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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. 45

JUNE 1963

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

**Bangladesh Agricultural Development Corporation
USAID Fertilizer Distribution
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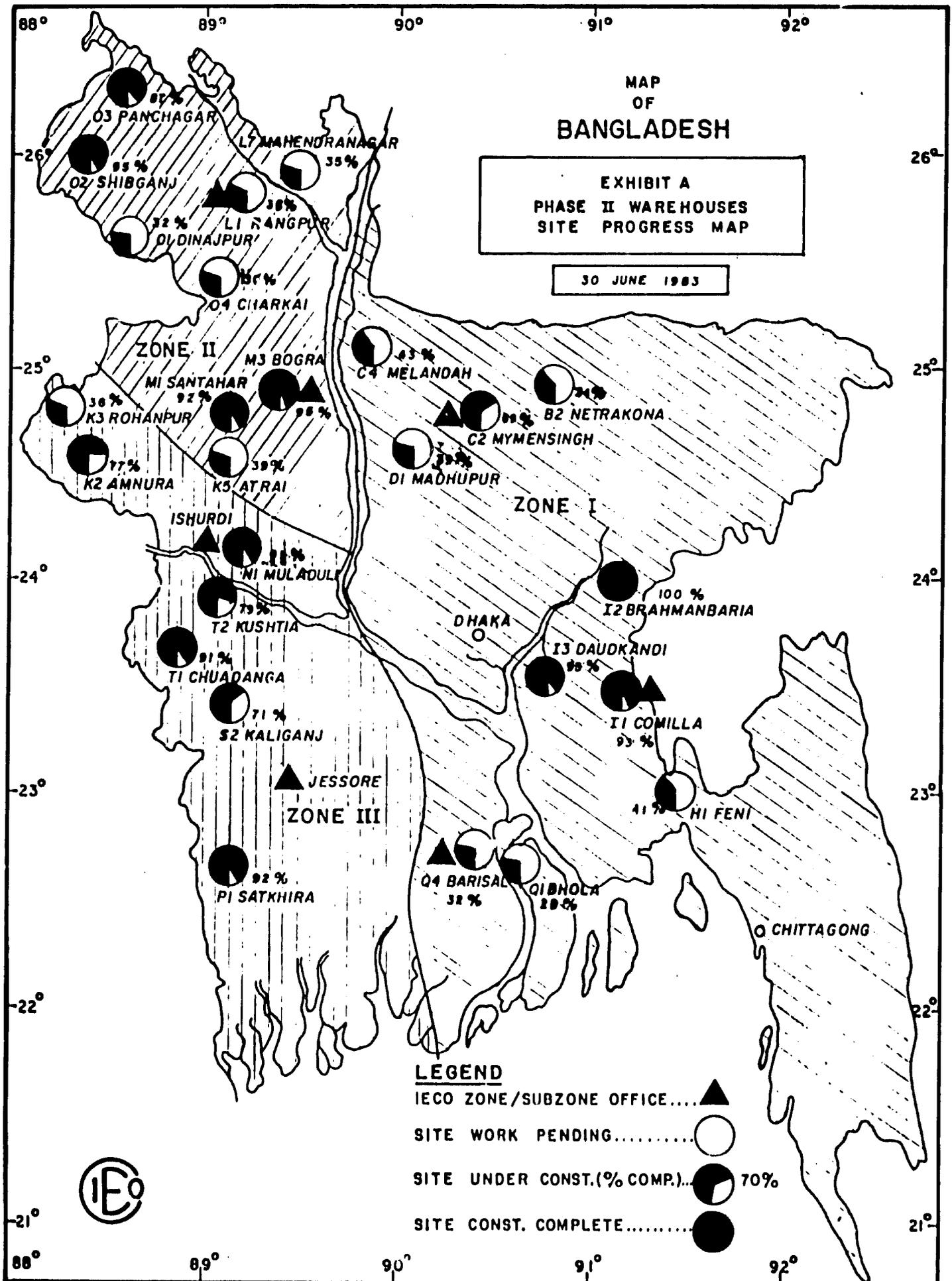
MONTHLY PROGRESS REPORT NO. 45

JUNE 1983

**CONSULTING
ENGINEERS**

INTERNATIONAL ENGINEERING COMPANY, INC.

A MORRISON-KNUDSEN COMPANY



MONTHLY PROGRESS REPORT NO. 45
MONTH OF JUNE, 1983
TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
Warehouse Site Progress Man	1 Sheet
1 General	1
2 Contract Administration	2
3 Contract Expenditures	3
4 Expatriate Staff -- IECO	4
5 Meetings	4
6 Pending Activities and Activities in Progress	5
6.1 For Action by BADC	5
6.2 For Action by IECO	5
7 Engineering Activities	5
7.1 Materials and Foundations Engineering	5
7.2 Office and Field Engineering	6
7.3 Rail Siding Construction Arrangements	6
8 Construction Surveillance	13
8.1 General	13
8.2 Zone I (Comilla)	13
C2 Mymensingh	13
D1 Madhupur	13
C4 Melandah Bazar	14
B2 Netrakona	14
I1 Comilla	15
H1 Feni	15
I3 Daudkandi	16
Q1 Bhola	16
Q4 Barisal	17
8.3 Zone II (Bogra)	18
M1 Santahar	18
M3 Bogra	19
O2 Shibganj	19
O3 Panchagar	20
O1 Dinaipur	21
K5 Atrai	21
L1 Rangpur	22
O4 Charkai	22
L7 Mahendranagar	23
8.4 Zone III (Ishurdi)	24
K3 Rohanpur	24
K2 Amnura	24
N1 Muladuli	25
T2 Kushtia	26
T1 Chuadanga	27
S2 Kaliganj	28
P1 Satkhira	28

Section

Page

9 Contractor's Activities (KDC Report Abstract)

Not included as KDC Report was not received at the time of publication of this report.

Overall Progress Schedule

1 sheet

10 Contract Financial Summary - Dollars

30

11 Construction Contract Change Order Status

31

Appendices

I IECO Force Report

1 sheet

II DCS Force Report

4 sheets

III Consultancy Expenditure Budget May 1983

4 sheets

CONTRACT 9074
4 July 1983

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

INTERNATIONAL ENGINEERING COMPANY, INC.
CONSULTING ENGINEERS

MONTHLY PROGRESS REPORT NO. 45
FOR THE PERIOD JUNE 1-30, 1983

1. GENERAL

Construction progress narrowly failed to match the overall planned work accomplishment for June, with attainment exceeding the scheduled progress at nine sites, generally matching the schedule at seven sites, and failing to maintain scheduled progress at eight sites. The work at individual sites is reported in detail in Section 8, and the sitewise work status is included in the accompanying Overall Progress Schedule chart.

The account of progress at the end of June is made for each of the three Zones in the following summations:

The ten Zone-I sites in the east, north and south (see map) together represent 32.3% of the Phase-II construction program in terms of anticipated construction cost. Work completion in Zone-I has reached 58.1%, matching the work program in the new schedules. Sitework completion ranges from 100% at Brahmanbaria and 95% at Daudkandi down to 29.3% at Bhola. Work progress lags at Bhola and Netrakona. Daudkandi and Comilla are close to completion.

The nine Zone-II sites in the northwest (see map) represent 46.0% of the re-projected construction cost of the Phase-II program and the sites are 67.7% complete against the 69.6% in the new schedules. Work completions range from 95.0% at Shibganj down to 29.5% at Charkai. Special efforts are being made by the Engineer to assist the Contractor in scheduling final tasks at the four sites nearing completion, but the accomplishments in June at Santahar, Bogra and Pauchagar reflected very little progress. Work at the five less developed sites is proceeding satisfactorily.

The seven Zone-III sites in the southwest (see map) represent 21.7% of the estimated construction cost of the Phase-II program and the sites are 76.5% constructed against the 75.9% scheduled in the new bar charts. Sitework completions range from 92.3% at Satkhira and 91.1% at Muladuli down to 35.7% at Rohanpur. Special efforts are being made by the Engineer to assist the Contractor in carrying out the final tasks at Muladuli, which is scheduled for completion in August. The finishing work programs at Chuadanga and Satkhira are in progress, with likelihood that these sites can be completed in August.

Overall, the Phase-II construction program is 66.5% complete against the 67.2% planned in the new bar chart schedules. Progress in June was 5.9%, somewhat lagging the 6.4% scheduled for accomplishment. By promptly finishing the sites nearing completion, KDC should be able to regain and even exceed the projected work program; only three of the less advanced sites are lagging the schedules.

DCS field staff was reduced by 6 to 143 personnel at the end of June. IECO local staff remained at 20 personnel. IECO and DCS force reports are appended.

2. CONTRACT ADMINISTRATION

Change Orders

- In a meeting with USAID, and by letter, BADC was given background information on Change Order format. This facilitates signature and approval of pending Change Orders:

C2-007 Mymensingh Piles
 C4-009 Melandah Piles
 B2-010 Netrakona Piles
 Revised Water Supply System C.O.'s
 I2-011 Brahmanbaria
 I1-012 Comilla
 I3-013 Daudkandi
 O3-014 Panchagar
 M1-015 Sentahar
 O2-016 Shibganj
 M3-017 Bogra
 P1-018 Satkhira
 T1-019 Chuadanga
 N1-020 Muladuli

Amendment No. 1 to BADC/KDC Contract

- BADC Member-Director (Irri.) will pursue and take up with BADC Board of Directors.

Subcontracts

- The Madhupur ancillary building sub-contract was reviewed and approved subject to certain conditions. Ancillary building subcontracts were received for Bhola, Barisal and Netrakona. KDC was directed to cancel the subcontract with Orbit Enterprise at Dinajpur and to execute this work themselves. The subcontract was cancelled.

**Rail Siding
Material Procurement**

- See new Section 7.3.

Cost Projections

- Construction cost projections, based on a BQ type format, were provided to BADC, AID and KDC.

KDC Imports

- KDC material and equipment lists for newly imported and previously imported items were reconciled and distributed for BADC, KDC and IECO use.

Dayworks

- No new dayworks were authorized by the Engineer in June.

