T1	Conc. Dumper	1	Water Pump	1
Amnura-K2	Water Pump	1	Generator	2
	Payloader	1	Concrete Dumper	1
Satkhira-P1	Pick-up	1	Conc. Dumper	1
	Air Compressor	1	Water Pump	1
	Concrete Mixer	2		
Kushtia-T2	Water Pump	1	Conc. Vibrator	2
	Tractor	1		
Kaliganj-S2	Tractor	1	Water Pump	1
	Pick-up	1	Jeep	1
Rohanpur-K3	Soil Compactor	1	Generator	1
	Water Pump	5	Tractor	1
	Engine Vibrator	1	Bull Dozer	1
	Payloader	2	Jeep	1
	Air Compressor	1	Dump Truck	1
	Welding Machine	1		

# Best Available Document OVERALL PROGRESS SCHEDULE

PROJECT : FERTILIZER WAREHOUSE

KOREA DEVELOPMENT CORP.

ONE NO.	SITE LOCATION	% AGE WT.	1983												'84		Remo	
			UPTD	MAR	APR	UP TO MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB			
I2	BRAHMAN BARIA	3 11	P		99.5	100												100
			A	99	100	100	100	100	100	100	100	100	100	100				
I3	DAUDKANDI	3 21	P		63.3	77.3	98	100										
			A	63.3	86.9	95	98	100	100	100	100	100	100	100				
I1	COMILLA	5 01	P		80	88	96	100										
			A	71.4	84.5	93.0	97	100	100	100	100	100	100	100				90
H1	FENI	1 71	P		26.3	33.9	39.9	47.8	60.7	75.3	85.7	94.1	96.4	100				
			A	22.6	34.7	41.0	46.3	63.0	70.0	79.2	84.4	92.6						
C2	MYMEN SINGH	1 48	P		43.3	51.2	63.6	78.2	89.1	98.2	100							
			A	3.8	54.9	69.1	85.5	94.5	100	100	100	100	100					
D1	MADHUPUR	2 11	P		22	28.3	37	48	63.6	76.8	85.8	93.0	97.8	100				
			A	20	30.5	39.1	45.3	62	79.3	88.8	94.5	100						
C4	MELANDAH BAZAR	3 35	P		29	34.8	39.4	50.5	65.9	70.8	81.8	92.4	96.4	100				
			A	27.2	33.4	43.3	51.9	61.9	72.2	82.2	97.2	100						
B2	NETRAKONA	3 70	P		24.2	30.2	35.7	41.5	53.9	67.7	77.7	90.5	97.4	100				
			A	19	31	35.5	39.8	52.5	63.5	80.6	96.0	99.0						70
Q1	BHOLA	4 32	P		25.1	26.9	32.6	38.4	46.4	58.7	75.5	85.9	98.5	100				
			A	23.4	27.8	28.8	33.0	44.5	50.5	67.1	76.4	85.5						
Q4	BARISAL	3 46	P		21	24.8	28.7	33.8	52.2	67.9	81.9	94.1	98.6	100				
			A	18.2	27.8	32	39.5	54.7	64.4	72.2	85.7	97.0						
M1	SANTAHAR	12 71	P		87.5	95	97	100										
			A	80.7	92	94.4	95.2	95.2	99.2	100	100	100						60
M3	BOGRA	6 41	P		98.6	99.3	100											
			A	94.5	94.7	94.8	94.8	97.2	100	100	100	100						
O3	PANCHAGAR	2 42	P		80	88	86.0	100										
			A	78.4	86.5	87.2	91.8	92.3	95.0	100	100	100						60
O2	SHIBGANJ	4 45	P		90.5	96.0	100											
			A	80.5	87.2	88.0	95.0	95.0	95.0	100	100	100						
L1	RANGPUR	3 47	P		20.0	28.7	37.8	43.3	52.8	62.8	76.3	85.1	95.9	100				
			A	14.7	26.2	38.1	42.8	55.5	68.0	79.0	84.1	97.6						
L7	MAHENDRANAGAR	6 11	P		20.1	23.7	30.2	36.5	51.2	66.5	79.8	89.8	98.8	100				
			A	18.6	25.5	38.2	48.1	66.1	73.8	80.9	87.7	97.9						40
O1	DINAJPUR	3 14	P		17.1	24.5	30.1	35.9	42.9	52.8	67.8	85.0	95.5	100				
			A	14.5	24.8	31.1	40.6	52.8	59.8	73.2	84.1	98.1						
O4	CHARKAI	3 85	P		17.1	22.0	30.1	38.9	53.0	65.8	74.5	87.5	97.5	100				
			A	13.1	22.9	29.8	39.3	51.0	57.8	85.7	76.7	85.3						30
K5	ATRAI	3 34	P		22.4	27.0	35.4	42.2	49.8	61.0	74.4	86.0	96.9	100				
			A	13.5	30.7	39.9	48.8	59.3	51.3	82.1	76.3	84.9						
N1	MULADULI	3 34	P		72.4	80.0	88.0	98.0	100									
			A	66.7	83.0	91.1	94.7	98.0	99.5	100	100	100						
T1	CHUADANGA	4 17	P		83.3	90.0	96.0	100										
			A	76.5	85.9	90.6	95.2	99.0	99.5	100	100	100						20
K2	AMNURA	3 48	P		48.0	55.7	61.1	71.4	79.7	87.7	96.8	100						
			A	31.5	67.0	76.6	82.9	89.0	95.0	100	100	100						
P1	SATKHIRA	2 17	P		81.8	90.0	96.0	100										
			A	73.4	87.1	92.5	98.0	99.0	99.5	100	100	100						10
T2	KUSHTIA	2 82	P		60.6	69.0	78.0	82.0	90.0	97.0	100							
			A	49.5	68.6	78.5	88.6	95.2	99.0	100	100	100						
S2	KALIGANJ	2 88	P		45.2	64.5	74.7	81.9	88.9	92.9	97.8	100						
			A	31.9	56.9	71.1	80.8	90.4	98.0	100	100	100						
K3	ROHANPUR	3 40	P		19.0	30.1	41.2	61.7	61.2	71.8	81.8	92.4	97.4	100				
			A	15.5	21.7	35.7	44.1	65.7	78.3	78.2	86.7	91.0						
TOTAL		100																
PROGRESS PLAN					84.8	89.8	87.2	72.9	78.7	84.7	90.5	95.4	98.9	100				APPROVAL
PROGRESS ACTUAL					84.8	89.8	87.2	71.8	79.1	83.9	85.8	93.9	97.8					REVISION

