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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. 46

JULY 1983

CONSULTING
ENGINEERS

INTERNATIONAL ENGINEERING COMPANY, INC.

A MORRISON-KNUDSEN COMPANY

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MONTH OF JULY, 1983
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CONTRACT 9074
7 August 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. 46
FOR THE PERIOD JULY 1-31, 1983

1. GENERAL

Construction at nine sites is virtually complete, but the contractor must still accomplish various finishing works at all of them before certificates of completion can be issued. Construction progress at the sixteen sites due to be finished later this year or beyond end-January 1984 generally matches the overall schedule. Work accomplished in July bettered schedule at seven sites, lagged schedule at seven, and matched schedule at the other two 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 July 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 63.5% against 64.6% scheduled. The shortfall is mainly due to incomplete remaining minor works at Daudkandi and Comilla. The only real problem situation is at Bhola, where the contractor has failed to make scheduled progress for the past two months. Bhola site work is now 5.4% behind schedule. This is going to be most difficult to make up, and a special effort at concentrating Bhola activities and expediting performance is required to make up ground on this schedule. The progress at Netrakona, lagging in June, improved in July and the site is now only marginally behind. Madhupur progress failed to match the schedule in July, but there is opportunity to regain the schedule with important concreting work in August.

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 72.5% complete against 73.8% scheduled. The shortfall in attainment is exclusively due to the contractor's continuing failure to accomplish the remaining finishing works at Shibganj, Panchagar, Santahar and Bogra. The contractor has not effectively organized the necessary crews to attend to minor finishing details, and this unsatisfactory situation requires correction. At the five Zone-II sites where construction is less advanced, progress is satisfactory and the work is on or ahead of schedule.

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 82.6% complete against 83.1% scheduled. Three sites are nearing completion: Satkhira, Chuadanga and Muladuli. At three sites the work progress and stage of completion is satisfactory. At the seventh site, Rohanpur, the work continues to lag the schedule and is now about three weeks behind. It is judged however that this can be made up within the next several months. Some embankment and protection work at Rohanpur will be rescheduled for the dry season.

Overall, the Phase II construction program is 71.8% complete against the 72.9% scheduled in the new bar charts. Progress in July was 5.3%, lagging the 5.7% planned because KDC did not reach 100% completion on the six sites scheduled for completion in July.

DCS field staff was reduced by 2 to 141 personnel at the end of July. IECO local staff was reduced by 1 to 19 personnel. IECO and DCS force reports are appended.

2. CONTRACT ADMINISTRATION

Change Orders

- Change Orders at BADC for approval:

C2-007 Mymensingh Piles
C4-009 Melandah Piles
B2-010 Netrakona Piles
M1-021 Santahar 24' Rail Gate

Revised Water Supply System C.O.'s:

I2-011 Bratmanbaria
I1-012 Comilla
I3-013 Daudkandi
O3-014 Panchagar
M1-015 Santahar
O2-016 Shibganj
M3-017 Bogra
P1-018 Satkhira
T1-019 Chuadanga
N1-020 Muladuli

Amendment No. 1 to
BADC/KDC Contract

- Final BADC consideration required.

Dayworks

- Dayworks were authorized for site drainage at Shibganj (Est. \$ 323) and for rail siding drainage at Bogra (Est. \$ 4,585).

Duties and Taxes

- The Indemnity Bond issued to Customs by BADC and KDC was released upon payment of amounts due for Edward Rutledge and Benjamin Harrison shipments.

Subcontracts

- KDC took over door and window fabrication and installation from their subcontractor Rafique Builders at Shibganj.

3. CONTRACT EXPENDITURES

July, 1983 Taka expenditures reimbursable by USAID were:

Local Salary	80,269.00
Office Supplies & Expenses	42,655.15
Dhaka Office Rent/Maint./Utilities	2,856.50
Area Office Rent/Maint./Utilities	12,311.84
Office Furniture & Equipment	1,125.00
Vehicle Operation	99,207.01
Soils Lab. Works	770.00
House Rent/Maint./Utilities	213,919.45
DCS	791,106.68
Local Travel	25,671.50
Expat Per-diem & Hotel	4,340.00
Miscellaneous	2,704.50
Total Taka	<u>1,277,525.13</u>

Expenses reimbursable through BADC's Duties & Taxes Account were Taka 26,500.56

June's expenditure budget is appended.

4. EXPATRIATE STAFF - IECO

In-country expatriate staff during July:

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. Tehen	Construction Engineer

5. MEETINGS

27 July	BADC/KDC USAID/IECO	Construction methods and problems, Site specific discussions, Electrical service, Grill material cost, Rail Sidings, Amendment No. 1 to BADC/KDC Contract, Change Order approvals and Site Turnovers.
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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.

b. Sign outstanding Change Orders.

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

d. Obtain from PDB the location of site power tapping points, and arrange with PDB for electrical service at ten sites.

6.2 For Action by IECO

a. Finalise cost estimates of rail sidings in conjunction with BR, and have BR submit them to BADC for approval of BADC & USAID.

b. Award purchase orders (contracts) for international rail material procurements after necessary approvals have been obtained.

7. ENGINEERING ACTIVITIES

7.1 Materials and Foundations Engineering

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

Crushing strength tests were carried out at Dhaka and at the zonal laboratories on concrete cylinders from Comilla, Feni, Barisal, Bhola, Mymensingh, Madhupur, Melandah, Natrakona, Ammura, Rohanpur, Satkhira, Kaliganj, Kushtia, Atrai, Santahar, Shibganj, Rangpur, Mahendranagar, Dinajpur and Charkai.

Bricks samples were tested at Dhaka Laboratory for possible use at Dhola and Rangpur.

Consistency, setting time and mortar tests were carried out on a sample of 'KOKIRI' brand cement with satisfactory results.

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

For Rohanpur site, surface drainage sections and details in three drawings: riverside slope protection - gabion box structure details; sanitary disposal system - plan, section and details, were developed. Non-draining soak wells-plan, section and reinforcement were completed.

A tabulation was prepared with details of required rail siding construction materials at each site. Detailed lists prepared for rail materials for local procurement and for international procurement; also for supply from ER's used stock.

Sketch plan of Brahmanbaria as-built was modified. The sketch plan of Daudkandi as-built is in preparation.

Drainage channel for Bogra site rail siding was developed. Finished offsite rail embankment grade at Bogra, and alignment of rail siding at Ammura, were surveyed. The alignment of Rohanpur offsite rail siding could not be surveyed due to erection, by unauthorized persons, of temporary huts.