3. CONTRACT EXPENDITURES

June, 1983 Taka expenditures reimbursable by USAID were:

Local Salary	80,767.00
Office Supplies & Expenses	14,350.75
Dhaka Office Rent/Maint./Utilities	11,903.54
Area Office Rent/Maint./Utilities	19,291.26
Office Furniture & Equipment	1,390.00
Vehicle Operation	137,434.55
Soils Lab. Works	9,770.50
House Rent/Maint./Utilities	13,779.00
House Furniture	3,300.00
Demob Air Fares	85,929.55
DCS	809,288.87
Local Travel	35,054.01
Expat Per-diem & Hotel	9,680.00
Miscellaneous	3,302.30

Total Taka: 1,235,241.33

Expenses reimbursable through BADC's Duties & Taxes Account were Taka 15,40,581.77

May's expenditure budget is appended.

4. EXPATRIATE STAFF - IECO

In-country expatriate staff during June:

F.E. Isgrig	Project Manager
C.F. Leonhardt	Chief Field & Construction Engineer
D. Lovely	Contract Administrator
M. Lim	Construction Engineer
S.J. Hewick	Construction Engineer
H. Tchen	Construction Engineer
A Htay	Materials Engineer (Demobilized 7 June)

5. MEETINGS

05 June	BADC/USAID / IECO	Change Order signatures; Change Orders - Deleted Works; and Dayworks discussed.
20 June	BADC/KDC / USAID/IECO	Progress Meeting No. 21: Construction methods and problems; site-specific discussions and progress reports; electrical service; material cost differentials; shipping; rail sidings - tenders and construction; amendment 1 to KDC contract; change orders; and site turnover schedule.
21 June	Ministry of Agriculture / ERD/BADC/BR / USAID/IECO	Material supply and use in rail sidings; procurement of material; replacement of BR stock used; quantity and cost estimates; work schedules.
26 June	BADC/BR/IECO	Supply of rail material; procurement of replacement material; rail siding construction.
26 June	USAID/IECO	Rail siding material: local procurement; offshore procurement.
28 June	Ministry of Agriculture / ERD/BADC/BR / USAID/IECO	Rail siding material procurement arrangements; cost estimates; financing of procurements and construction.

6. PENDING ACTIVITIES AND ACTIVITIES IN PROGRESS

6.1 For Action by BADC

a. Site clearance/obstruction removal activities:

- Rangpur - BADC to finalize Burmah-Eastern agreement. One power pole and one telegraph post within the alignment of BE's extended siding require relocation.
- Bogra - One guy wire still remains in the alignment of off-site railway embankment. This requires relocation.

b. Sign outstanding Change Orders.

c. Review for approval Amendment No. 1 to BADC/KDC contract.

d. Work with PDB on supply of transformers.

6.2 For Action by IECO

- a. Finalise cost estimates of rail siding in conjunction with BR and have BR submit them to BADC for approval of BADC & USAID.
- b. Complete Rohanpur slope stability analysis and finalize design of fill and protective works.
- c. Award purchase orders (contracts) for rail material procurement as necessary.

7. ENGINEERING ACTIVITIES

7.1 Materials Engineering

Gradation tests on concrete aggregates and imported soil materials, and field density tests on engineered fill, were carried out at Feni, Bhola, Barisal, Mymensingh, Madhupur, Melandah Bazar, Netrakona, Rohanpur, Amura, Kushtia, Kaliganj, Chuadanga, Atrai, Santahar, Mahendranagar, Rangpur, Charkai and Dinajpur sites.

Crushing strength tests were carried out at Dhaka and at the Zonal Laboratories on concrete cylinders from Comilla, Feni, Barisal, Bhola, Mymensingh, Netrakona, Melandah Bazar, Madhupur, Amura, Muladuli, Satkhira, Kaliganj, Kushtia, Chuadanga, Rohanpur, Atrai, Santahar, Mahendranagar, Rangpur, Charkai, Shibganj and Dinajpur.

Bricks and concrete sand samples were tested at Dhaka Laboratory for possible use at Rangpur, Mahendranagar, Natrakona, Madhupur, Barisal, Bhola and Comilla.

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

7.2 Office and Field Engineering

A layout plan of the through-shoot connecting the existing broad gauge yard at Santahar with the rail siding was drawn. Detailed drawings of component parts of points and crossings were traced from standard railway drawings for the guidance of manufacturers.

Revised site plans of Atrai and Rohanpur were drawn and supplemental construction drawings prepared for work at both sites: five drawings for Atrai and fourteen for Rohanpur. A drawing for the 24' rail siding access gate at Santahar was prepared for issue.

Office studies, field surveys and soils investigations and testing were carried out during June to verify stability and ascertain soils characteristics of the embankment construction on parts of the Rohanpur site. Also, investigation of potential slope erosion due to river scouring action was made, and plans developed for a gabion installation to control or eliminate slope damage in high floods.

7.3 Rail Siding Construction Arrangements

The Government has determined that the GOB, through Bangladesh Railways, will provide materials for construction of the fourteen rail sidings. The materials will be furnished from available stocks and also through local procurements. It is the objective to make plans and effect the procurements, and proceed with the siding construction as soon as possible: all fourteen sidings to be constructed by the end of 1983.

Some materials to be furnished by BR, either from stocks or by local procurement, need not now be procured under the present international tender. For other materials, the international procurement will be made in order to replace BR stocks. Two meetings were convened in June under Ministry of Agriculture auspices, to discuss and decide about the specific arrangements for siding construction; and an initial procurement planning session was held by BR, DADC and IECO. It has been determined that BR will procure required track materials to the extent they are available locally; the specific list of items for procurement to be established with DADC/IECO. Separately, selected items furnished by BR from new stock will be replaced through the international procurement being made by DADC/IECO.

Sitewise estimates of construction cost, now in preparation, will be finalized by FR in consultation with IECO. When approved by BADC and USAID, these will be the basis for USAID F.A.R. payments for completed construction. Schedules for DR siding construction at each site will be developed as soon as the materials procurement program has been established. All planning has the objective of completing the program in 1983.

The international procurement tenders, involving twelve separate invitations for various types of materials, were opened by IECO on 15 June as scheduled, in the presence of the tenderers, BADC and USAID. Preliminary evaluations were made, and provided to BADC and USAID with copies of the tender documents. Recommendations concerning procurement of specific materials offshore will be made in July; as will a recommendation for a local procurement of other required materials.

CONSOLIDATED REPORT
MATERIALS TESTING

Sheet 1 of 2

Laboratory Reporting:
Dhaka

Reporting Period:
From 26 May To 25 June

CONCRETE Compressive Strength Test		No. of Tests at			Samples Passed at 28 days	Remarks
Site	Location	7 days	14 days	28 days		
Cmilla	Slab on grade, ancl. bldg. type A1, roof slab of public toilet, roof slab of ancl. bldg. type A1, stair of platform.	2	-	3	3	All passed. One field-cured cyl. also tested in this reporting period from godown platform and passed which was requested to send in last reporting period.
Feni	Int. column, footing, shear wall, int. & ext. column, grade beam water storage tank support, tie beam.	11	-	12	12	All passed. One field-cured cyl. also tested and passed from godown ext. colm. and grade beam, which was requested to send in last reporting period. Also three cyl. were tested for 13-day, 10-day & 9-day respectively.
Bhola	Foundation bed of ancl. bldg. A1 type. pile cap.	10	-	4	2	Two lab-cured cylinders failed from godown pile cap requested to send field-cured cylinders for test.
Barisal	Trial mix batch pile cap, fence post of boundary wall, pile extension, anchor block, pontoon service road	13	-	5	4	One lab-cured cyl. failed from fence post of boundary wall. Requested to send field-cured cyl. for test.

Cont'd...

**CONSOLIDATED REPORT
MATERIALS TESTING**

Sheet 2 of 2

Laboratory Reporting:
Dhaka

Reporting Period:
From 26 May To 25 June

Materials & Tests	Particulars	Tests Total	Tests Passed	Remarks
BRICK	From Marks -			From marks passed:
Absorption Test	STAR, PTM-83, ARP	9	6	STAR(L1), PTM-83 (L7),
Compressive Strength Test	BC, ZAMAN, NBM, MHR, ABW, GAZI-82	9		BCC(B2), ZAMAN (C2, D1) NBM (R2), GAZI-82(O4).
FINE AGGREGATE				
Gradation Test		5	5	Tests passed: 1(R2), 3(H1), 1(O1).
Specific Gravity Test				
Unit Weight Test				
Lab. Compaction Test				
Field Density Test	Ext. colm. footing & ancl. building	20	20	Tests passed: 8(H1), 12(T1).
COARSE AGGREGATE				
Gradation Test		5	5	Tests passed: 1(H1), 3(O1), 1(O4).
Unit Weight Test				
Specific Gravity Test				
IMPORTED MATERIALS				
Gradation Test		80	60	Tests passed: 60 (O4)
Atterberg limit Test				
Natural M/C				
Specific Gravity Test				
Lab. Compaction Test				
Field Density Test	Engineered fill	87	82	Tests passed: 18(T1), 4(O1), 60(O4).
SPECIAL				
Cement Test(Field Sample) Olympia & Universal Brand	Setting time, 3" mortar cube strength test (1-day & 7-day)	12	12	

**CONSOLIDATED REPORT
MATERIALS TESTING**

Laboratory Reporting:
Mymensingh

Reporting Period:
From 16 May To 25 June

<u>CONCRETE</u>		No. of Tests at		Samples Passed at 28 days	Remarks	
Compressive Strength Test Site	Location	7 days	28 days			
Mymensingh	Roof slab, int. col., road.	11	7	6	One 28-day cyl. failed but field-cured cyl. passed.	
Madhupur	Roof slab, int. & ext. column, beam.	14	8	7	One 28-day cyl. failed but field-cured cyl. passed.	
Melandah	Pile cap, road, int. & ext. column & shear wall	9	5	5	All passed	
Netrakona	Pile cap, river stair, grade beam.	6	8	7	One 28-day cyl. failed but field-cured cyl. passed.	
Materials & Tests		Particulars		Tests Total	Tests Passed	Remarks
<u>BRICK (STACK TEST)</u>		From Marks -				
Compressive Strength Test		MAR, A.1ARI, AAS		93	28+65	28 stacks passed: 5 MAR(D1), 23 AAS(C4) 65 stacks need resorting. 16 MAR. 9 A.BARI 40 AAS.
<u>FINE AGGREGATE</u>						
Gradation Test				7	4	Tests passed: 2(D1), 2(B2).
Specific Gravity Test						
Unit Weight Test						
Lab. Compaction Test						
Field Density Test		Sand fill		16	15	Tests passed: 15 (D1).
<u>COARSE AGGREGATE</u>						
Gradation Test				6	3	Tests passed: 1(C2), 2(B2)
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		35	23	Tests passed: 16 (B2), 3(D1), 4(C4)