10. CONTRACT FINANCIAL SUMMARY - DOLLARS

<u>Site</u>	<u>Projected Site Costs</u>	<u>Current Month #</u>	<u>Job To Date \$</u>	<u>Job To Date %</u>	
<u>ZONE - I</u>					
Daudkandi	1,540,000.00	0	1,524,889.47	99.02	cc
Brahmanbaria	1,492,000.00	0	1,503,337.57	100.76	cc
Comilla	2,402,000.00	0	2,365,460.08	98.48	cc
Mymensingh	710,000.00	0	706,978.92	99.57	cc
Feni	820,000.00	81,870.12	692,369.18	84.44	
Madhupur	1,415,000.00	7,911.01	1,442,288.20	101.93	cc
Melandah	1,608,000.00	38,163.34	1,512,147.87	94.04	cc
Netrakona	1,772,000.00	56,961.51	1,722,997.20	97.23	
Barisal	1,660,000.00	96,336.36	1,617,509.39	97.44	
Bhola	2,070,000.00	343,554.82	1,903,960.45	91.98	
<u>ZONE - II</u>					
Santahar	6,095,000.00	0	6,057,314.76	99.38	cc
Bogra	3,111,000.00	0	3,088,118.86	99.26	cc
Panchagar	1,160,000.00	0	1,143,830.64	98.61	cc
Shibganj	2,132,000.00	1,144.00	2,114,656.93	99.18	cc
Rangpur	1,664,000.00	170,146.97	1,693,701.48	101.78	
Mahendranagar	2,930,000.00	255,610.80	2,783,106.70	94.99	
Charkai	1,835,000.00	150,420.18	1,559,598.66	84.99	
Dinajpur	1,504,000.00	172,051.76	1,438,891.82	95.67	
Atrai	1,600,000.00	201,897.22	1,427,242.19	89.20	
<u>ZONE - III</u>					
Muladuli	1,600,000.00	0	1,516,166.86	94.76	cc
Chuadanga	2,000,000.00	0	2,003,057.94	100.15	cc
Amnura	1,670,000.00	0	1,538,823.46	92.15	cc
Satkhira	1,038,000.00	0	1,051,519.98	101.30	cc
Kushtia	1,207,000.00	0	1,152,578.39	95.49	cc
Kaliganj	1,274,000.00	0	1,191,144.35	93.50	cc
Rohanpur	1,630,000.00	120,583.24	1,466,633.32	89.98	
TOTAL					
(All Sites)	47,939,000.00	1,696,651.33	46,218,324.67	96.41	
RETENTION			970,429.72		