7.3 Rail Siding Construction Arrangements

A meeting has been scheduled by the Ministry of Agriculture for the first week of August to review the progress of arrangements for siding construction. During July IECO communicated to BR the list of materials for local procurement, together with purchasing procedures called for by USAID. International tenders for procurement of hardwood sleepers were evaluated, and BR has been requested to approve the Malaysian Delau hardwood offered by the low responsive tenders.

A Request for Quotation for supply of 90 A rail was issued to the three tenderers which offered alternate rails in the original tenders. Responses to this RFO are due by mid-September.

At the end of July, BR submitted detailed cost estimates to BADC for eleven of the fourteen rail sidings. These estimates are being reviewed by IECO on BADC's behalf. It is anticipated that details of the estimates will be discussed in August. Some modifications are to be agreed upon.

CONSOLIDATED REPORT
MATERIALS TESTING

Sheet 1 of 2

Laboratory Reporting:
Dhaka

Reporting Period:
From 26 June To 25 July

CONCRETE Compressive Strength Test Site	Location	No. of Tests at			Samples Passed at 28 days	Remarks
		7 days	14 days	28 days		
Barisal	Fence post, pile cap, anchor block, pontoon service road, grade beam, int. & ext. col. lintel & sunshade.	15	-	13	8	Five lab. cured cyl. failed. Five field cyl. tested. Three failed cyl. passed and two failed from pile cap and anchor block. Hammer tested and passed.
Bhola	Pile cap. foundation bed of ancl. bldg., int. column, grade beam.	11	4	14	12	Two lab. cured cyl. failed. One field cyl. stolen by vill- agers and the other requested to send to the lab. for test. Two field cured cyl. (from pile cap) pre- viously requested to send for test in the last reporting period were also stolen by villagers. So Hammer tested and found passed.
Feni	Shear wall, int. & ext. column, sus- pended roof slab and beams of godown, grade beam, tie beam.	6	-	11	11	All passed.
Comilla	Slab on grade bldg. Al, Tally Clerk roof slab, water tank supported slab bldg. Al, rail- ing of stairs of bldg. Al, walks road of ancl. bldg. type B1 & C1.	5	-	3	1	Two lab. cured cyl. failed. Field cyl. tested and passed.

CONSOLIDATED REPORT
MATERIALS TESTING

Laboratory Reporting:
Dhaka

Reporting Period:
From 26 June To July

Materials & Tests	Particulars	Tests Total	Tests Passed	Remarks
<u>BRICK</u>	Frog Marks -			Frog marks passed:
Absorption Test	MNB, HBM, PROGATI-83	3	3	MNB (01) HBM(L1).
Compressive Strength Test		3	2	
<u>FINE AGGREGATE</u>				
<u>Stack Test</u>	NAZ-83, GAZI-82'83 NABARUN, PBM, MBM	70	27+35	27 stacks passed: 8 NAZ-83 (01), 5 NABARUN (01) 14 GAZI 82 & 83 (04). 35 stacks need re- sorting: NAZ-83, 30 GAZI-82 & 83.
Gradation Test.		3	2	Tests passed: 1(H1), 1(01)
Field Density Test	Sand fill	32	32	Tests passed: 32(H1).
<u>COARSE AGGREGATE</u>				
Gradation Test:		1	1	Tests passed: 01 (H1).
<u>IMPORTED MATERIALS</u>				
Gradation Test.		64	30	Tests passed: 28 (04) & 2 (01).
Field Density Test	Engineered fill	21	12	Tests passed: 4 (I1) & 8 (04).
<u>SPECIAL</u>				
Cement Test (KOKIRY)	2" Mortar cube test (3-day & 7-day)	6	6	All passed:

CONSOLIDATED REPORT
MATERIALS TESTING

Laboratory Reporting:
Mymensingh

Reporting Period:
From 26 June To 25 July

<u>CONCRETE</u> Compressive Strength Test		No. of Tests at		Samples	Remarks	
Site	Location	7 days	28 days	Passed at 28 days		
Mymensingh	Roof slab, road, bond beam, in- terior column.	8	10	6	Four lab. cured cyl. failed but field cured cyl. passed.	
Madhupur	Roof slab, beam, column, shear wall, int. column, tie beam.	6	14	9	Five lab. cured cyl. failed. Three field cyl. passed and requested to send two field cyl. for test.	
Melandah	Bond beam with shear wall canopy. int. col., road way.	14	14	8	Six lab. cured cyl. failed. Four field cyl. passed and requested to send two field cyl. for test.	
Netrakona	Grade beam, road area. shear wall ext. col. platform.	13	9	3	Six lab. cured cyl. failed. Five field cyl. passed and requested to send one field cyl. for test.	
Materials & Tests		Particulars		Tests Total	Tests Passed	Remarks
<u>BRICK (STACK TEST)</u> Compressive Strength Test		Frog Marks - AAS, R&B, NBM A, BARI		117	30	Stacks passed: 13 AAS (C4), 10 NBM (B2), 7 A. BARI (C2).
<u>FINE AGGREGATE</u> Gradation Test				6	2	Tests passed: 2 (B2), 1 (C4).
Field Density Test		Godown sand fill		69	47	Tests passed: 39 (D1), 8 (C4).
<u>COARSE AGGREGATE</u> Gradation Test..				2	2	Tests passed: 1 (C2), 1 (B2).
<u>IMPORTED MATERIALS</u> Field Density Test		Engineered fill		25	23	Tests passed: 12 (D1) 11 (C4).

CONSOLIDATED REPORT
MATERIALS TESTING

Sheet 1 of 2

Laboratory Reporting
Rangpur

Reporting Period
From 26 June To 25 July

CONCRETE		No. of Tests at			Sample Passed at 28 days	Remarks
Compressive Strength Test Site	Location	7 days	14 days	28 days		
Mahendra-nagar	Godown	19	4	27	27	All passed
Dinaipur	Godown, ancillary bldg.	5	5	23	23	All passed
Charkai	Godown	5	4	16	15	One lab. cvl. failed. Field cvl. to be tested.
Santahar	Godown road, boundary wall.	2	4	25	15	Ten lab. cured cvl. failed. Seven field cvl. also failed. Three field cvl. to be tested and hammer test to be done in boundary wall. Concrete from all walk way from ancl. bldg. A1, B1, C & public toilet removed as failed in hammer test.
Shibganj	Road	--	-	2	2	All passed
Rangpur	Godown, ancl. bldg.	12	12	24	24	All passed. Also one field cvl. failed. Hammer tested and failed int. columns 12 removed.
Materials & Tests		Particulars			Tests Total	Tests Passed
BRICK		Frog Marks -				
Absorption Test		MB, MU'83, BSB, KB,			251	113+123
Compressive Strength Test		STAR MH, WM'83, MAM, MSK, H&S'83, DBM L/T'83				
						113 stacks passed:
						6 MB(K5), 27 MU-83(K5), 5 BSB(K5), 7 KB(K5), 15 STAR(K5), 35 MH(L1), 1 WM-83(L7), 2 MSK(O1), 2 H&S(O1), 2 DBM(O1), 4 L/T-83 (O4), 7 MAM(L7)
						123 stacks need re-sorting:
						6 MB, 19 MU-83, 7 BSB, 16 KB, 6 STAR, 28 MH, 4 WM-83, 16 MAM, 4 MSK, 3 H&S-83, 6 DBM, 8 L/T-83.