CONSOLIDATED REPORT
MATERIALS TESTING

Laboratory Reporting:
Rangpur

Reporting Period:
From 26 May To 25 June

<u>CONCRETE</u>		No. of Tests at			Samples Passed at 28 days	Remarks	
Compressive Strength Test		7 days	14 days	28 days			
Site	Location						
Charkai	Godown	20	7	25	25	All passed	
Shibganj	Road, ancl.	1	4	15	15	All passed	
Dinajpur	Godown, ancl.	17	14	33	33	All passed	
Atrai	R.C. pile	-	-	3	3	All passed	
Santahar	Godown road, ancl., boundary wall	22	6	30	26	4 lab. cyl. failed. Field cyl. to be tested.	
Mahendranagar	Godown	26	2	24	24	All passed	
Rangpur	Godown	17	-	8	7	One lab.-cured cyl. failed. Field-cured cyl. to be tested.	
Materials & Tests		Particulars			Tests Total	Tests Passed	Remarks
<u>BRICK STACK TEST</u>		Frog Marks -					151 stacks passed.
Compressive Strength Test		BSB, KB, MB, MU, STAR, UC, MB, WM-83, MAM, DBM, L/T-83, DBM, MSK			315	151+156	17 BSB(K5), 6KB(K5), 10 MB(K5), 27 MU(K5), 29 STAR(M1), 13 UC(M1), 6 MB (M1), 4 WM-83(L7), 1 MAM (I7), 8 DBM(O4), 14 L/T 83 (O4), 9 DBM (O1), 7 MSK(O1). 156 need resorting: 29 BSB, 3 KB, 2 MB, 3 MU, 4 STAR, 23 UC, 36 WM-83, 2 MAM, 12 DBM, 16 L/T 83, 13 DBM, 13 MSK.
<u>FINE AGGREGATE</u>							
Gradation Test					12	10	Tests passed: 1 (L7), 1 (L1), 7(O4), 1 (O1).
Field Density Test		Sand fill			909	909	Tests passed: 6(M1), 130(L7), 220(L1), 348 (O4), 205 (O1).
<u>COARSE AGGREGATE</u>							
Gradation Test					2	1	Test passed: 1(L7).
<u>IMPORTED MATERIALS</u>							
Gradation Test					36	36	Tests passed: 33(K5), 3(L1).
Field Density Test		Engineered fill			208	208	Tests passed: 87(K5), 70(M1), 51(L1).

CONSOLIDATED REPORT
MATERIALS TESTING

Laboratory Reporting:
Ishurdi

Reporting Period:
From 26 May To 25 June

CONCRETE Compressive Strength Test		No. of Tests at			Samples Passed at 28 days	Remarks	
Site	Location	7 days	14 days	28 days			
Chuadanga	Pent house roof slab Al	-	-	1	1	All passed	
Kushtia	Ancl. bldg. roof, road, platform.	9	1	9	9	All passed	
Annura	Roof slab, road, ancl. bldg, barbed wire post.	18	6	20	19	One 28-day cyl. failed from road. Requested to send field cyl. for test.	
Rohanpur	Shear well, canopy, road	14	-	5	4	One 28-day cyl. failed. But field-cured cyl. passed.	
Muladuli	Ancl. bldg. floor slab	-	-	1	1	All passed	
Satkhira	Floor slab	-	-	1	0	One 28-day cyl. failed. But field-cured cyl. passed.	
Kaliganj	Ancl. bldg, road, godown roof slab.	3	6	15	15	All passed	
Materials & Tests		Particulars			Tests Total	Tests Passed	Remarks
BRICK STACK TEST		Frog Marks ..					
Compressive Strength Test		SARKAR			59	6+50	6 stacks passed from K3. 50 stacks need re-sorting also from K3.
FINE AGGREGATE							
Field Density Test					379	249	Tests passed: 188 (K3), 27(T2), 34(S2).
IMPORTED MATERIALS							
Gradation Test					4	4	Tests passed: 2(S2), 1(N1), 1(P1).
Lab. Compaction Test					1	-	Tested from N1.
Field Density Test					355	297	Tests passed: 60 (K3), 16 (N1), 17(P1), 14(S2), 190 (T2).

8. CONSTRUCTION SURVEILLANCE

8.1 General

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

Site-specific performance in June was as follows:

8.2 Zone I (Camilla)

C2 Mymensingh

During June approximately 6 cy of concrete was poured in the remaining eight interior columns bringing that work to 100% complete. About 232 cy of concrete was poured in roof beams and slab or 52.3% complete against 50% scheduled. So far about 4,726 sf of godown brick wall were constructed by the end of June bringing that work to 92.3% complete against 100% scheduled. The progress on electrical work was 16% complete against 20% scheduled.

So far about 12,120 sf of concrete road pavement has been completed through June to bring that work to 73.4% complete, ahead of the planned 20%. About 80% of boundary wall was complete by the end of the month against the 100% scheduled.

During June 15.1% progress was achieved against 12.4% planned. The overall progress of sitework at the end of June stands at 69.1% against the 63.6% planned in the KDC bar chart schedule. This site is scheduled for completion by the end of October 1983.

D1 Madhupur

During June the remaining columns and shear walls were completed, matching the schedule. Approximately 589 cy of concrete was poured in roof beams and slab to bring that work to 81.3% complete against 50% scheduled. Electrical work was 23% complete against 30% scheduled at the end of the month. Approximately 6,380 sf of godown brick wall was constructed during June to bring that work to 73.8% complete, which is far ahead of schedule.

All brick work for the A1, B1, C1 buildings and public toilet were completed to lintel level during the month to bring the percent complete to 11.3% against 8% scheduled.

During June approximately 11.0% progress was achieved against 8.7% planned. The overall progress of site work at the end of June stands at 39.1% complete against the 37.0% planned in the KDC bar chart schedule. This site is scheduled for completion at the end of January 1984.

C4 Malendah Bazar

By the end of June about 50.3% of the columns and shear walls were completed against 100% scheduled. In addition, placing of sand fill inside the godown was still in progress, and about 90% complete against 40% scheduled. About 63.8% of godown brick walls were constructed against 20% scheduled. At the end of the month brickwork was completed on all railside platforms.

920 lf of boundary wall was completed up to the end of June or 51.1% against 50% scheduled. Approximately 17.3% of the concrete road was paved, far ahead of the schedule.

On ancillary buildings, the B1 building was completed to roof slab while brickwork on the A1 building was completed to four feet above the plinth level. The C1 building and public toilet were also completed to lintel level. Overall, the ancillary buildings were 14.1% complete against 9.0% scheduled.

During June approximately 0.1% progress was achieved against 4.6% planned. Overall progress of the sitework at the end of June stands at 43.3% complete against the 39.4% planned in the KDC bar chart schedule. This site is scheduled for completion by end of January 1984.

B2 Netrakona

During June about 23 cy of concrete was poured in columns and shear walls or 20% complete against 40% scheduled. At the end of the month about 1,950 sf of concrete road pavement was constructed or 5% complete and ahead of the schedule. So far about 1,315 lf of boundary wall is completed to four feet high, bringing that work to 23% complete against 20% scheduled.

By the end of June, all river steps and brick gabion works at the river loading area were completed.

Progress on the ancillary buildings was negligible. By the end of the month only the brick foundation work was started on the B1 building. The Subcontractor was idle on this work most of the time and KDC has been advised to accelerate the progress to meet the ancillaries schedule, now 9% behind.

During June only approximately 2.1% progress was achieved against 5.5% planned. The overall progress of the sitework at the end of June stands at 33.5% complete against the 35.7% planned in the KDC bar chart schedule. This site is scheduled to be completed by the end of January 1984.

I1 Comilla

Godown: A total of 43,340 sf of temporary brick soling was accomplished during the month to complete all of that work 100%. Plastering of the remaining 838 sf was completed during the month. The remaining two wall foundations and 10" brick work amounting to 2.33 cy and 304 sf respectively was also completed during the month. The neat cement finishing work was 100% complete. Four godown doors were mounted during the month to complete the total of 16 doors. Louvres and vents were painted; however, the doors remain to be painted. On the tally clerks room, brick work, roof slab and plastering was also complete. Electrical wiring was ongoing and a total of 35 godown ceiling lights were installed.

Site Preparation: On site preparation works only about 6,000 sf of grass sodding was placed.

Ancillary Buildings: The plastering of the ancillary buildings was 100% complete during the month with some 11,000 sf. of plaster work accomplished. Built-up bituminous roofing for all ancillaries, amounting to some 4,300 sf, was completed. A total of 280 sf of steel grills have been installed on the A1 and B1 buildings. Sanitary and plumbing work was 65% complete and the 4" diameter water supply well sunk. Electrical items for the ancillary buildings were approximately 40% complete.

The overall progress for the site is 93.0% or 3% behind the target of 96.0%. Works not taken up yet include: flooring of ancillary buildings; white color wash; and the installation of plumbing and sanitary fixtures. The ancillary buildings are only about 85% complete and that work will delay the completion of this site by for at least one month beyond the end-July schedule.

H1 Feni

Godown: During the month all the exterior column footings and wall footings were completed except for one bay of grade beams; this item is 99% complete at the end of June. Of four shear walls three have been completed. Fifteen interior columns were complete up to the roof beam level. In addition fifteen exterior columns were completed to roof beam level while twelve exterior columns were completed to canopy level. At month end, the first 6" sand fill layer for entire floor was completed, and one portion of the second 6" layer was

started. The total quantity of sand fill certified for payment during June was 11,000 cf. In addition the bond beams at the canopy level for six bays were also completed. The formwork for roof slab for two spans of the roof was completed and reinforcement for both beams and slabs was in progress.