\* Preliminary data

cc Completion Certificate Issued

11. CONSTRUCTION CONTRACT CHANGE ORDER STATUS

<u>Change Order Number</u>	<u>Date</u>	<u>Description</u>	<u>Change</u>	<u>Contract Amount</u>
-	16 Oct. 81	Contract signed	-	\$ 50,000,000.00
C1-001	23 Oct. 81	Dinajpur - 3000 ton godown eliminated	\$ (561,600.17)	\$ 49,438,399.83
002	26 Jan. 82	Cost reduction	Rejected	\$ 49,438,399.83
I1-003	25 May 82	Comilla-Change culvert	\$ ( 2,510.48)	\$ 49,435,889.35
I3-004	18 May 82	Daudkandi - Remove and recompact fill	\$ 49,610.00	\$ 49,485,499.35
D1-005	16 June 82	Madhupur - Site relocated	\$ ( 4,293.80)	\$ 49,481,205.55
H1-006	21 July 82	Feni - Earthwork Modification	\$ 45,258.00	\$ 49,527,463.55
C2-007*	22 Feb. 83	Mymensingh - Concrete piles Deleted sand piles and floor (A27 and B11)	\$ 138,426.70 \$ (203,185.16)	
		Net	\$ ( 64,758.46)	\$ 49,462,705.09
I3-008	22 Feb. 83	Daudkandi - Marine Landing	\$ ( 13,499.09)	\$ 49,449,206.04
C4-009*	22 Feb. 83	Melandah - Concrete piles Deleted sand piles and floor (A27 and B11)	\$ 143,144.91 \$ (422,950.88)	
		Net	\$ (279,805.97)	\$ 49,169,400.12
B2-010*	02 Feb. 83	Netrakona - Concrete piles Deleted sand piles and floor (A27 and B11)	\$ 153,692.38 \$ (377,553.60)	
		Net	\$ (223,861.22)	\$ 48,945,538.90
I2-011*	21 April 83	Brahmanbaria revised water system Delete - D21, 22 & 23	\$ 10,666.91 \$ ( 19,152.00)	
		Net	\$ ( 8,485.09)	\$ 48,937,053.81
I1-012*	28 April 83	Comilla revised water system Delete D21, 22 & 23	\$ 16,307.03 ( 19,152.00)	
		Net	( 2,844.97)	\$ 48,934,208.84
I3-013*	28 April 83	Daudkandi revised water system Delete D21, 22 & 23	\$ 12,695.78 ( 19,152.00)	
		Net	( 6,456.22)	\$ 48,927,752.62

CONSTRUCTION CONTRACT CHANGE ORDER STATUS (Continued)

<u>Change Order Number</u>	<u>Date</u>	<u>Description</u>	<u>Change</u>	<u>Contract Amount</u>
03-014*	28 April 83	Panchagar revised water system Delete D21, 22 & 23 Net	\$ 17,717.03 (19,152.00) ( 1,434.97)	\$ 48,926,317.65
M1-015*	28 April 83	Santahar revised water system Delete D21, 22 & 23 Net	\$ 13,590.85 (19,152.00) ( 5,561.15)	\$ 48,920,756.50
02-016*	28 April 83	Shibganj revised water system Delete D21, 22 & 23 Net	\$ 12,359.85 (19,152.00) ( 6,792.15)	\$ 48,913,964.35
M3-017*	28 April 83	Bogra revised water system Delete D21, 22 & 23 Net	\$ 14,388.85 (19,152.00) ( 4,763.15)	\$ 48,909,201.20
P1-018*	28 April 83	Satkhira revised water system Delete D21, 22 & 23 Net	\$ 12,866.21 (19,152.00) ( 6,285.79)	\$ 48,902,915.41
T1-019*	28 April 83	Chuadanga revised water system Delete D21, 22 & 23 Net	\$ 15,777.35 (19,152.00) ( 3,374.65)	\$ 48,899,540.76
N1-020*	28 April 83	Muladuli revised water system Delete D21, 22 & 23 Net	\$ 9,021.43 (19,152.00) (10,130.57)	\$ 48,889,410.19
M1-021*	18 July 83	Santahar Gate substitution	\$ 251.50	\$ 48,889,661.69
D1-022*	08 Aug. 83	Madhupur revised water system Delete D21, 22 & 23 Net	\$ 17,380.25 (14,766.00) 2,614.25	\$ 48,892,275.94
B2-023*	14 Sept. 83	Netrakona revised water system Delete D21, 22 & 23 Net	\$ 12,004.88 (19,152.00) ( 7,147.12)	\$ 48,885,128.82
C4-024*	14 Sept. 83	Melandah revised water system Delete D21, 22 & 23 Net	\$ 13,854.08 (19,152.00) ( 5,297.92)	\$ 48,879,830.90
Q4-025*	14 Sept. 83	Barisal revised water system Delete D21, 22 & 23 Net	\$ 9,600.33 (19,152.00) ( 9,551.67)	\$ 48,870,279.23

CONSTRUCTION CONTRACT CHANGE ORDER STATUS (Continued)