CONSOLIDATED REPORT
MATERIALS TESTING

Laboratory Reporting:
Raigpur

Reporting Period:
From 26 June To 25 July

Materials & Tests	Particulars	Total Total	Tests Passed	Remarks
<u>FINE AGGREGATE</u>				
Gradation Test		10	8	Tests passed: 1 (L1), 4 (L7), 3 (O1).
Specific Gravity Test				
Unit Weight Test				
Lab. Compaction Test				
Field Density Test	Sand fill	354	354	Tests passed: 50 (K5), 98 (L1), 120 (L7), 57 (O1), 29 (O)
<u>COARSE AGGREGATE</u>				
Gradation Test		4	2	Tests passed: 1 (L1), 1 (O1).
Unit Weight Test				
Specific Gravity Test				
<u>IMPORTED MATERIALS</u>				
Gradation Test		2	2	Tests passed: 2 (L1).
Atterberg Limit Test				
Natural M/C				
Specific Gravity Test				
Lab. Compaction Test				
Field Density Test	Engineered fill	6	6	Tests passed: 6 (L1).
<u>SPECIAL</u>				
Cement Test (OLYMPIA)	2" Mortar cube test 3-day and 7-day	15	0	All failed

CONSOLIDATED REPORT
MATERIALS TESTING

Laboratory Reporting:
Ishurdi

Reporting Period
From 26 June To 25 July

CONCRETE		No. of Tests at			Samples Passed at 28 days	Remarks
Compressive Strength Test Site	Location	7 days	14 days	28 days		
Amnura	Godown floor, ancl. bldg, road.	10	5	18	14	Four lab. cured cyl. failed but field cyl. passed.
Rohanpur	Godown roof, column, shear wall, ancl. bldg.	13	3	15	14	One lab. cyl. failed. Field cyl. also failed. Hammer test to be done.
Satkhira	Floor Slab.	7	4	8	8	All passed
Kaliganj	Platform, grade beam, penthouse roof.	-	-	5	5	All passed
Kushtia	Ancl. bldg. roof & floor.	7	3	11	9	Two lab. cyl failed. but field cyl. passed
Atrai	Pile cap.	5	-	-	-	

Materials & Test	Particulars	Tests Total	Tests Passed	Remarks
BRICK STACK TEST	Frog Marks -			Stacks passed:
Compressive Strength Test	SARKAR (K3)	46	12	12 SARKAR (K3).
Absorption Test				34 stacks need resorting.
FINE AGGREGATE				
Gradation Test.		1	1	Tests passed: 1(K3).
Field Density Test	Sand fill	257	226	Tests passed: 51(K2), 10(K3), 116(S2), 49(T2).
IMPORTED MATERIALS				
Field Density Test	Engineered fill	393	342	Tests passed: 133 (K2), 45(K3), 99 (N1), 27 (S2) 38 (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.

As nine sites are nearing completion, affected field engineer and inspector positions are to be phased out, and also reassignments are being arranged for some personnel. IECO's Construction Engineers in Zones II and III have switched zones with effect at beginning of August: Mr. Lim taking over Zone II and Mr. Hewick taking over Zone III.

Site-specific performances in July were as follows:

8.2 Zone I (Comilla)

C2 Mymensingh

During July approximately 210 cy of concrete was poured on the remaining portion of roof slab and beams, bringing that work to 100% complete and matching the construction schedule. About 11.5 cy of concrete was poured in the tie beams and canopies thus bringing that work to 97.5% complete, against the 100% scheduled. In addition, 4900 sf of masonry work was constructed on the godown walls by the end of July, bringing that work to about 95.5% complete against 100% planned. At the same time some 5000 sf of plaster works were completed bringing that work to 29% complete or ahead of schedule. About 40% of louvres, vents and windows were installed during the month and some 16,900 sf of concrete road pavement was in place by the end of July to bring that work to 100% complete against 50% scheduled.

During July 13.0% progress was achieved against 14.6% planned. The overall progress of the sitework at the end of July stood at 83.5% against 78.2% planned in the KDC bar chart schedule. This site is scheduled for completion by the end of October 1983 and that schedule should be met without difficulty as there are no ancillary buildings involved at this site.

D1 Madhupur

During July approximately 131.5 cy of concrete was poured on the remaining portion of roof slab and beams bringing that item to 100% complete against 80% scheduled. In addition, some 16.0 cy of concrete was poured in the tie beams and canopies bringing that work to 32% complete against 80% scheduled. On masonry walls approximately 320 sf were constructed during the month bringing the total to 6800 sf or 74.3% against 20% planned. Approximately 70,500 cf of compacted sand fill under floor slab was placed during the month or 70% complete

against 80% scheduled. The installation of louvres, vents and windows was in progress and some 855 sf or 30% of that work completed by the end of the month.

Progress on the ancillary buildings was negligible, as no brick work was performed during July. Only about 1660 cf of compacted sand fill under floor and 2.70 cy of concrete for sunshades was placed during the month to bring the overall percent complete of the buildings to 14.3% against 17% scheduled. The subcontractor was idle most of the time and KDC has been advised to accelerate the progress to meet the schedule for the ancillary buildings.

During July only 6.2% progress was achieved against 11% planned. The overall progress of site work at the end of July stood at 45.3% complete against 48% planned in the KDC bar chart schedule. This site is scheduled for completion at the end of January 1984 and the contractor should accelerate the work at this site in order to match the construction schedule during the month of August.

C4 Melandah Bazar

By the end of July all columns and shear walls were completed and approximately 95% of the compacted sand fill in the godown was completed against 60% planned. Brick masonry walls were under construction and 2670 sf placed during the month.

In addition, approximately 65% of boundary wall was completed by the end of July against 100% as planned, while 68% of the concrete road was paved, bringing that work far ahead of schedule.

On ancillary buildings, brick work was completed upto lintel level on the A1 building and the roof slab was poured and brickwork for parapet wall and penthouse were completed along with plastering of the B1 building. In addition, the roof slabs for C1 building and the public toilet were poured. The overall progress on the ancillary buildings stood at 25% complete against 18% planned at the end of July.