Site Preparation: All 923 lf of brick boundary wall was completed with angles on barbed wire by the end of the month. Of 1154 lf of drainage channel only 450 lf of brick work had been completed to date with the achievement of 350 lf in June.

During June 6.5% of work was accomplished against 6.0% planned in the KDC bar schedule. Overall progress of work stands at 31.0% against the target of 39.9%.

I3 Daudkandi

Godown: During June, the godown interior and exterior plastering was repaired in some places. Two coats of white wash were applied. The electrical wiring inside the godown was completed and light fixtures were installed.

Site Preparation: At the end of the month the pump house was constructed and the pump and all piping work for water supply system installed. A 100 foot pontoon was delivered to site and was in the final stages of field fitting.

Ancillary Buildings: At month end, two coats of whitewash had been completed on the ancillary buildings. Electrical wiring, plumbing, sanitary lines, fixing of window grills and the installation of doors and windows were 95% complete.

The important remaining work required to be done include: final grading of the common fill area; repairing of the parking area where some portions have settled; and the installation of the electrical pole line and cables, and hookup to PDB service transformer.

The overall status of sitework at the end of June stands at 95% complete against 96% scheduled. It is expected that the site can be completed at the latest by August 1983, provided that the work on the ancillary buildings is expedited. Only 90% of that work was complete at the end of June 1983.

Q1 Bhola

Godown: During June 175 pile caps were poured and form construction and placing of reinforcement for the grade beams was in progress. At the end of the month 8.8 cy of concrete was placed in 15 interior columns, for only 3.3% accomplished against the 60% scheduled.

Site Preparation: In June, an additional 50,000 cf of engineered fill was placed and compacted in ancillary building and boundary wall areas to bring that work to 90% complete against 100% scheduled. Brick foundation for 150 lf of boundary wall was constructed, for 7.5% complete against 50% scheduled.

Ancillary Buildings: Brickwork for A1 and B1 buildings was completed to plinth level, while brickwork for C1 building and public toilet was completed to lintel level. Overall progress of ancillary buildings at the end of the month stands at 10% complete, ahead of the 2% scheduled.

Arrangements for acquisition of the additional land required have been made by BADC, including depositing the money. However, the Land Acquisition Department has not taken any affirmative action to pay the owners and transfer the property.

During June approximately 3.3% progress was achieved against 5.7% planned, and the overall status of sitework at the end of June stands at 29.3% against the 32.6% schedule. The pace of work continues to lag the schedule, and must be accelerated promptly if the January 1984 completion date is to be met.

Q4 Barisal

Godown: An additional 78 cy of concrete was placed in the remaining 56 pile caps and grade beams to bring that work to 66.7% complete against 100% scheduled. About 10 cy of concrete was poured in 15 interior columns for 8% completion against 40% scheduled.

Site Preparation: An additional 90,000 cf of engineered fill was placed in parking and entrance road areas to bring that work to 90% complete against 100% planned. At the end of the month the boundary wall was 40% complete against the 20% scheduled. Some 2,400 sf. of brick gabion was constructed for the marine loading facility, to bring this to 31.7% complete, far ahead of schedule.

Ancillary Buildings: Brickwork for A1 and B1 buildings was completed to lintel level while brickwork for C1 building and public toilet was completed to plinth level. The overall status of ancillary buildings was 9.9% complete against 9% scheduled.

During June 7.6% progress was achieved against 4.2% planned. The overall status of site construction at the end of June stands at 32.0% against the 28.7% planned in the KDC bar chart schedule.

8.3 Zone II (Bogra)

M1 Santahar

West Godown (10,000 Tons): All electrical works except power poles and grounding system have been completed. The installation of window glass and downspouts for the canopies was completed and painting of godown doors started.

East 1 Godown (6,000 Tons): Whitewashing, installation of window glass and canopy downspouts were all completed during June. The electrical grounding system remains to be installed. Painting of the godown doors remains to be done on this godown which is otherwise complete.

East 2 Godown (6,000 Tons): Whitewashing, installation of doors, and all electrical works, except for the grounding system, were completed by the end of June. The installation of window glass and the canopy downspouts was in progress during the month.

Ancillary Buildings:

Type "C" Building: The exterior whitewashing and installation of the water and sewer lines were all completed during the month. Electrical wiring and the installation of electrical fixtures were in progress.

B1 Building: All the door and window frames in the building have now been installed. The exterior sewer and water lines have been completed and the installation of the interior lines is in progress. By the end of June one coat of whitewash had been applied on the exterior of the building.

A1 Building: Built-up bituminous roofing was completed, as was construction of the water tank supports; and the four water tanks were installed. Sewer and water supply lines were being installed, as were the door and window frames.

Site Preparation: Offsite railway siding fill was completed during the month and placing grass sodding on slopes was in progress. Boundary wall construction continued and is now 97% complete. Two rail siding entrance gates were installed. A third rail siding gate, 24' wide, remains to be fabricated and installed. All brick aprons were completed during the period, as was the rail siding drainage channel.

Overall completion of this site at the end of June stands at 92.4% based on the estimated final projected site cost, against a schedule of 97.0%. Santahar was scheduled for completion at the end of July; however, as the ancillary buildings are only about 60% completed at the end of June, it is certain that work cannot be completed in July and problematical whether the site can be 100% finished by the end of August. A concentrated effort to complete all work as soon as possible is called for, and check lists of work items are in preparation by IECO, to assist KDC in finishing up.

As a separate effort, it is anticipated that Bangladesh Railway construction crews will be on site during the August-October period, to install the broad-and-meter gauge rail sidings on the completed embankment. Some coordination with KDC's finish-up work may be involved, principally fine-grading the siding embankment surface to receive the sleepers; but for the most part BR's construction operations will be independent of KDC's already completed sitework.

M3 Bogra

The Contractor has been furnished a completion list showing the outstanding finishing and repair works that remain to be accomplished at this site. KDC is accomplishing these final tasks; however, the progress is very slow and foundation before end of August is unlikely.

Site Development: The repair of the parking area brick surface was completed, and repair to railroad and approach road fill slopes was in progress. Need for a longitudinal brick drain along and adjacent to the rail siding, to control erosion and drain the tracks, is evident. Arrangements for this construction, to be carried out in July, are being made.

Godown: Minor finishing and repair works have not yet been completed. Also, a final coat of whitewash remains to be applied on exterior walls.

Ancillary Buildings: All the doors and window frames have been installed, and shutters were approximately 90% complete by the end of June. Pressure testing of the water supply system was performed and completed successfully during the month. All electrical fittings in the buildings have now been installed. The final coat of whitewash was applied on the A1 building.

The site electrical pole line installation is pending, awaiting PDB advice as to the location of the off-site service point.

Overall progress of work for the Bogra site was 94.8% against the 100% planned. Commissioning of this site awaits completion of the ancillary buildings, now only about 78% finished, and other sitework identified above. It is now estimated that Bogra site can be completed by the end of August.

Rail siding construction by BR crews will be a separate effort, which is to be scheduled and accomplished in August-October.

02 Shibganj

A punch list was prepared by IECO and provided to KDC itemizing remaining work to be done. However, in June KDC failed to mobilize a team to attend to the work, and a KDC site superintendent was not

available at site to expedite the subcontractor's work. Work in June included whitewashing of godown, fixing window panes; and constructing flooring and skirting, and installing doors, and window frames and grills in the ancillary buildings. All door and window frames have been installed in the C1 building, and 50% of the doors and window frames installed in A1 building. No door and window frames are installed in B1 building and the public toilet, as frames made for these buildings were rejected and no replacement units have yet reached the site.

The tube well for water supply was installed, but the pump installation has not yet been made and the pumphouse is not yet constructed. Sewer and water line have been installed. Toilets and bathroom fittings have not yet been installed.

Overall status of the site stands at 95.0% complete against 100% scheduled. Remaining work will require two months to accomplish, as the ancillaries are only 74.0% complete at the end of June.

The rail siding construction by Bangladesh Railways remains to be scheduled later in 1983, during the August to November period.

03 Panchagar

Site Preparation: Some repair work on fill slopes was carried out during the period, including the shaping of slopes and replacement of sodding.

Godown: The installation of glass on all windows was completed, and some minor plaster crack repair and finishing work was in progress. Except for the electrical grounding system and the final whitewash coat this godown is essentially complete.

Ancillary Buildings: On the A1 and B1 buildings the door and window frame installations were proceeding, but very slowly. Whitewashing was completed on the inside of the buildings. Work on the C1 building included the installation of door and window frames and whitewashing of walls. Work on ancillary buildings is proceeding very slowly and work completed to date is only 65.2%.

Overall work at this site stands at only 87.2% complete against a scheduled 96.0%. Less than 1% of site work was accomplished in June, a very bad performance. A taskwork punch list has been issued to KDC for the remaining works and remedial tasks to be completed. The lack of performance in June makes it difficult to predict when Panchagar sitework will be completed. Rather than finish in July as scheduled, it will probably require an additional two months, of much better effort, to complete in September.

Bangladesh Railways construction operations for the rail siding are to be scheduled, during the September-November period.

01 Dinajpur

Site Preparation: Nothing was accomplished during the month except for concreting the entrance gate columns.

Godown: On the godown the concrete work for the internal and external columns and shear walls was 100% complete. In addition, the pouring of concrete in tie beams at elevation + 10.00 was also taken up and completed on 20 bays out of required 36 bays. Brick work on godown walls was started and completed upto elevation 10.00 on 31 bays. The percent complete for tie beam and brick work items stood at 11.1% and 39.2% respectively. The support and formwork for the concrete roof slab was in progress. The placement and completion of coarse fill under the godown floor slab continued throughout the month and by the end of the month 102,800 cf of material was compacted or about 84.7% of total requirement. The damp proof course below the brickwork was 100% complete. Approximately 18 tons of reinforcing steel was placed during this period thus totalling 37.6 ton, which is about 27.5% of total requirement.