<u>Change Order Number</u>	<u>Date</u>	<u>Description</u>	<u>Change</u>	<u>Contract Amount</u>
K5-026*	14 Sept. 83	Atrai revised water system Delete D21, 22 & 23 Net	\$ 13,605.08 (19,152.00) ( 5,546.92)	\$ 48,864,732.31
L1-027*	14 Sept. 83	Rangpur revised water system Delete D21, 22 & 23 Net	\$ 14,525.83 ( 19,152.00) ( 4,626.17)	\$ 48,860,106.14
L7-028*	14 Sept. 83	Mahendranagar revised water system Delete D21, 22 & 23 Net	\$ 17,431.65 (19,152.00) ( 1,720.35)	\$ 48,858,385.79
04-029*	14 Sept. 83	Charkai revised water system Delete D21, 22 & 23 Net	\$ 14,415.65 (19,152.00) ( 4,736.35)	\$ 48,853,649.44
01-030*	14 Sept. 83	Dinajpur revised water system Delete D21, 22 & 23 Net	\$ 10,201.70 (19,152.00) ( 8,950.30)	\$ 48,844,699.14
S2-031*	14 Sept. 83	Kaliganj revised water system Delete D21, 22 & 23 Net	\$ 14,964.93 (19,152.00) ( 4,187.07)	\$ 48,840,512.07
T2-032*	14 Sept. 83	Kushtia revised water system Delete D21, 22 & 23 Net	\$ 13,045.28 (19,152.00) ( 6,106.72)	\$ 48,834,405.35
H1-033*	14 Sept. 83	Feni revised water system Delete D21, 22 & 23 Net	\$ 12,063.12 (10,770.00) 1,293.12	\$ 48,835,698.47
Q4-034 *	15 Sept. 83	Barisal concrete piles Delete sand piles and floor (A27 and B11) Net	\$ 156,418.75 (268,100.07) (111,681.32)	\$ 48,724,017.15
K5-035*	22 Dec. 83	Atrai concrete piles, pontoon, site work Delete sand piles Net	( 11,523.66) (196,000.00) (207,523.66)	\$ 48,516,493.49

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\* Not yet signed and approved by BADC

## INTERNATIONAL ENGINEERING COMPANY, INC.

## FORCE REPORT

31 DECEMBER, 1983

A. Dhaka Office

1. K.F. Ahmed	Chief Accountant
2. A.K. Chowdhury	Expeditor
3. Niranjan Paul	Expeditor
4. Md. Enayetullah	Secretary
5. Khurshid Ahsan	Purchase Agent
6. Mizanur Rahman Sikder	Admin. Assistant
7. Benjamin Gomes	Admin. Assistant
8. Danzil Gonsalves	Printer
9. Idris M. Khan	Driver
10. Moazzam Hossain	Driver
11. Md. Arifullah Khan	Guard
12. Nuruzzaman	Janitor

B. Zone I (Mymensingh)

1. M. Kabir**	Area Office Manager
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C. Zone II (Bogra)

1. R.A. Drayne	Area Office Manager
2. Robin Rozario	Driver

\*\*Stationed at Dhaka

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## DEVELOPMENT CONSULTANCY SERVICES LTD.

## FORCE REPORT

31 DECEMBER, 1983

A. Dhaka Office & Lab.

1.	Quazi Hamidur Rahman	Associate Project Manager (Part Time)
2.	M.K. Zaman	Office Engineer
3.	Fazlul Wahhab	Tech. Asst. to P.M.
4.	Syed Reza Ali	Senior Field Engineer
5.	Shahadat Ali Sarker	Senior Field Engineer
6.	A.K.M. Manjur Hossain	Cost Engineer
7.	Sk. Rezaul Haque	Materials Engineer
8.	Parimal Bikash Sutradhar	Engineer
9.	Q. Ahmed Najee	Land Procurement Office (at BADC)
10.	Rafiqul Islam	Inspector (Electrical)
11.	Sk. Zameul Haque	Mat. Lab. Technician
12.	Abdul Wahed	Mat. Lab. Technician
13.	Rebeka Sultana	Mat. Lab. Technician
14.	Akshay Kumar Roy	Draftsman
15.	Nigar Rashida	Draftsman
16.	Rafia Akhter	Draftsman
17.	Rezaul Karim	Accounts Assistant
18.	Aftab Alam	Typist (at BADC)
19.	Mojibur Rahman	Mat. Lab. Assistant
20.	Abdur Rashid	Mat. Lab. Assistant
21.	A. Motaleb	Instrumentman
22.	Md. Nizamuddin	Chainman
23.	Abul Bashar	Rodman
24.	Badrudin	Driver
25.	Mohammad Abrar <sup>#</sup>	Driver
26.	Sultan Ahmed	Driver
27.	Shafiqur Rahman	Driver
28.	Delwar Hossain <sup>#</sup>	Driver (at BADC)
29.	Faiz Chowdhury	Messenger
30.	Ulfat Ali	Messenger
31.	Jahanara Begum	Messenger/Receptionist
32.	Aminuddin	Guard
33.	Muksed Ali Chowdhury	Guard
34.	Shahabuddin Khan	Guard (at BADC)

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B. Zone-ISub-Zone I-A (Comilla)

1. Emdadul Ghani	Senior Field Engineer (Feni)
2. Azmal Khan*	Inspector (Feni)
3. N.C. Lewis	Inspector (Feni)
4. Abul Kalam Azad	Mat. Lab. Tech. (Feni)
5. Nurul Momen Khan	Mat. Lab. Asst. (Feni)

Sub-Zone I-B (Mymensingh)