During July approximately 8.6% progress was achieved against 11.1% planned. The overall progress of the site work at the end of July stood at 51.9% complete against 50.5% planned in the KDC bar chart schedule. This site is scheduled for completion by the end of January 1984.

B2 Netrakona

During July some 39.5 cy of concrete was poured in the columns and shearwalls bringing the total of that work to 66 cy or 45% complete against 100% planned. In addition, some 1150 sf or 30% of the brick masonry walls were constructed. Approximately 26,300 cf of compacted sand fill under the godown floor was placed, for 50% complete against 30% scheduled.

During July 700 lf of boundary wall was completed to bring that total to 1150 lf or 50% complete, matching the construction schedule. Approximately 6470 sf of concrete road pavement was placed during the month bringing that total to 9420 sf or 24% complete.

Brick work for the A1, B1, and C1 buildings was completed up to plinth level during July for 6% complete against 18% planned. The subcontractor's work is still lagging by some 12% on these ancillary buildings and KDC has been asked to have their subcontractor expedite the work.

During July, 6.3% progress was achieved against 5.8% planned. The overall progress of the site work at the end of July stood at 39.8% complete against 41.5% planned in the KDC bar chart schedule. This site is scheduled to be completed by the end of January 1984; however, KDC must accelerate their work to meet that schedule.

11 Comilla

Site Preparation: The brick apron works were 100% complete during the month for both the godown and ancillary buildings. In addition, general cleaning and grading works were also performed. The concrete walkways to the ancillary buildings were poured 100% complete by the end of the month.

Godown: The major work in godown included the whitewashing of 3 coats of interior surface and applying 2 coats on the exterior surface. In addition, the louvres and windows were installed including glazing. The built-up roofing was completed on the tally clerk's office. PVC downspouts were attached to the walls. Work on the electrical distribution and sub-distribution boards continued during the month.

Ancillary Buildings: The major work remaining on these buildings includes the whitewashing of all buildings with 2 coats on the exterior surface and 3 coats on the interior surface. The final exterior coat will be deferred until dry weather. The doors and windows for the B1 building have been fitted with sash and the painting work was in progress. The grills were also being fitted in the B1 building while woodwork for the A1, C1 and public toilet buildings was in progress. The water supply tank support was completed on the roof slab of the A1 building and the tanks mounted and connected to the main water supply system. In addition, the system was also pressure tested from 26.6.83 thru 30.6.83 and the system passed the 40 psi test. Flooring and skirting in all the ancillary buildings was completed during the month. The remaining electrical, water supply and sanitary fixtures, such as, towel rails, soap plates, mirrors, cisterns, ceiling fans and light holders were ongoing, with that work expected to be all complete by early August.

Final finishing works that are to be taken up immediately for completion of the site are: power transmission line; finishing coats

of paints to gates, doors, windows and grills; filling the godown expansion joint gap; and the linseed oil treatment of columns.

During July, 4.0% progress was achieved against 4.0% scheduled. The overall status of this site was 97.0% complete at end of July compared to the 100% scheduled. This site is now expected to be ready to turn over to BADC at the end of August 1983.

I3 Daudkandi

Site Preparation: During July common fill was placed on certain areas of the site to bring the level up to final grade. In addition, the shoulders of roads and parking areas were being re-shaped to slope to the edge of the embankment and grass sodding of apron was in progress.

Godown: The godown doors, louvres and windows were given the final coat of paint. In addition, whitewashing with 2 coats on the exterior of the godown and 3 coats on the interior of the godown was completed. The trial mixture of linseed oil and paint for treatment of the columns was prepared and placed on one column for inspection. The treated column was scheduled for inspection by the Engineer at month end.

Ancillary Buildings: The final touch-up work on the ancillary buildings was in progress during the month. Patch-up plaster work was in progress in all buildings and the installation and painting of grills, windows, doors and shutters was completed. In addition, the chimney assembly for the A1 and B1 buildings were installed.

On plumbing and water supply works, all basins, water closets, and fixtures were installed in the A1, B1, C1 and public toilet buildings. In addition, the water tanks were installed on the A1 building and the water supply system tested and passed under 40 psi pressure.

Electrical Works: The electrical fixture in the godown and ancillary buildings have all been installed and tested by the end of July. In addition, meter boxes, switches and distribution pannels have been installed and checked. The only electrical work remaining is the installation of the transmission line from P.D.B. power source to the godown: this is scheduled to be done in August.

Marine Works: The anchor blocks for anchoring the pontoon were cast and placed during the month. The pontoon was completed, transported to site and moored in position. The gangways were installed and the pontoon was ready for service at the end of July.

The progress of work achieved during July was 3.0% against 4.0% planned. Overall status of work at the end of July was 98.0% against the 100% scheduled. This site is now expected to be completed and ready to be turned over to BADC by the end of August 1983.

H1 Feni

Site Development: During the month approximately 5000 cf of engineered fill was placed and compacted in the road and parking areas. In addition, the boundary wall including angles and barbed wire was 100% completed. No progress was made on the drainage channel during the month due to heavy rains and local flooding.

Godown: Some 5000 cf of sand fill was placed and compacted in the godown. Approximately 85% of the concrete in the shear walls was completed by the end of July. In addition, some 170 cy of concrete was poured in the roof slab and beams bringing that work to 35% complete. Concreting of 10 interior and 6 exterior columns was also completed and by the end of July only 10 columns remain to be cast.

Ancillary Buildings: The trenching and laying of some 560 lf of 1½" Ø water supply line from the C1 building to the public toilet was completed during the month.

The progress of work achieved during July was 5.2% against 7.9% scheduled. The overall progress of sitework stood at 46.3% at the end of July against 47.8% scheduled. This site is scheduled for completion at the end of January 1984 and it is anticipated that it can be completed before that date as the work on the ancillary buildings (office and public toilet only) is nearly complete now.

Q4 Barisal

Godown: In July about 28 cy of concrete was poured for the remaining grade beams to bring this work to 98% complete against 100% scheduled. Approximately 47 cy of concrete was poured in the columns and shear walls, for 62% completion against the 100% scheduled.

Site Preparation: An additional 50,000 cf of engineered fill was placed and compacted in parking and entrance road areas during the month to bring that work to 92% complete against 100% planned. At the end of July, the boundary wall was approximately 60% complete against the 50% scheduled. An additional 3,700 sf of brick gabion was constructed on the marine loading facility to bring that work to 55% complete against 20% scheduled.