Ancillary Buildings: The sunshades, lintels and beams on the office building were poured during the month; and first floor slabs of the A1 and B1 type buildings were also poured. In addition, the first and second flight of stairs on the A1 and B1 buildings were installed. Some 5.4% of ancillaries work was accomplished to mid-month. The subcontract was terminated for ancillary buildings with effect from 16 June. The work programme will now be accomplished by KDC with its own crew.

During June 7.6% of sitework was accomplished against 5.5% scheduled. The overall status of completed work stands at 32.1% against the scheduled 30.1%.

K5 Atrai

Site Preparation: The construction of engineered fill in parking area was in progress in June. Bricks, coarse aggregate, reinforcing bars and cement were brought to the site, but no concreting could be started due to lack of coarse sand. The Contractor has informed the Engineer that coarse sand is on its way, and that concreting work will start at the beginning of July.

Detailed drawings of modified river pontoon ramp installation, parking area and brick gabion works were issued to the contractor during the period. The fabrication of the pontoon was in progress and approximately 65% complete at the end of the month.

Godown: Preparation of formwork and reinforcement for interior pile caps was started during the month, as well as excavation for the exterior pile caps. It is expected that as soon as the coarse sand arrives the concreting work will start. All equipment and other necessary materials are at the site.

During June about 11.9% progress was achieved against 8.4% planned, largely due to fabrication of the pontoon. Overall sitework stands at 38.9% complete against a scheduled 35.4%. It is expected that sizable progress can be made in the next two months when concrete works are underway.

L1 Rangpur

Site Preparation: Except for a small quantity of engineered fill for railway siding, all engineered and common fill at this site has been completed. The boundary wall has yet to be started and this work is 20% behind schedule because of a shortage of approved bricks.

Godown: Work during the month consisted of placing concrete for columns, shear walls, footings and wall foundations. In addition, the compaction of sand fill under the floor slab was completed and the concreting of slab panels was started. Bricks have started arriving at the site and masonry work is scheduled to start at the beginning of July. Work on the godown is progressing well and is ahead of schedule.

Ancillary Buildings: Except for laying out the buildings no work was accomplished on the ancillaries during the month. Bricks started arriving on the 24th of June and the contractor expects to start the foundations by the first week of July. Presently, construction of these buildings is 30% behind schedule.

During June 11.9% of sitework was accomplished against 8.9% planned. The overall progress at this site stands at 38.1% against a scheduled 37.6% in the KDC bar schedule. Brick masonry construction must now be prosecuted vigorously to catch and maintain the schedule.

04 Charkai

Site Preparation: Boundary wall construction was not started as had been expected, and this work is two months behind schedule.

Ancillary Buildings: Excavation for footings of the D1 building was started during this period. Construction work on these buildings is 10% behind schedule but the contractor has the opportunity to catch up within the next two months.

Godown: The major work this month consisted of placing concrete for columns, shear walls and tie beams. The placement and compaction of sand fill for floor slab was continued. The forming and placing of reinforcing steel for roof slab was started on three bays during the month. Work on the godown is proceeding satisfactorily, per schedule.

During June approximately 6.6% progress was achieved against 8.1% planned, the shortfall due to lack of work on ancillaries. Overall progress of the site stands at 29.5% complete against 30.1% scheduled on the KDC bar chart schedule.

L7 Mahendranagar

Site Preparation: No activities on site preparation works were accomplished during the period.

Godown: Of 86 exterior columns, 48 were poured up to the required level and 22 were poured to 12'0" height. Of 180 interior columns, 175 were poured complete and 5 to 12'0" height. Of the 24 shear walls, five were poured to roof level and five more to 12'0" height. Tie beams at Elevation + 10.00 were poured in 26 bays out of the required 66. Roof slab concreting was started during the month, the first pour made on 14 June. By the end of the month 20,900 sf of roof slab was completed, about 23.2% of the total. Construction of brick masonry godown walls was started and 34.0% accomplished by the end of June. Spreading and compaction of sand fill under godown floor continued throughout the period and was 61% accomplished. Electrical conduits were being placed during the period in the roof slab.

Ancillary Buildings: Due to lack of supply of quality bricks, the construction of the ancillary buildings and boundary wall was not taken up during the period. The Engineer had special tests on bricks available at Kurigram, and finding them to be of good quality, asked the Contractor to procure them immediately and start the masonry work.

Progress in June was 9.9% against 6.5% planned, and site construction is 35.2% complete against the 30.2% scheduled.

8.4 Zone III (Ishurdi)

K3 Rohanpur

During June, work continued on construction of the approach road to the site, and progress on this road included 27,580 cf of excavation; 9,680 cf of compacted engineered fill; and 6,158 sf of concrete road pavement.

On the godown, the construction of the concrete roof was in progress on the eastern half of the structure, while on the western half all footings and wall foundations were completed. The total concrete poured during the month was 346.35 cy representing 29.50 cy in shear walls, 12.00 cy in tie beams and canopies; 5.68 cy in exterior columns and 211 cy in roof slab on the eastern half of the building; and 33.64 cy in footings, 52.40 cy in wall foundations and 2.13 cy in exterior columns up to plinth level on the western half of the building. Approximately 4,670 cf of sand fill was placed and compacted under column and wall footings. In addition, brickwork for truck loading platforms was started and some 291 sf completed. Approximately 240 sf of dampproofing material was placed on the eastern part of the godown. Some 600 lf of electrical conduit was cast in the roof slab.

On the ancillary buildings, brickwork was in progress for A1 building up to the underside of ground floor roof level. On B1 and C1 buildings wall brickwork was built up to the level of the damp proof course.

In general, construction is ahead of schedule for the godown concreting works; but the site earthwork is slightly behind schedule pending finalization of embankment stabilisation design study. This is in progress in IECO's San Francisco office. Results of studies and analyses are available in early July to permit final embankment placement and construction of protective gabion works. The ancillary buildings are behind schedule due to problems related to the quality of bricks delivered to site. The presorting out of poor quality bricks and also the shortage of skilled masons have resulted in the lagging of ancillary building progress.

The estimated progress of work completed during June was 11.1%, matching the scheduled accomplishment. However, overall completion at end of June stood at 35.7% against the 41.2% planned, and there was no gain on the schedule.

K2 Amurn

During June placing and compacting engineered fill continued in the roadway, parking and ancillary building areas and approximately 14,600 cf of fill material installed. The remaining 1,420 sf of concrete roadway pavement was completed during the month. In addition,

6500 sf of brick parking area was completed. Approximately 200 lf of boundary wall was constructed and another 580 lf of barbed wire fencing installed. Construction of concrete walkway pavements was started and 513 sf completed. Grass sodding for embankment slope protection was in progress, and approximately 5,500 sf of sodding placed.

In the godown, half of the interior floor slab from grid lines 8 to 16 was completed, with approximately 415 cy of concrete poured. Work on the other half of the floor slab is presently held up due to shortage of concrete sand at the site. The remaining brickwork (815 sf), plastering work (2,474 sf), and installation of louvres, vents and windows (570 sf) were all completed during the month. Placing of sand fill inside the godown was in progress, and some 5,800 cf of compacted sand fill was placed. Approximately 22,400 sf of plastic vapor barrier material was placed under the floor slab. Painting of the inside of the godown was in progress.

In the A1 building, the first floor slab was poured together with part of the stairs. The bituminous roofing for the penthouse of B1 building, and roofing for the public toilet was completed. The guard house roof slab was poured.

Work accomplished during June was 12.0%, exceeding the 7.4% planned on the new KDC bar schedule. The estimated overall completion of this site at the end of June stood at 76.6%, ahead of the 61.1% scheduled. This site should easily meet the targetted end of November completion date.

N1 Muladuli

Work started on construction of the peripheral local access road bordering the site boundary wall, and some 4,050 cf of stripping was accomplished. Placing of road fill material was in progress; however, no compaction work was carried out due to KDC's lack of proper equipment. Elsewhere, approximately 7560 cf of engineered fill was placed on the approach rail siding area and common fill was placed in the ancillary building areas. In addition, brick apron paving around the ancillary buildings was in progress. Placing of 4,500 sf of grass sodding on embankment slopes of the local access road was completed.

In the godown, the main works completed included the interior electrical wiring systems with all light fittings, switches, distribution and sub-distribution boards installed.

On the ancillary buildings, of the remaining works, plastering, neat cement finishing, built up bituminous roofing and the installation of flooring and skirting were all completed. Window and door frames were being installed and the fixing of wooden windows and steel grills was in progress. Plumbing and sanitary installation were also in progress.

Progress attained on this site during June amounted to 7.2% against 8.0% planned. Overall status of work at end of June was 91.1% against 88.0% planned on the new bar schedule. Remaining work includes installation of site power pole line and hookup to PDB source. The plan for this is under review with BADC/PDB. The power hookup is a priority for this site to be completed on schedule. A detailed list of work remaining to be completed is in preparation by the Engineer to assist KDC to complete sitework by the end of August as scheduled.

T2 Kushtia

During June, approximately 5,800 cf of engineered fill was placed in the parking, aprons, walkways and ancillary building areas. In addition, common fill was placed around the ancillary buildings to bring the fill up to final level. The remaining 5 ft strip of brick work in the parking area, covering 623 sf, was completed. Brick paving for aprons was in progress and another 662 sf paved. Concrete walkways to the ancillary buildings were completed and some 581 sf paved. Another 40 lf of boundary wall was constructed and 150 lf of barbed wire fence completed. Three soakwells were constructed during the month but were not completed to the required water bearing sand stratum depth; consequently, water in soakwells will continue to remain stagnant. KDC's Zonal Superintendent has been instructed to remedy this condition in order to make the soakwells functional for the ancillary buildings.

In the godown, placing of temporary brick flooring was in progress. Initially, the work technique was not acceptable; however, constant supervision by the IECO staff on site has remedied the situation, and 7,200 sf was included for payment during the month. Fixing of glass panes to steel windows was in progress and some 617 sf completed. All twenty-four PVC downspouts were installed during the month. Painting of the godown was started and in progress. In addition the interior electrical wiring for the godown was in progress.