1. Nazrul Islam	Senior Field Engineer
2. Haider Farooq	Field Engineer (Madhupur)
3. Munshi Abu Jaffar	Field Engineer (Melandah)
4. Shafiqur Rahman	Field Engineer (Netrakona)
5. Monowar Ali Khan	Inspector (Madhupur)
6. Zahidul Islam	Inspector (Melandah)
7. Majedur Rahman	Inspector (Netrakona)
8. Md. Abdur Rouf	Mat. Lab. Tech. (Sub-Zone I-B)
9. Md. Shahid Khan	Mat. Lab. Tech. (Sub-Zone I-B)
10. Tajul Islam Khan	Mat. Lab. Asst. (Sub-Zone I-B)
11. Shafique Uddin Ahmed	Mat. Lab. Asst. (Sub-Zone I-B)
12. Khurshid Alam*	Mat. Lab. Asst. (Sub-Zone I-B)
13. Abdul Malek Fakir	Driver
14. Md. Yusuf Ali	Driver
15. Md. Shahabuddin	Messenger

Sub-Zone I-C (Barisal)

1. Md. Mohsin Ali*	Senior Field Engineer
2. Habibur Rahman Khan	Field Engineer (Barisal)
3. Syed Gasuddin Ahmed	Field Engineer (Bhola)
4. Nazimul Islam	Inspector (Barisal)
5. A.K.M. Harun-ur-Rashid	Inspector (Bhola)
6. Md. Nurun Nabi	Mat. Lab. Tech. (Sub-Zone I-C)
7. Syed Humayun	Mat. Lab. Asst. (Sub-Zone I-C)
8. Shafiqur Rahman	Mat. Lab. Asst. (Sub-Zone I-C)
9. Md. Alamgir (Alam)	Messenger

C. Zone II (Bogra)

1. Rafiqus Salehin	Senior Field Engineer (Santahar/Atrai).
2. Mohi-uz-Zaman Quazi	Senior Field Engineer (Sub-Zone II-B)
3. Mahbubur Rahman	Field Engineer (Zone Lab. In-charge)
4. A.H. Nazrul Islam	Field Engineer (Dinajpur)
5. Abdur Razaque	Field Engineer (Rangpur)
6. Sagar Krishna Chakraborty	Field Engineer (Mahendranagar)
7. Md. Saimum Haque	Field Engineer (Charkai)
8. Mohammad Alam*	Inspector (Santahar)
9. Md. Sekandar Ali	Inspector (Dinajpur)
10. Sheikh Md. Farooq	Inspector (Mahendranagar)
11. Mofazzal Hossain	Inspector (Rangpur)
12. Rabindranath Sarkar	Inspector (Atrai)
13. S.A. Asghar*	Inspector (Atrai)
14. Ejabuddin Patwary	Inspector (Charkai)
15. Shamsur Rahman	Mat. Lab. Tech. (Atrai)
16. Sabbir Hossain	Mat. Lab. Tech. (Dinajpur)
17. Abdur Rashid	Mat. Lab. Tech. (Mahendranagar)
18. Golam Mohammad	Mat. Lab. Tech. (Charkai)
19. Rafatullah*	Mat. Lab. Tech. (Rangpur Lab)
20. Raisuddin	Mat. Lab. Asst. (Atrai)
21. Md. Abdul Nader*	Mat. Lab. Asst. (Rangpur)
22. Abu Taher	Mat. Lab. Asst. (Rangpur)
23. Shahjahan Talukder	Mat. Lab. Asst. (Rangpur)
24. Suchit Kumar Das*	Mat. Lab. Asst. (Mahendranagar)
25. Syed Mohiuddin	Mat. Lab. Asst. (Charkai)
26. Kamrul Hassan Khan	Mat. Lab. Asst. (Dinajpur)
27. Golam Ahmed Dastagir	Driver (Rangpur)
28. Dulal Chandra Mohanta	Driver
29. Subodh Chandra Das	Driver (Sub-Zone II-B)
30. Md. Belal	Messenger
31. Ali Ahmed	Guard (Bogra Office)
32. Abdul Gani	Guard (Rangpur Office)

D. Zone III (Ishurdi)

1. Amalendu Debnath	Senior Field Engineer (Rohanpur)
2. Tajul Islam Chowdhury**	Area Office Manager
3. Mostahar Ali	Field Engineer (Rohanpur)
4. Munshi Mojnur Rahman*	Inspector (Amnura)
5. Bazlur Rahman	Inspector (Rohanpur)
6. Humayun Kabir Khan*	Mat. Lab. Tech. (Zonal Lab.)
7. Talukder Obaidur Rahman*	Mat. Lab. Tech. (Rohanpur)
8. Dilip Kumar Dey*	Mat. Lab. Asst. (Ishurdi)
9. Zahirul Islam Khan*	Mat. Lab. Asst. (Ishurdi)
10. Shamsul Islam*	Mat. Lab. Asst. (Amnura)
11. Anil Kumar Chowhan*	Mat. Lab. Asst. (Rohanpur)
12. Ali Hossain	Driver
13. Abdul Quddus*	Guard
14. Tofayel Hossain Gazi*	Messenger

\* Resigned/was terminated December 1983.