Ancillary Buildings: Brickwork for A1 Building continued above the first floor level while the pouring of roof slabs for B1, C1 and public toilet buildings was completed. The overall status of ancillary buildings at the end of July was 19% complete against 18% scheduled.

During July approximately 7.5% sitework progress was achieved against 7.8% planned, while the overall status of sitework at the end of July stood at 39.5% against 36.5% scheduled. This site is scheduled for completion by end of January 1984.

Q1 Bholia

Godown: During July about 111 cy of concrete was poured in grade beams to bring that work to 84.4% complete against 100% scheduled. At the end of the month approximately 38 cy of concrete was poured in the columns and shear walls to bring that work to 18.9% complete against 100% scheduled.

Site Preparation: In July, an additional 15,000 cf of engineered fill was placed and compacted in godown and ancillary building areas to bring that work to 91% complete against 100% scheduled. At month end, an additional 75 lf of boundary wall was constructed or 11.3% complete against 100% scheduled.

Ancillary Buildings: Brickwork for A1 and B1 buildings was completed to lintel level while the concrete pouring of roof slabs was started on the C1 and public toilet buildings. Overall progress of ancillary buildings at the end of the month stood at 13%, ahead of the 9% scheduled.

Additional land acquisition proceedings are still in progress and no transfer of the property has yet been finalized.

During July only 3.8% progress was achieved against 5.8% planned while the overall status of sitework at the end of July stood at 33.0% against the 38.4% scheduled. Lagging behind the schedule was primarily caused by rain and holidays; however, KDC has been requested to mobilize more equipment and materials to expedite the work in August, in order to regain the work loss in July. This site is scheduled for completion by the end of January 1984.

8.3 Zone II (Bogra)

M1 Santahar

West Godown (10,000 Tons): The painting of godown doors was 100% completed during the month. This godown is now complete except for the following:

- 1) Final coat of whitewash on exterior walls.
- 2) Extension of downspouts over the platform stairways.
- 3) Replacement of putty in some of the window panes.
- 4) Installation of doors and windows in Tally Clerk's offices and repair of cracks on the plastered walls.
- 5) Electrical grounding system and installation of transmission poles.

East 1 Godown (6,000 Tons): All the godown doors were painted during the month. The work remaining to be done is the following:

- 1) Final coat of whitewash on exterior walls.
- 2) Extension of downspouts over the platform stairways.
- 3) Repair of horizontal cracks on plaster at bottom of some tie beams. (These cracks were caused by bad bond between brickwall and concrete tie beams.)
- 4) Doors and windows for Tally Clerk's offices.
- 5) Electrical grounding system.

East 2 Godown (6,000 Tons): Painting of the godown doors was completed during the month. Work remaining to be done is as follows:

- 1) Painting of louvres and window frames.
- 2) Surface finishing of columns.
- 3) Repair of horizontal plaster cracks at bottom of some tie beams.
- 4) Installation of doors and windows in the Tally Clerk's offices.
- 5) Final coat of whitewash on exterior walls.
- 6) Electrical grounding system.

Ancillary Buildings

Type C Building: During the month two coats of whitewash were applied, electrical wiring completed and grills fixed. The remaining works to be done are:

- 1) Installation of water supply fittings.
- 2) Installation of doors and window shutters.
- 3) Painting of grills.
- 4) Final coat of whitewash.

Type B-1 Building: The installation of the interior sewer and water lines, as well as the placement of flooring and skirting were completed. The remaining works to be done are:

- 1) All toilet facilities and fittings are to be installed.
- 2) Installation of doors, window shutters and grills.
- 3) Surface finishing of sunshades and cornice.
- 4) Final coat of whitewash.

Type A-1 Building: During the month the sewer and water lines were all installed, flooring and skirting completed and the installation of veranda grills was in progress. Remaining works to be done are:

- 1) Doors and window shutter installation.
- 2) Toilet and bathroom facilities to be fitted.
- 3) Surface finishing of sunshades and cornice.
- 4) Neat cement finishing works.
- 5) Final coat of whitewash.

Site Preparation: Placing of grass sodding on slopes of railway siding fill was completed during the month. Aprons around all ancillary buildings were completed; however, the concrete sidewalks to all three buildings had to be removed due to not attaining the required 28-day strength. The remaining 24-foot wide rail siding gate was installed. The pavement of the drainage channel is now 75% complete.

Progress during July was only 0.8%, lagging the 3.0% scheduled. Overall completion at end of July stood at 93.2% against a scheduled 100%. It is now anticipated that this site will not be completed until September. However, KDC is planning to complete the site and turn it over to EADC by end of August 1983.

M3 Bogra

Site Development: The repair to railroad and approach road fill slopes continued intermittently during the month. The work order for a longitudinal drain along and adjacent to railroad platform was issued to the contractor during the month.

Godown: Neat cement finishing work around the perimeter of godown was completed. Repairing of defective plastering, replacing putty on windows and other minor remedial works were on-going. Final whitewash coat has yet to be applied.

Ancillary Buildings: Major efforts were concentrated on the ancillary buildings during the month. Work continued on the installation of window shutters, doors, grills and water and sanitary plumbing fittings. The water supply pump house was completed. The final whitewash coat has been applied to all buildings. The electrical circuits of all buildings were tested by a temporary power supply connection and found satisfactory. In respect to the ancillary buildings, completion is about 95%, and 85% for sanitary and plumbing works.

A detailed punch list, outlining the works remaining on the godown and ancillary buildings has been furnished to the contractor in July. This work is scheduled to be completed in August.

During July only 1.9% progress was achieved, making the overall progress for Bogra at the end of July 96.7%. This site was scheduled to be 100% complete by end of June; however, it is now estimated that it can be completed by end of August and turned over to BADC at that time, provided that all the works on the punch list have been completed.

03 Panchagar

Site Preparation: Except for minor repairing of rain cuts and the addition of grass sod slope protection works, nothing else was accomplished during the month. The remaining work to be done includes: the dressing of ground surface around ancillary buildings; surface finishing of boundary walls; and repair of expansion joints of concrete road pavement.

Godown: The doors and windows for Tally Clerk's offices were installed during the month. The major items remaining to be done include: fixing of M.S. angle on loading platforms; the final coat of white-wash; repairing of caulking material and putty on louvres and windows; and repairing the neat cement finish on loading platforms.

Ancillary Buildings: Doors and windows have been installed on all buildings and painting is in progress. Remaining works include: the fixing of glass panels, grills and smoke hoods in kitchen, and the application of the final coat of whitewash.

All the water supply pipelines have been installed and pressure test of the system is scheduled for early August. Except for water closet long pans no other sanitary and water fittings have yet been installed in the buildings.