In the A1 building brickwork was completed up to the roof slab, with formwork and placing of slab rebar in progress. The casting of public toilet and guard house roofs were completed. Sand fill was placed in the A1 building, with approximately 1500 cf compacted in place. Plastering of all ancillary buildings was in progress and some 19,000 sf completed. Neat cement finishing work in the toilet, kitchen and bathroom areas was completed. Installation of wooden doors and window frames was in progress.

Work accomplished during June is estimated at 7.7% against 7.0% planned on the new schedule. The overall status of completion is estimated at 79.3%, leading the 76.0% targetted. The site should be completed, as scheduled, by end October 1983.

T1 Chuadanga

Placing of common fill on road shoulders and around the ancillary buildings, to bring the fill up to final level, continued during June, and a total of 49,800 cf of material was placed. In addition, some 7,700 cf of engineered fill was placed for apron construction. Brick paving of aprons around ancillary buildings was completed. In the godown, painting was in progress and approximately 21,300 sf of white wash completed. The concrete topping of one-third of the godown floor awaits completion of similar work at Satkhira site in order to utilize the same concreting crew. Minor work remaining to be done on the godown includes fixing gravel stops on part of the godown roof, caulking steel louvres and fixing of expansion joint seals on the two vertical openings in the building exterior. Interior electrical wiring was completed along with the installation of light fixtures and some switches. Work was in progress on the remaining electrical installations.

In the A1 building, the water tank support structure was completed. Plastering was in progress. In all the ancillary buildings, flooring and skirting was completed by the end of the month. Bituminous roofing was completed on all buildings except for installation of the flashing along the edges of the parapet walls of the A1 and B1 buildings. Neat cement finishing and chimney hood slab modifications were completed. Interior electrical wiring was completed and the installation of light fixtures was in progress. All door and window frames and some 450 sf of steel grills were installed during the month and whitewashing of the ancillary buildings was begun. Plumbing and sanitary installation works continued progress and most of the water lines including inspection pits completed. The four water tanks on the A1 building were installed and installation of pipelines was in progress.

Site preparation was about 96% complete at the end of June while godown work was about 90% completed. Ancillary building construction is estimated at 70% complete with the sanitary and plumbing at 45% complete and electrical installations about 75% complete.

Progress of work during June is estimated at 4.3% against the 6.0% planned in the new schedule. The overall work status at the Chuadanga site was 90.6% complete at the end of June. The site is targetted for completion at the end of July 1983. However, the finishing work remaining will most probably require at least 2 months to accomplish. In order to expedite the completion of this site the Engineer is in the process of preparing a detailed punch list of the finishing works remaining for KDC to accomplish; this list should be ready in early July.

S2 Kaliganj

During June, placing and compacting some 3,500 cf of engineered fill in the ancillary building areas was accomplished. Also, the remaining apron areas around the godown and ancillary buildings were paved and completed covering some 4,700 sf. All walkway areas were completed with some 526 sf of concrete placed. The entrance and pedestrian gate was installed during the month and another 352 lf of boundary wall was completed. Grass sodding to protect embankment slopes was in progress and some 1000 sf of sodding was placed.

In the godown, the remaining concrete grade beam and 101 sf of brick walls were completed. Plastering work was started and some 6,500 sf completed. Twelve godown doors were hung and some 800 sf of steel louvres, vents and windows installed with caulking, while the remaining units were in progress. Built-up bituminous roofing was completed, covering some 29,731 sf. Compaction of the first layer of sand fill inside the godown was in progress by manual compaction methods thus causing delay in the start of temporary brick floor construction. To speed compaction work KDC should bring in mechanical soil compaction equipment. Floor construction should now be completed, per the schedule.

In the A1 building the bituminous roofing for the penthouse was completed. The water tank structure was cast and the four water tanks were placed in position. In the B1 building bituminous roofing was completed except for flashing around the parapet walls and the weep holes. Plumbing work was in progress. In the C1 building and Public Toilet, bituminous roofing was completed during the month. On all the ancillary buildings fixing of window and door frames, grills and plastering work were in progress.

During June, the progress of work was estimated at 10.4% at Kaliganj, against the 10.2% planned. At the end of the month overall completion stood at 71.1% against the new scheduled target of 74.7%, or slightly behind. This site is scheduled to be completed by end of November 1983.

P1 Satkhira

During June, the slope stabilization on the west side of the site near the A1 building and opposite the road pavement was completed. Grass sod slope protection was in progress and approximately 4,600 sf of embankment slopes were covered with sodding.

In the godown, whitewashing of walls was in progress, and some 13,500 sf of wall surfaces completed. All 10' x 10' floor panels (211 Nos.) of 1½" floor topping were chipped off and the surface prepared for new floor topping. The new concreting was started on

19 June under the supervision of IECO's Senior Field Engineer. As reported in May, this work is being performed under comprehensive guidelines issued to KDC by the Engineer. One week's delay in starting of this work was recorded due to breakdown of the concrete mixer at the site; however, the floor should be completed in July. Interior electrical installation in the godown, including the light fixtures, was in progress.

In the ancillary buildings, door and window frames were being installed and the installation of steel grills was in progress. The water supply system installation was almost completed, including the tube well and pump house. Installation of plumbing fittings was in progress. Painting of all ancillary buildings was in progress and some 13,500 sf covered. Interior electrical wiring for ancillary buildings neared the completion stage. Fixing of wooden doors and windows in the C1 building was in progress.

During June only 4.3% progress was achieved against the 6.0% planned. Overall completion is estimated at 92.3%, lagging the 96.0% targetted. The Satkhira site is scheduled for completion at the end of July 1983; however, completion will have to be extended by at least one month. KDC has yet to install the electrical transmission pole line facilities. Also, there remains considerable finishing work on the ancillary buildings, including pressure testing for the water supply system. In order to expedite the completion of this site the Engineer is making a detailed punch list of the finishing work remaining for KDC to accomplish; this list should be ready in early July.

OVERALL PROGRESS SCHEDULE

PROJECT: FERTILIZER WAREHOUSE

LINE NO	SITE LOCATION	% AGE WT.	1983												1984		REMARK	
			UP TO MAR	APR	UP TO MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB				
1	I ₂ BRAHMANBARIA	3.11	P		99.5	100												100
	A	99		100	100													
	I ₃ DAUDKANDI	3.21	P		68.3	77.5	96.0	100										
	A	63.3		86.9	93.0													
	I ₁ COMILLA	5.01	P		80.0	88.0	96.0	100										
	A	71.4		84.5	93.0													
	H ₁ FENI	1.71	P		28.3	33.9	39.9	47.8	60.7	75.3	85.7	94.1	96.4	100				
	A	22.6		34.7	41.0													
	C ₂ MYMENSINGH	1.46	P		43.3	51.2	63.6	78.2	85.1	98.2	100							
	A	38.0		54.9	69.1													
	D ₁ MADHUPUR	1.25	P		22.0	28.3	37.0	48.0	63.6	76.8	85.8	93.0	97.8	100				
	A	20.0		30.5	39.1													
	C ₄ MELANDAH BAZAR	3.15	P		29.0	34.8	39.4	50.5	63.9	70.8	81.8	92.4	96.4	100				
	A	27.2		33.4	43.5													
	B ₂ NETRAKONA	3.70	P		24.2	30.2	35.7	41.5	53.9	67.7	77.7	90.5	97.4	100				
A	19.0		31.0	33.5														
Q ₁ BHOLA	4.32	P		25.1	28.9	32.6	37.4	45.4	58.7	75.5	85.9	98.5	100					
A	23.4		27.5	29.3														
Q ₂ BARISAL	3.46	P		21.0	24.8	28.7	36.5	52.2	67.9	81.9	94.1	98.6	100					
A	16.2		27.5	32.7														
2	M ₁ SANTAHAR	12.71	P		87.5	93.0	97.0	100										
	A	80.7		92.2	92.4													
	M ₃ BOGRA	6.49	P		98.6	99.2	100											
	A	94.5		94.7	94.8													
	O ₃ PANCHAGAR	2.42	P		80.0	98.0	96.0	100										
	A	73.4		86.3	87.2													
	O ₂ SHIBGANJ	4.45	P		90.5	96.0	100											
	A	80.5		87.2	95.0													
	L ₁ RANGPUR	3.47	P		20.0	28.7	37.6	43.5	52.6	62.8	76.3	85.1	95.9	100				
	A	14.7		26.2	38.1													
	L ₇ MAHENDRANAGAR	6.11	P		20.1	27.7	30.2	38.5	51.2	66.5	79.8	89.6	98.8	100				
	A	15.6		25.3	35.2													
	O ₁ DINAJPUR	3.14	P		17.1	24.6	30.1	35.9	42.9	52.8	67.8	85.0	93.5	100				
	A	14.3		24.5	32.7													
	O ₄ CHARKAI	3.83	P		17.1	22.0	30.1	38.9	53.0	65.8	74.5	87.5	97.6	100				
A	13.1		22.9	29.5														
K ₅ ATRAI	3.34	P		22.4	27.0	35.4	42.2	49.8	61.0	74.4	86	96.9	100					
A	13.5		30.7	38.9														
3	N ₁ MULADULI	3.34	P		72.4	80.0	88.0	96.0	100									
	A	66.7		83.6	91.1													
	T ₁ CHUADANGA	4.17	P		83.3	90.0	96.0	100										
	A	75.5		85.9	90.6													
	K ₂ AMNURA	3.48	P		43.0	53.7	61.1	71.4	79.7	87.7	96.8	100						
	A	31.5		57.0	78.6													
	P ₁ SATKHIRA	2.17	P		81.8	90.0	96.0	100										
	A	73.4		87.1	92.3													
	T ₂ KUSHIA	2.52	P		60.6	69.0	76.0	82.0	90.0	97.0	100							
	A	49.5		68.6	79.3													
	S ₂ KALIGANJ	2.86	P		45.2	64.5	74.7	81.9	88.9	92.9	97.6	100						
	A	31.9		56.9	71.1													
	K ₃ ROHANPUR	3.40	P		19.0	30.1	41.2	51.7	61.2	71.8	81.9	92.4	97.4	100				
	A	15.5		21.7	35.7													
	TOTAL		100.00	P														
PROGRESS PLAN			A															SUBMIT
PROGRESS ACTUAL					54.6	60.8	77.2	72.9	78.7	84.7	90.5	95.4	98.8	100				REVISE