\*\* Stationed at Dhaka.

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USAID IMPROVEMENT GRANT

IECO CONTRACT 9074

APPENDIX III

Sheet 1 of 4

CONSULTANCY EXPENDITURE BUDGET

Schedule I	Budget	JOB TO DATE		OCTOBER 1983		Balance
		Dollars	Taka As Dollars	Dollars	Taka As Dollars	
<u>Resident Consultant Related Cost</u>						
A. Salary	1,029,900	932,574.06	-	27,120.31	-	97,325.94
B. Payroll						
C. Overhead	1,071,100	969,877.03	-	28,205.12	-	101,222.97
D. Air Travel	60,000	56,341.99	606.18	-	-	3,051.83
E. Freight Cost	51,000	31,000.00	4,383.87	-	869.18	15,616.13
F. Excess Baggage	9,966	2,037.97	-	98.44	-	7,928.03
G. Processing Cost	3,450	2,923.92	343.28	-	28.57	182.80
H. Personal Automobiles	5,000	-	-	-	-	5,000.00
I. Settling-in Cost	40,500	31,240.91	-	-	-	9,259.09
J. Housing Allowance	171,160	-	156,773.97	-	5,039.69	14,386.03
K. Furniture & Equipment	77,000	28,464.59	37,952.75	-	-	10,582.66
L. Education Allowance	15,000	5,025.00	29,925.43	-	-	(19,950.43)
M. Terminal Leave	68,620	-	-	-	-	68,620.00
N. Medical Care	16,425	48.19	729.16	-	-	15,647.65
O. Int'l Travel Per Diem	13,500	11,765.31	2,376.51	-	-	(641.82)
P. In-country Travel Per Diem	18,538	-	9,138.29	-	303.28	9,399.71
	\$ 2,651,159	2,071,298.97	242,229.44	55,423.87	6,240.72	337,630.59
Say	\$ 2,651,000					337,471.59

USAID IMPROVEMENT GRANT

IECO CONTRACT 9074

APPENDIX III

Sheet 2 of 4

CONSULTANCY EXPENDITURE BUDGET

Schedule II	Budget	JOB TO DATE		OCTOBER 1983		Balance
		Dollars	Taka As Dollars	Dollars	Taka As Dollars	
<u>Short Term Consultant Related Cost</u>						
A. Salaries	12,000	10,992.70	-	-	-	1,007.30
B. Payroll Cost						
C. Overhead Cost	14,640	13,411.10	-	-	-	1,228.90
D. Specialist Consultants Fees	14,700	17,529.72	-	-	-	(2,829.72)
E. Air Travel	6,000	6,988.00	-	-	-	( 988.00)
F. Excess Baggage	906	87.40	-	-	-	818.60
G. Processing Cost	600	24.00	-	-	-	576.00
H. Temporary Accommodation	10,640	9,313.69	-	-	-	1,326.31
I. Int'l Travel Per Diem	1,350	1,520.65	-	-	-	( 170.65)
	<u>\$ 60,836</u>	<u>59,867.26</u>				<u>968.74</u>
Say	<u>\$ 61,000</u>					<u>1,132.74</u>

CONSULTANCY EXPENDITURE BUDGET

Schedule III	Budget	JOB TO DATE		OCTOBER 1983		Balance
		Dollars	Taka As Dollars	Dollars	Taka As Dollars	
<u>A. Office Rental, Equipment and Maintenance</u>						
1. Dhaka Office	52,860	-	54,670.44	-	719.74	(1,810.44)
2. Area Office Including Lab.	25,450	-	25,158.09	-	602.37	291.91
3. Furniture & Equipment	55,800	15,331.32	52,450.71	-	108.78	(11,982.03)
4. Office Supplies & Stationery	40,125	12,380.44	28,209.80	-	13.43	( 465.24)
5. Reproduction Cost	54,900	383.88	52,710.84	-	151.89	1,805.28
6. Communication Cost	13,050	60.00	10,753.58	-	127.90	2,236.42
<u>B. Vehicle Operation &amp; Maint.</u>						
1. Vehicle Rental	11,250	-	12,049.13	-	-	( 799.13)
2. Vehicle Operation & Maintenance	255,050	-	237,145.85	-	4,174.50	17,904.15
<u>C. Direct Hire Local Admin. Personnel</u>						
	130,900	-	141,247.52	-	2,643.81	(10,347.52)
<u>D. Soil Testing Charges</u>						
	33,000	-	30,124.62	-	29.63	2,875.38
<u>E. Subcontract DCS (Table 6B)</u>						
	993,450	-	867,728.70	-	29,706.31	125,721.30
<u>F. Local Travel</u>						
	23,500	-	23,238.81	-	1,220.39	261.19
<u>G. Misc. Field &amp; Office Expenses</u>						
	18,000	25.00	14,738.55	-	146.94	3,236.45
	\$ 1,707,335	28,180.64	1,550,226.64	-	39,645.69	128,927.72
Say	\$ 1,707,000					128,592.72