During July 3.8% progress was achieved against 4.0% scheduled. However, the overall progress stands at only 91% against a scheduled 100%. This site could be completed by end of August if a better effort is made by contractor on the remaining finishing works as indicated on the punch list submitted to KDC in July. KDC plans to complete this site and turn it over to BADC by the end of August 1983.

01 Dinajpur

Site Preparation: Except for installation of entrance and pedestrian gates, nothing else was accomplished on exterior sitework during the month.

Godown: All brickwork up to elevation 10 feet was completed and up to elevation 15 feet on twenty bays. Some twenty bond beams were also cast on top of the brickwall at elevation 15 feet. Concreting of the roof slab was started and was about 41% complete at the end of July. Placing and compacting of sand fill for godown floor slab continued throughout the month: and the concreting of floor slab started and about 10% completed.

Ancillary Buildings: Since the subcontractor was terminated on 16 June no further work has been accomplished on the ancillary buildings. Approximately 40 working days have been lost on the schedule. The work accomplished to date on these ancillary buildings amounts to only 14% against a scheduled 40%. KDC must resume the work on these buildings on an accelerated pace during August to catch-up the schedule.

Progress during July was 8.5% against 4.8% planned on the KDC bar chart schedule. The overall progress at this site stood at 40.6% against a scheduled 35.9%. This is due to very good progress on the godown during July. This site is scheduled for completion at the end of January 1984.

K5 Atrai

Site Preparation: The placing of fill on the slopes of parking area continued throughout the month. The engineered fill is now approximately 86% complete. Due to rising water level the fill work on the pontoon ramp has been temporarily suspended. The pontoon is now 95% complete in the KDC Narayanganj yard and will be towed to the site in August.

Godown: All interior and exterior pile caps were concreted and the forming of foundation walls was started during the month.

Ancillary Buildings: Excavation for foundations of the A1 and B1 buildings was started and completed and the 3" lean concrete base for starting brickworks was poured.

During July the progress achieved was 7.7% against 6.8% on the KDC new bar chart schedule. The overall progress at this site stood at 46.6% against a scheduled 42.2%. This site is scheduled for completion by end of January 1984.

04 Charkai

Site Preparation: Construction of boundary wall was started and approximately 3% of the work was completed by the end of July. No other work was taken up during the month and the engineered fill remains at 72% complete.

Godown: The remaining columns and shear walls were concreted and both items are now 100% complete. One column was removed due to bad workmanship, and rebuilt. Concreting of the roof slab and beams was started and is now about 52% complete. Concreting of floor slab was started and was about 25% completed at the end of July. Brickwork for walls was started and is now completed up to first bond beam level. The placement and compaction of coarse sand under floor slab continued throughout the month and is presently 82% complete. Construction of godown is well ahead of schedule at the end of July.

Ancillary Buildings: Construction of E-1 building was taken up during this period. Brickwork up to plinth level was completed and brickwork for 10" and 5" walls was in progress but very slow. Only 1.2% of work has been completed against a scheduled 20%. These buildings must be expedited by KDC in August to regain the schedule.

During July 9.8% progress was achieved against 8.8% planned on the new KDC bar chart schedule. The overall progress at this site stood at 39.3% against a scheduled 38.9%. This site is scheduled for completion by the end of January 1984.

L1 Rangpur

Site Preparation: Except for some engineered fill for railroad siding this item is now 95% complete. The work on the boundary wall has not yet been started and remains 50% behind schedule at the end of July.

Godown: Work during the month consisted of placing concrete for columns, shear walls, bond beams and in the floor slab. Masonry walls were started and now completed all around the godown to elevation 10 feet. Coarse sand under floor slab was placed and compacted. Twelve interior columns were demolished due to not attaining the specified 28-day strength. They were repoured satisfactorily during this period. Work in the godown is ahead of schedule as of the end of July.

Ancillary Buildings: Foundation excavation was started and completed on all three buildings and the 3" lean concrete base was poured for footings. Brickwork for foundation of the C1 building has been completed to plinth level. Work on ancillary buildings is now 39% behind schedule. KDC must expedite this work during August to regain the schedule.

During July only 4.7% progress was achieved against 5.9% planned on the new KDC bar chart schedule. The overall completion at end of July stood at 42.8% against a scheduled 43.5%. This lagging in progress is primarily due to the lack of work on the ancillary buildings. This site is scheduled for completion by end of January 1984.

L7 Mahendranagar

Site Preparation: Nothing was accomplished on exterior sitework during July. The boundary wall has not yet started, though scheduled to be completed now. Lack of bricks is the problem. A local source of bricks was found and tested as of satisfactory quality during July.

Godown: Placing and compacting of coarse sand for floor slab foundation continued throughout the month and was about 84% complete during July. The placing of concrete for columns, both interior and exterior, was completed and 11 tie beams at elevation 10 feet and 19 at elevation 15 feet were concreted. Tie beams are now 51% complete. Concreting of roof slab continued throughout the month and the item now stands at 65% complete. Masonry work for exterior walls continued and is presently about 52% complete. Work in the godown is progressing well and contractor is well ahead of schedule.

Ancillary Buildings: Work on ancillary buildings has been started with the excavation of foundation for office building and the pouring of the 3" lean concrete base for brick foundations. Work on ancillary buildings is approximately 15% behind schedule as of the end of July.

The progress of work achieved during July was 12.9% against 8.3% planned on the new KDC bar chart schedule. The overall progress at this site stands at 48.1% against a scheduled 38.5% or far ahead of schedule. This site is scheduled for completion at the end of January 1984.

02 Shibganj

Except for some plastering work on the ancillary buildings, fitting of some door and window frames and fabrication of grills, nothing else was accomplished at this site during July. The amount of work was so negligible that no invoice was submitted for this period. There is no KDC supervision at this site and the ancillary buildings subcontractor has reduced his manpower. Some of the works remaining to be done are listed below.

Site Preparation:

- a) Levelling and dressing of ground surface.
- b) Bituminous roofing of guard house.
- c) Fixing of barbed wire for a length of 50' and tightening of the wire.
- d) Slope protection by grass sodding.
- e) Rectification of expansion joint in road pavement.

Godown:

- a) Repair of cracks developed in plastered surface.
- b) Rectification of neat cement finish work. Providing groove joints to prevent cracks.
- c) Final coat of painting on godown door.

- d) Bituminous roofing of Tally Clerk office roof.
- e) Providing caulking and replacement of putty in louvres.
- f) Whitewash of exterior wall surfaces.
- g) Stoppage of leakage in PVC downspout.
- h) Fixing of Tally Clerk office doors and windows.
- i) To provide water stop in godown door.
- j) Vertical expansion joint (Exterior Column).