ORIGINAL - - -
 REVISED - - -
 ACTUAL - - -

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	126,785.63	1,465,160.42	95.14
Brahmanbaria	1,492,000.00	1,783.30	1,492,011.09	100.00
Comilla	2,402,000.00	84,717.34	2,115,489.79	88.07
Mymensingh	710,000.00	104,807.97	494,286.52	69.62
Feni	820,000.00	57,890.18	304,343.45	37.12
Madhupur	1,415,000.00	167,601.90	599,546.88	42.37
Melandah	1,608,000.00	121,937.18	658,522.99	40.95
Netrakona	1,772,000.00	86,164.87	634,727.10	35.82
Barisal	1,660,000.00	125,844.31	582,516.21	35.09
Bhola	2,070,000.00	82,581.64	652,631.16	31.53
<u>ZONE - II</u>				
Santahar	6,095,000.00	156,834.03	5,780,640.80	94.84
Bogra	3,111,000.00	41,170.85	2,949,272.95	94.80
Panchagar	1,160,000.00	13,932.00	1,014,892.79	87.49
Shibganj	2,132,000.00	111,039.02	1,969,416.28	92.37
Fangpur	1,664,000.00	220,085.36	656,114.11	39.43
Mahendranagar	2,930,000.00	301,712.88	1,043,234.01	35.60
Charkai	1,835,000.00	131,048.02	552,258.34	30.09
Dinajpur	1,504,000.00	114,030.30	481,979.54	32.05
Atrai	1,600,000.00	87,692.62	578,948.85	36.18
<u>ZONE - III</u>				
Muladuli	1,600,000.00	36,208.26	1,364,682.85	85.29
Chuadanga	2,000,000.00	66,989.03	1,784,145.24	89.21
Amnura	1,670,000.00	124,133.45	1,185,812.62	71.01
Satkhira	1,038,000.00	39,143.63	943,197.57	90.87
Kushtia	1,207,000.00	54,060.26	882,579.19	73.12
Kaliganj	1,274,000.00	100,168.60	824,916.27	64.75
Rohanpur	1,630,000.00	149,107.85	502,507.67	30.83
TOTAL				
(All Sites)	47,939,000.00	2,707,770.48	31,513,835.59	65.74
MATERIALS (NET)		(81,094.61)	175,960.05	
ALL SITES	47,939,000.00	2,626,675.87	31,689,795.64	66.10
RETENTION	1,000,000.00		1,000,000.00	

* Preliminary data.

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
01-001	23 Oct. 81	Dinaipur - 3000 ton godown eliminated	\$ (561,600.17)	\$ 49,438,399.83
002	26 Jan. 82	Cost reduction	Rejected	\$ 49,438,399.83
11-003	25 May 82	Comilla-Change culvert	\$ (2,510.48)	\$ 49,435,889.35
13-004	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	\$ 46,258.00	\$ 49,527,463.55
C2-007*	22 Feb. 83	Mymensingh - Concrete piles Deleted sand piles and floor (A27 and B11) Net	\$ 138,426.70 \$ (203,185.16) \$ (64,758.46)	\$ 49,462,705.09
I3-008	22 Feb. 83	Daudkandi - Marine landing	\$ (13,499.00)	\$ 49,449,206.04
C4-009*	22 Feb. 83	Melandah - Concrete piles Deleted sand piles and floor (A27 and B11) Net	\$ 143,144.91 \$ (422,950.88) \$ (279,805.97)	\$ 49,169,400.12
B2-010*	02 Feb. 83	Netrakona - Concrete piles Deleted sand piles and floor (A27 and B11) Net	\$ 153,692.38 \$ (377,553.60) \$ (223,861.22)	\$ 48,945,538.90
I2-011*	21 April 83	Brahmanbaria revised water system Delete - D21,22 & 23 Net	\$ 10,666.91 \$ (19,152.00) \$ (8,485.09)	\$ 48,937,053.81

-31-

* Not yet signed and approved.

CONSTRUCTION CONTRACT CHANGE ORDER STATUS (Continued)

<u>Change Order Number</u>	<u>Date</u>	<u>Description</u>	<u>Change</u>	<u>Contract Amount</u>
11-012*	28 April 83	Comilla revised water system Delete D21, 22 & 23 Net	\$ 16,307.03 (19,152.00) (2,844.97)	\$ 48,934,208.84
13-013*	28 April 83	Daudkandi revised water system Delete D21, 22 & 23 Net	\$ 12,695.78 (19,152.00) (6,456.22)	\$ 48,927,752.62
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	Bopra 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

* Not yet signed and approved.

INTERNATIONAL ENGINEERING COMPANY, INC.

FORCE REPORT

30 JUNE, 1983

A. Dhaka Office

1. K.F. Ahmed	Chief Accountant
2. A.H.M.R. Salam	Accountant
3. A.K. Chowdhury	Expeditior
4. Niranjan Paul	Expeditior
5. N.G. Khan	Area Office Manager
6. Khurshid Ahsan	Admin. Assistant
7. Mizanur Rahman Sikder	Admin. Assistant
8. Md. Enayetullah	Secretary
9. Najma Anwar	Secretary
10. Bernard Fernandez	Secretary
11. Robert O'Brien	Mechanic
12. Danzil Gonsalves	Printer
13. Idris M. Khan	Driver
14. Md. Arifullah Khan	Guard
15. Nuruzzaman Sarkar	Janitor

B. Zone I (Mymensingh)

1. M. Kabir **	Area Office Manager
----------------	---------------------

C. Zone II (Bogra)

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

C. Zone III (Ishurdi)

1. Benjamin Gomes	Messenger/Typist
2. Md. Moazzam Hossain	Driver

** Stationed at Dhaka

DEVELOPMENT CONSULTANCY SERVICES LTD.

FORCE REPORT

30 JUNE, 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. A.K.M. Manjur Hossain	Cost Engineer
6. Sk. Rezaul Haque	Materials Engineer
7. Parimal Bikash Sutradha	Engineer
8. Q. Ahmed Najee	Land Procurement Officer (at BADC)
9. Moazzam Hossain Sarkar	Land Procurement Officer (at BADC)
10. N.C. Lewis	Inspector (Pile Casting Yard)
11. Abdur Rashid Khan	Inspector (Survey)
12. Rafiqul Islam	Inspector (Electrical)
13. Sk. Zameul Haque	Mat. Lab. Technician
14. Abdul Wahed	Mat. Lab. Technician
15. Rebeke Sultana	Mat. Lab. Technician
16. Akshay Kumar Roy	Draftsman
17. Rafia Akhter	Draftsman
18. Rezaul Karim	Accounts Assistant
19. Artab Alam	Typist (at BADC)
20. Mojibur Rahman	Mat. Lab. Assistant
21. Abdur Rashid	Mat. Lab. Assistant
22. A. Motalab	Instrumentman
23. Md. Nizamuddin	Chainman
24. Abul Bashar	Rodman
25. Badruddin	Driver
26. Rahmatullah	Driver
27. Matiur Rahman*	Driver
28. Mohammad Abrar	Driver
29. Abdus Sattar	Driver
30. Sultan Ahmed	Driver
31. Delwar Hossain	Driver (at BADC)
32. Faiz Chowdhury	Messenger
33. Ulfat Ali	Messenger
34. Jahanara Begum	Messenger/Receptionist
35. Aminuddin	Guard
36. Mukshed Ali Chowdhury	Guard
37. Shahabuddin Khan	Guard (at BADC)

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

1. Amalendu Debnath	Senior Field Engineer
2. Idris Majumdar	Field Engineer (Daudkandi)
3. S.M. Khalilur Rahman	Field Engineer (Feni)
4. Akhtaruzzaman	Inspector (Comilla)
5. Asmal Khan	Inspector (Daudkandi)
6. Abdus Sattar	Inspector (Feni)
7. Abul Kalam Azad	Mat. Lab. Tech. (Comilla)
8. Nurul Momen Khan	Mat. Lab. Asst. (Comilla)
9. S.W.A. Prodhan	Office Asst.
10. Abdul Malek Fakir	Driver
11. Md. Haider	Driver

Sub-Zone I-B (Mymensingh)

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

Sub-Zone I-C (Barisal)

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

C. Zone II (Bogra)

1. Rafiqus Salehin	Senior Field Engineer
2. Mahbubur Rahman	Field Engineer (Zone Lab. In-charge)
3. Nuruzzaman Khan	Field Engineer (Santahar)
4. Habibur Rahman Khan	Field Engineer (Bogra)
5. Abdul Halim	Field Engineer (Panchagar)
6. Noor Azam Khan	Field Engineer (Shibganj)
7. Kh. Anwar Hossain	Field Engineer (Dinaipur)
8. Abdur Razzaque	Field Engineer (Rangpur)
9. Sagar Krishna Chakraborty	Field Engineer (Mahendranagar)
10. M.M. Nasirabadi	Field Engineer (Atrai)
11. Md. Saimum Haque	Field Engineer (Charkai)
12. Md. Abdul Bari	Inspector (Santahar)
13. Anil Chandra Sarker	Inspector (Santahar)
14. Khaiz Ahmed	Inspector (Panchagar)
15. Susil Chandra Howladar	Inspector (Shibganj)
16. Md. Sekandar Ali	Inspector (Dinaipur)
17. Sheikh Md. Farooq	Inspector (Mahendranagar)
18. Mofazzal Hossain	Inspector (Rangpur)
19. Ratindranath Sarker	Inspector (Atrai)
20. Ejabuddin Patwary	Inspector (Charkai)
21. Shahjahan Sarker	Mat. Lab. Tech. (Rangpur)
22. Shamsur Rahman	Mat. Lab. Tech. (Atrai)
23. Sabbir Hossain	Mat. Lab. Tech. (Dinaipur)
24. Abdur Rashid	Mat. Lab. Tech. (Mahendranagar)
25. Golam Mohammad	Mat. Lab. Tech. (Charkai)
26. Raisuddin	Mat. Lab. Asst. (Atrai)
27. Md. Abdul Nader	Mat. Lab. Asst. (Rangpur)
28. Abu Taher	Mat. Lab. Asst. (Rangpur)
29. Ataur Rahman	Mat. Lab. Asst. (Mahendranagar)
30. Syed Mohiuddin	Mat. Lab. Asst. (Charkai)
31. Kamrul Hassan Khan	Mat. Lab. Asst. (Dinaipur)
32. Javed Ahsan Mustafa Kamal	Office Assistant (Rangpur Office)
33. Golam Ahmed Dastagir	Driver (Rangpur)
34. Dulal Chandra Mohanta	Driver
35. Subodh Chandra Das	Driver
36. Md. Belal	Messenger
37. Ali Ahmed	Guard (Bogra Office)
38. Abdul Gani	Guard (Rangpur Office)