CONSULTANCY EXPENDITURE BUDGET

Schedule IV	Budget	JOB TO DATE		Dollars	Taka As Dollars	Balance
		Dollars	Taka As Dollars			
<u>IECO Headquarter Related Cost</u>						
A. Salaries	93,300	99,073.13	-	-	-	(5,773.13)
B. Payroll Cost	113,830	120,627.77	-	-	-	(6,797.77)
C. Overhead Cost						
D. Officers' & Managers' Visits	18,600	20,585.30	-	-	-	(1,985.30)
E. Computer Cost	7,000	12,684.99	-	-	-	(5,684.99)
F. Communication Cost	19,500	12,939.42	-	274.81	-	6,560.58
G. Reproduction Cost	10,000	3,394.96	-	33.57	-	6,605.04
H. Bond Cost & Commission	5,000	2,684.08	-	-	-	2,315.92
	<u>\$ 267,230</u>	<u>271,989.65</u>	<u>-</u>	<u>308.38</u>	<u>-</u>	<u>(4,759.65)</u>
Say	\$ 267,000					(4,989.65)
<u>Schedule V</u>						
A. <u>Equipment Purchased for Project</u>						
1. Transport Equipment	156,700	75,520.00	14,995.56	-	-	66,184.44
2. Survey Equipment	19,000	19,036.63	871.00	-	-	( 907.63)
3. Soil Lab. Equipment	21,700	10,242.89	8,181.64	-	-	3,275.47
4. Material Lab.	26,000	21,730.30	12,955.95	-	-	(8,686.25)
5. Minor Equipment, Tools and Spare Parts	29,000	20,209.94	210.23	(2,056.19)	-	8,579.83
B. <u>Shipping, Insurance and Clearance Costs</u>	<u>77,600</u>	<u>59,547.54</u>	<u>7,539.00</u>	<u>-</u>	<u>-</u>	<u>10,513.46</u>
	<u>330,000</u>	<u>206,287.30</u>	<u>44,753.38</u>	<u>(2,056.19)</u>	<u>-</u>	<u>78,959.32</u>
<u>Schedule VI</u>						
Fixed Fee	<u>501,000</u>	<u>471,934.37</u>	<u>-</u>	<u>7,266.67</u>	<u>-</u>	<u>29,065.63</u>
	<u>\$ 5,517,000</u>	<u>3,109,558.19</u>	<u>1,837,209.46</u>	<u>60,942.73</u>	<u>45,886.41</u>	<u>570,232.35</u>
Total Expenditure to Date	= 4,839,938.51					
Percent of Budget Spent to Date	= 87.73%					
Contract Time Elapsed	= 92.61%					

Schedule I	JOB TO DATE			NOVEMBER 1983		
	Budget	Dollars	Taka As Dollars	Dollars	Taka As Dollars	Balance
<u>Resident Consultant Related Cost</u>						
A. Salary	1,029,900	951,957.93	-	19,383.87	-	77,942.07
B. Payroll X						
C. Overhead X	1,071,100	990,036.25	-	20,159.22	-	81,063.75
D. Air Travel	60,000	56,341.99	606.18	-	-	3,051.83
E. Freight Cost	51,000	33,500.00	4,383.37	2,500.00	-	13,116.13
F. Excess Baggage	9,966	2,037.97	-	-	-	7,928.03
G. Processing Cost	3,450	2,923.92	343.28	-	-	182.80
H. Personal Automobiles	5,000	-	-	-	-	5,000.00
I. Settling-in Cost	40,500	31,240.91	-	-	-	9,259.09
J. Housing Allowance	171,160	-	156,873.57	-	99.60	14,286.43
K. Furniture & Equipment	77,000	28,464.59	37,952.75	-	-	10,582.66
L. Education Allowance	15,000	5,025.00	29,925.43	-	-	(19,950.43)
M. Terminal Leave	68,620	-	-	-	-	68,620.00
N. Medical Care	16,425	48.19	1,083.19	-	354.03	15,293.62
O. Int'l Travel Per Diem	13,500	12,635.31	2,376.51	870.00	-	(1,511.82)
P. In-Country Travel Per Diem	18,538	-	9,378.88	-	240.59	9,159.12
	\$ 2,651,159	2,114,212.06	242,923.66	42,913.09	694.22	294,023.28
Say	\$ 2,651,000					293,864.28