Ancillary Building: Delay in supplying door and window frames from Santahar prevented taking up of this work on the ancillary buildings. The plastering, whitewashing and fixing of grills is proceeding very slowly. A total of 39 window frames have yet to reach the site (12 for A1, 27 for B1 and 3 for Public Toilet). In addition, the neat cement finish for the bathroom and toilet of all buildings has not yet been taken up. Gravel stops have not been provided in the pent-house of both the A1, B1 and C1 building roofs. Flooring and skirting works have not been done in the public toilet. Whitewashing, both inside and outside surface of the A1 and B1 buildings and public toilet not yet been taken up. The metal chimney in kitchen of A1 and B1 buildings has not been fixed. In building C1, the final coat of whitewash has not been applied.

Sanitary and Plumbing:

- a) Main water line to be placed 2'-0" below ground level.
- b) Gate valve pit (4 units) not built.
- c) Cistern (high & low mounted) not yet installed.
- d) Hand wash basin, towel rail, shower rose, mirror, soap plate, bib cock, pit valve, check valve not installed.
- e) Water pump not installed and the pump house not yet built.
- f) About 25% of plumbing work yet to be done.
- g) Pressure test not done.
- h) Checking of sanitary lines not done.

Electrical:

A) Warehouse

- a) 35 mm² copper conductor not fixed.
- b) Transmission poles not installed.

B) Ancillaries

- a) Service connection A1, B1 building not complete.
- b) Bracket light, ceiling light and ceiling fan not installed.
- c) Switch boards not installed.
- d) Copper earthing block not installed.
- e) Gate-mounted lamp not fixed.

The status of work remains the same as that in June, namely 95%; and it is now anticipated that the site will not be completed until September. However, KDC plans to complete this site in August and turn it over to BADC. This can only be possible with a planned and coordinated effort by KDC to complete the above-listed remaining works.

8.4 Zone III (Ishurdi)

K3 Rohanpur

During July, work continued on the construction of the approach road to the site with the following progress: 12,730 cf of excavation; 5940 cf of compacted engineered fill, 4994 sf of concrete road pavement; and 324 lf of road expansion joints. Placing of embankment with on site material started, and progress was slow with only 13,230 cf completed on a portion on the southern part of the site from Elevation 80.7' to 83.6'. Use of inefficient equipment for compaction of the clayey soil, in addition to inclement weather, slowed down the rate of progress.

In the godown, foundation excavation for the rail siding platform was in progress. Total concrete poured in the godown during the month was 211.8 cy, representing 79 cy for completion of the eastern half of roof slab and beams; 6.8 cy for platform footings; 22.1 cy for columns; 69.9 cy for shear walls; and 34.0 cy for tie beams and canopies. The western half of the godown lacks tie beams and roof slab. Five columns (B6, B7, D8, C3 & C4) were found to give poor preliminary cylinder break results; these columns also tested with the concrete hammer and found to be suspect. Consequently, delay in further concrete pours was ordered by the Engineer pending confirmation of field-cured 28-day concrete cylinders. These were due for transfer to Ishurdi laboratory for test on 31 July. KDC proceeded with further roof shuttering and rebar work on the western half of the godown, but has been instructed not to proceed with roof concreting until test results are available.

Brickwork and plastering on the eastern half of the godown were 100% completed during the month. Built-up bituminous felt roofing was completed from column grid lines 12 to 20 and placing of sand fill in the eastern half of the godown was started. Initial compaction results on the sand fill were unsatisfactory. The work was done by manual methods. Unless mechanical equipment is used, the progress of the work will be slow.

In the ancillary buildings, brickwork for A1 building progressed to roof level while the concrete roof was cast for the B1, C1 and public toilet buildings. Brickwork was progressing above roof level for penthouse of the B1 building. Interior plastering was in progress in the A1 building. Progress on the ancillary buildings continued to fall behind schedule and KDC has been requested to resolve the problems related to the quality of bricks delivered to site and continuing shortage of skilled masons.

Detailed drawings for site works for riverside embankment protection were completed and issued to KDC in July. Embankment construction with on-site clayey materials will be deferred until the rains stop in order to get proper soil compaction results. Brick gabion slope protection and cut-off wall works will also be deferred until the river level recedes.

The estimated progress of work completed during July was 8.4%, lagging the 10.5% scheduled. Overall progress of work completed at the end of July stood at 44.1% against the 51.7% planned, failing to attain the scheduled progress. KDC has been requested to submit a construction schedule for the deferred embankment and gabion works, allowing fill construction in the dry season and gabion construction at low river levels. This site is scheduled for completion in January, 1984.

K2 Annura

During July, the placing and compacting of engineered fill continued on the ancillary building areas, with approximately 6400 cf of fill material placed. Approximately 6000 cf of common fill material was placed to bring up site levels. Brick apron paving around the ancillary buildings was in progress. The remaining concrete walkway was completed. In addition, an entrance gate and a pedestrian gate were installed. Grass sodding for slope protection continued during the month with another 2,500 sf placed. At the end of July external site works were about 97% complete.

The godown was essentially completed except for installation of the interior electrical works. This work is behind schedule. The remaining half of the interior concrete floor slab from grid lines 1 to 8 was completed in July and included: 9,360 cf of sand fill; 19,160 sf of plastic vapor barrier; and 381.45 cy of concrete. The last two godown doors were installed while all 28 PVC downspouts were in place. Painting was started during the month and some 22,000 sf of surface was whitewashed.

In the A1 building the roof and the water tank support structure was completed, while in the B1 building the slab on grade was completed except for bathroom and toilet areas. The fixing of steel grills in the B1 and C1 buildings were in progress during the month. In all ancillary buildings brickwork, plastering and neat cement finish continued in progress. Also door and window frames were being installed. Excavations for water and sewer lines were in progress during the month.

The work on this site is ahead of schedule for site and godown works and on schedule in ancillary buildings. During July progress achieved was 6.3% against 10.3% planned; however, the overall status of site-work is estimated to be 82.9%, ahead of the 71.4% scheduled. This site is scheduled for completion in November 1983. It could possibly be completed ahead of schedule.

N1 Muladuli

During July, work continued on the construction of the peripheral local access road bordering the site boundary wall. Progress on this access road included 5,760 cf of stripping, and the placement and compaction of 6,470 cf of engineered fill. In addition, one security gate house was completed along with another 120 lf of boundary wall.