D. Zone III (Ishurdi)

1. Md. Rosaul Karim	Senior Field Engineer (Sub-Zone III-A)
2. Mohi-uz-Zaman Quazi	Senior Field Engineer (Sub-Zone III-B)
3. Tajul Islam Chowdhury	Area Office Manager (Acting)
4. Saiful Islam	Field Engineer (Muladuli)
5. Md. Mozaharul Islam	Field Engineer (Kushtia)
6. A.H. Nazrul Islam	Field Engineer (Chuadanga)
7. Bhabesh Ch. Roy	Field Engineer (Kaliganj)
8. S. Rubayet Islam	Field Engineer (Satkhira)
9. Sujit Kumar Das	Field Engineer (Amnura)
10. Mostahar Ali	Field Engineer (Rohanpur)
11. Manwar Hossain Chowdhury	Inspector (Kushtia)
12. Meer Mozammel Hossain	Inspector (Muladuli)
13. Sirajul Islam Khan	Inspector (Chuadanga)
14. S.A. Asghar	Inspector (Kaliganj)
15. Md. Badiuzzaman	Inspector (Satkhira)
16. Munshi Mojnur Rahman	Inspector (Amnura)
17. Baslur Rahman	Inspector (Rohanpur)
18. Humayun Kabir Khan	Mat. Lab. Tech. (Zonal Lab.)
19. Rafatullah	Mat. Lab. Tech. (Kaliganj)
20. Talukder Obaidur Rahman	Mat. Lab. Tech. (Amnura/Muladuli)
21. Md. Nuruzzaman	Mat. Lab. Tech. (Rohanpur)
22. Dilip Kumar Dey	Mat. Lab. Asst. (Muladuli)
23. Zahirul Islam Khan	Mat. Lab. Asst. (Ishurdi)
24. Md. Shahjahan Talukder	Mat. Lab. Asst. (Kushtia)
25. Suchit Kumar Das	Mat. Lab. Asst. (Chuadanga/Kaliganj)
26. Shamsul Islam	Mat. Lab. Asst. (Amnura/Muladuli)
27. Anil Kumar Chowhan	Mat. Lab. Asst. (Rohanpur)
28. Shafiqur Rahman	Driver
29. Md. Kamal	Driver
30. Ali Hossain	Driver (Sub-Zone III-B)
31. Md. Mohamul Haque	Guard (Ishurdi)
32. Mosharrat Hossain*	Guard (Jessore)
33. Md. Zahiruddin	Camp Assistant
34. Tofayel Hossain Gazi	Messenger

* Resigned/was terminated in June 1983.

USAID IMPROVEMENT GRANT
IECO CONTRACT 9074

CONSULTANCY EXPENDITURE BUDGET

APPENDIX III
Sheet 1 of 4

<u>Schedule I</u>	<u>Budget</u>	<u>JOB TO DATE</u>		<u>MAY, 1983</u>		<u>Balance</u>
		<u>Dollars</u>	<u>Taka As Dollars</u>	<u>Dollars</u>	<u>Taka As Dollars</u>	
<u>Resident Consultant</u> <u>Related Cost</u>						
A. Salary	1,029,900	809,886.67	-	27,550.60	-	220,013.33
B. Payroll						
C. Overhead	1,071,100	842,282.15	-	28,652.63	-	228,817.85
D. Air Travel	60,000	54,570.59	606.18	(25.48)	-	4,823.23
E. Freight Cost	51,000	31,000.00	-	-	-	20,000.00
F. Excess Baggage	9,966	1,939.53	-	-	-	8,026.47
G. Processing Cost	3,450	2,923.92	314.71	-	-	211.37
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	-	141,162.68	-	321.29	29,997.32
K. Furniture & Equipment	77,000	28,464.59	37,817.77	-	-	10,717.64
L. Education Allowance	15,000	4,425.00	17,598.97	-	-	(7,023.97)
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	11,559.52	2,376.51	-	-	(436.03)
P. In-country Travel Per Diem	18,538	-	7,460.18	-	407.18	11,077.82
	\$ <u>2,651,159</u>	<u>1,818,341.07</u>	<u>208,066.16</u>	<u>56,177.75</u>	<u>728.47</u>	<u>624,751.77</u>
Say	\$ <u>2,651,000</u>					<u>624,592.77</u>

36

USAID IMPROVEMENT GRANT
IECO CONTRACT 9074

APPENDIX III
 Sheet 2 of 4

CONSULTANCY EXPENDITURE BUDGET

<u>Schedule II</u>	<u>Budget</u>	<u>JOB TO DATE</u>		<u>MAY, 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	14,640	13,411.10	-	-	-	1,228.90
C. Overhead Cost						
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>59,367.26</u>				<u>968.74</u>
Say	<u>\$ 61,000</u>					<u>1,132.74</u>

29

USAID IMPROVEMENT GRANT
IECO CONTRACT 9074

CONSULTANCY EXPENDITURE BUDGET

APPENDIX III
Sheet 3 of 4

Schedule III	Budget	JOB TO DATE		MAY, 1983		Balance
		Dollars	Taka As Dollars	Dollars	Taka As Dollars	
<u>A. Office Rental, Equipment and Maintenance</u>						
1. Dhaka Office	52,860	-	52,214.13	-	576.43	645.87
2. Area Office Including Lab.	25,450	-	21,674.37	-	789.74	3,775.63
3. Furniture & Equipment	55,800	15,331.32	52,239.07	-	328.65	(11,770.39)
4. Office Supplies & Stationery	40,125	12,380.44	26,389.46	-	412.82	1,355.10
5. Reproduction Cost	54,900	383.88	51,008.30	-	1,128.57	3,507.82
6. Communication Cost	13,050	60.00	10,090.90	-	251.03	2,899.10
<u>B. Vehicle Operation & Maint.</u>						
1. Vehicle Rental	11,250	-	12,049.13	-	-	(799.13)
2. Vehicle Operation & Maintenance	255,050	-	214,868.89	-	4,284.45	40,181.11
<u>C. Direct Hire Local Admin. Personnel</u>	130,900	-	124,914.63	-	3,701.28	5,985.37
<u>D. Soil Testing Charges</u>	33,000	-	29,596.90	-	44.71	3,403.10
<u>E. Subcontract DCS (Table 6B)</u>	993,450	-	711,309.37	-	32,534.81	282,140.63
<u>F. Local Travel</u>	23,500	-	16,251.16	-	1,237.80	7,248.84
<u>G. Misc. Field & Office Expenses</u>	18,000	25.00	13,791.91	-	302.76	4,183.09
	\$ 1,707,335	28,180.64	1,236,398.22	-	45,593.05	342,756.14
Say \$	<u>1,707,000</u>					<u>342,421.14</u>

CONSULTANCY EXPENDITURE BUDGET

Schedule IV	Budget	JOB TO DATE		MAY, 1983		Balance
		Dollars	Taka As Dollars	Dollars	Taka As Dollars	
<u>IECO Headquarter Related Cost</u>						
A. Salaries	93,300	93,650.79	-	224.31	-	(1,350.79)
B. Payroll Cost						
C. Overhead Cost	113,830	114,012.52	-	273.66	-	(182.52)
D. Officers' & Managers' Visits	18,600	20,585.30	-	-	-	(1,985.30)
E. Computer Cost	7,000	11,852.00	-	-	-	(4,852.00)
F. Communication Cost	19,500	11,879.98	-	439.11	-	7,620.02
G. Reproduction Cost	10,000	3,284.25	-	138.88	-	6,715.75
H. Bond Cost & Commission	5,000	2,684.08	-	-	-	2,315.92
	<u>\$ 267,230</u>	<u>257,948.92</u>	-	<u>1,075.96</u>	-	<u>9,281.08</u>
	<u>267,000</u>					<u>9,051.08</u>
<u>Schedule V</u>						
A. <u>Equipment Purchased for Project</u>						
1. Transportation Equipment	156,700	75,520.00	14,995.56	-	-	66,184.44
2. Survey Equipment	19,000	19,036.63	871.00	-	-	(1,907.63)
3. Soil Lab. Equipment	21,700	10,242.89	8,181.64	-	-	3,275.47
4. Materials Lab.	26,000	21,730.30	12,955.95	-	-	(8,686.25)
5. Minor Equipment, Tools and Spare Parts	29,000	22,568.81	210.23	9.85	-	6,220.96
B. <u>Shipping, Insurance and Clearance Costs</u>	<u>77,600</u>	<u>59,547.54</u>	<u>7,539.00</u>	<u>403.06</u>	<u>2.91</u>	<u>10,513.46</u>
	<u>330,000</u>	<u>208,646.17</u>	<u>44,753.38</u>	<u>412.91</u>	<u>2.91</u>	<u>76,600.45</u>
<u>Schedule VI</u>						
Fixed Fee	501,000	435,600.02	-	7,266.67	-	65,399.98
	<u>\$ 5,517,000</u>	<u>2,808,584.08</u>	<u>1,589,217.76</u>	<u>64,933.29</u>	<u>46,324.43</u>	<u>1,119,198.16</u>

Total Expenditure to Date = 4,397,801.84
 Percent of Budget Spent to Date = 79.87.71%
 Contract Time Elapsed = 84.90%

41