USAID IMPROVEMENT GRANT

IECO CONTRACT 9074

APPENDIX IV

Sheet 2 of 4

CONSULTANCY EXPENDITURE BUDGET

<u>Schedule II</u>	<u>Budget</u>	<u>JOB TO DATE</u>		<u>NOVEMBER 1983</u>		<u>Balance</u>
		<u>Dollars</u>	<u>Taka As Dollars</u>	<u>Dollars</u>	<u>Taka As Dollars</u>	
<u>Short Term Consultant Related Cost</u>						
A. Salaries	12,000	10,992.70	-	-	-	1,007.30
B. Payroll Cost I						
C. Overhead Cost I	14,640	13,411.10	-	-	-	1,228.90
D. Specialist Consultants Fees I	14,700	17,529.72	-	-	-	(2,829.72)
E. Air Travel	6,000	6,988.00	-	-	-	( 988.00)
F. Excess Baggage	906	87.40	-	-	-	818.60
G. Processing Cost	600	24.00	-	-	-	576.00
H. Temporary Accommodation	10,640	9,313.69	-	-	-	1,326.31
I. Int'l Travel Per Diem	1,350	1,520.65	-	-	-	( 170.65)
	<u>\$ 60,836</u>	<u>59,867.26</u>				<u>968.74</u>
Say	<u>\$ 61,000</u>					<u>1,132.74</u>

Schedule III	Budget	JOB TO DATE		NOVEMBER 1983		Balance
		Dollars	Taka As Dollars	Dollars	Taka As Dollars	
<u>A. Office Rental, Equipment and Maintenance</u>						
1. Dhaka Office	52,860	-	55,112.03	-	441.59	(2,252.03)
2. Area Office Including Lab.	25,450	-	25,612.48	-	454.39	( 162.48)
3. Furniture & Equipment	55,800	15,331.32	52,911.84	-	461.13	(12,443.16)
4. Office Supplies & Stationery	40,125	12,380.44	28,439.19	-	229.39	( 694.63)
5. Reproduction Cost	54,900	383.83	51,358.37	-	(1,352.47)	3,157.75
6. Communication Cost	13,050	60.00	10,854.14	-	100.56	2,135.86
<u>B. Vehicle Operation &amp; Maint.</u>						
1. Vehicle Rental	11,250	-	12,049.13	-	-	( 799.13)
2. Vehicle Operation & Maintenance	255,050	-	240,026.44	-	2,880.59	15,023.56
<u>C. Direct Hire Local Admin. Personnel</u>	130,900	-	143,559.48	-	2,711.96	(13,059.48)
<u>D. Soil Testing Charges</u>	33,000	-	30,226.84	-	102.22	2,773.16
<u>E. Subcontract DCS (Table 6B)</u>	993,450	-	895,081.55	-	27,352.85	98,368.45
<u>F. Local Travel</u>	23,500	-	24,274.43	-	1,035.62	( 774.43)
<u>G. Misc. Field &amp; Office Expenses</u>	18,000	25.00	14,908.73	-	170.18	3,066.27
	\$ 1,707,335	28,180.64	1,584,814.65	-	34,588.01	94,339.71
Say \$	1,707,000					94,004.71

Schedule IV	Budget	JOB TO DATE		NOVEMBER 1983		Balance
		Dollars	Taka As Dollars	Dollars	Taka As Dollars	
<u>IECO Headquarter Related Cost</u>						
A. Salaries	93,300	99,073.13	-	-	-	( 5,773.13)
B. Payroll Cost X	113,830	120,627.77	-	-	-	(6,797.77)
C. Overhead Cost X						
D. Officers' & Managers' Visits	18,600	20,585.30	-	-	-	( 1,985.30)
E. Computer Cost	7,000	12,684.99	-	-	-	( 5,684.99)
F. Communication Cost	19,500	13,115.57	-	176.15	-	6,384.43
G. Reproduction Cost	10,000	3,394.96	-	-	-	6,605.04
H. Bond Cost & Commission	5,000	2,684.08	-	-	-	2,315.92
	\$ 267,230	272,165.80	-	176.15	-	( 4,935.80)
	Say \$ 267,000					( 5,165.80)
<u>Schedule V</u>						
A. <u>Equiprent Purchased for Project</u>						
1. Transport Equiprent	156,700	75,520.00	14,995.56	-	-	66,184.44
2. Survey Equiprent	19,000	19,036.63	871.00	-	-	( 907.63)
3. Soil Lab. Equiprent	21,700	10,242.89	8,181.64	-	-	3,275.47
4. Material Lab.	26,000	21,730.30	12,955.95	-	-	( 8,686.25)
5. Minor Equiprent, Tools and Spare Parts	29,000	20,209.94	210.23	-	-	8,579.83
B. <u>Shipping, Insurance and Clearance Costs</u>	77,600	59,547.54	7,539.00	-	-	10,513.46
	330,000	206,287.30	44,753.38	-	-	78,959.32
<u>Schedule VI</u>						
Fixed Fee	501,000	479,201.04		7,266.67		21,798.96
	\$ 5,517,000	3,159,914.10	1,872,491.69	50,355.91	35,282.23	484,594.21
Total Expenditure to Date	= 5,032,405.79					
Percent of Budget Spent to Date	= 91.21%					
Contract Time Elapsed	= 96.08%					