In the godown, the installation of steel louvres continued and whitewashing was in progress. Godown work was about 99% complete by the end of the month. The status of ancillary building construction was estimated at 83% complete: steel grills and doors were almost complete, window sashes were fixed, and installation of glass was in progress. The sanitary and plumbing works, as well as electrical installation works for ancillary buildings, were about 80% complete, with the installation of plumbing and electrical fixtures in progress. A detailed punch list of the finishing works remaining for KDC to accomplish was given to them in July. Major work remaining includes installation of the on-site power pole line, and carrying out the program for pressure testing the water supply system and checking the sanitary system.

The work achieved during July is estimated at 3.6% against the 8.0% planned in the new bar chart schedule. The overall work status at Muladuli is 94.7% complete at the end of July, slightly lagging the 96.0% planned. This site is scheduled to be completed for handing over to EADC by the end August. However, KDC must expedite the completion of minor finishing works to realize this schedule.

T2 Kushtia

During July, approximately 1790 cf of engineered fill was placed in the ancillary building areas. Other minor site work completed during the month included 47 sf of concrete walkway for gate entrance to the existing godown, 10 lf of barbed wire fencing and 52 lf of road expansion joints.

In the godown the remaining 680 sf of neat cement finish on platform walls and around exterior grade beams were completed. Two godown doors were hung to complete that work. Another 373 sf of steel louvres, vents and windows were completed during the month and the temporary brick flooring progressed another 10,000 sf. Approximately 16,000 sf of godown wall surfaces were whitewashed. Thirty eight ceiling light fixtures were installed, as well as the distribution and sub-distribution boards. Interior electrical wiring for godown was completed, except for testing. Except for minor remaining repair work the godown is substantially complete. Early advice of PDB is required for location of the power source, so that the site electrical pole line can be installed. This is being pursued by IECO and EADC.

Roof work on the ancillary buildings was accomplished, including installation of bituminous felt roofing. Slabs on grade for all ancillary buildings were completed, except for bathrooms and toilets. Plastering was almost complete and whitewashing of walls started. Installation of steel grills was in progress with some 400 sf completed. Door and window frames were being installed and the fixing of wooden doors and sashes was in progress. Excavations were in progress for laying plumbing and sewer lines. A tubewell was sunk to a 160 foot depth: this work is pending testing of water samples for potability by the Public Health Authorities of Kushtia District.

Work accomplished during July was estimated at 7.3%, ahead of the 6.0% planned on the new bar chart schedule. The overall status of completion is estimated at 86.6%, ahead of the 82.0% scheduled for end of July. This site should be completed, as scheduled, by the end of October 1983.

T1 Chuadanga

During July, another 100 lf of the boundary wall was completed. In the godown, whitewashing progressed another 7,100 sf. Concreting of the final partial slab of the godown floor was started on 25 July, and it will take about four weeks to complete the floor work.

In the ancillary buildings, the doors, windows and steel grills were being installed but were behind schedule due to shortage of supply. The whitewashing on the buildings was complete except for the final exterior coat. Some plumbing and sanitary fixtures were installed in the ancillary buildings and interior electrical wiring was completed. The installation of light fixtures was in progress.

Site preparation was about 97% complete at end of July while godown work was about 99% complete. Ancillary building construction is estimated at 86% complete with sanitary and plumbing at 70% complete, while the electrical installation works are about 80% complete. A detailed punch list of the finishing works remaining for accomplishment was provided to KDC in July, and they are proceeding accordingly. Progress of work during July is estimated at 4.6% against the 4.0% planned in the new bar chart schedule. The overall work status at Chuadanga site was estimated 95.2% complete at the end of July against 100% scheduled. Due to problems associated locating the electric service power point, the on-site electrical power transmission pole line construction has not yet been scheduled. BADC is pursuing this matter with PDB. Testing of the water supply system and checking the sanitary installation lines was started at the end of July. KDC plans to complete this site by 31 August 1983.

S2 Kaliganj

During July, placing and compacting some 200 cf of engineered fill in the platforms was accomplished.

In the godown, all remaining 22,250 cf of sand fill work was completed. Plastic vapor barrier was laid over 27,250 sf and the first course of brick soling completed for the temporary floor. Work started on the top course flat brick soling with some 400 sf completed. The remaining 9,000 sf of brick walls were plastered during the month. In addition, another 500 sf of steel louvres, windows and vents were installed. All twenty-eight PVC downspouts were installed by the end of the month, and whitewashing of walls was started with about 12,000 sf completed.

One platform slab with corner steel angle guard was cast and similar work on other platforms will proceed upon acceptance by the Engineer. The interior electrical installations for the godown were almost complete with ceiling light fixtures and switches being installed.

In the ancillary buildings, all plastering and neat cement finish work was completed. About 770 sf of steel grills were installed, as well as, all door and window frames. Whitewashing was in progress with some 15,000 sf completed. The remaining 2,735 sf of roof surface was complete with bituminous felt roofing, with only flashing works remaining to be done on the A1 and B1 buildings. Excavation for sanitary and plumbing lines was in progress.

During July, the progress of work was estimated at 9.7%, ahead of the 7.2% planned. At the end of the month the overall completion stood at 80.8% against the new bar chart schedule target of 81.9%, or slightly behind. The site is scheduled to be completed by end of November 1983 and at the current rate of progress it should be complete on that schedule.

P1 Satkhira

During July, grass sodding for slope protection works was completed. In the godown the last panel of concreting for the floor slab was poured successfully on 21 July. Whitewashing of walls progressed another 3,500 sf.

On all the ancillary buildings the doors were being installed. In addition, window sashes were also installed except for glass panes and wooden stay blocks. The chimney stack concrete pipe was also installed and completed during the month. Whitewashing was completed except for the final exterior finishing coat which is to be done during maintenance period for all the buildings. The remaining plumbing and sanitary fixtures were also installed by the end of the month.

As reported last month, KDC has yet to install the electrical transmission pole facilities. Pressure testing of the water supply system and the checking of the sanitary and electrical installations remains to be done.

The site preparation was about 96% complete at the end of July while the godown works was about 99% complete. Ancillary building construction is estimated at 90% complete, with sanitary and plumbing at 90% complete and electrical installation works about 80% complete. A detailed punch list of the finishing works remaining for KDC to accomplish was provided to them in July and they are proceeding accordingly.

During July 3.7% progress was achieved against the 4.0% planned. The overall site completion is estimated at 96.0%, lagging the 100% targeted. Completion of this site was originally scheduled for the end of July 1983 but will have to be extended by at least one month, depending on KDC's ability to complete all remaining works as per the punch list provided in July. It is KDC's intention to complete this site by the end of August 1983.

9. CONTRACTOR'S ACTIVITIES

The following are excerpts from KDC's monthly report No. 21 for the month of July 1983.

1. OVERALL PROJECT ACTIVITIES

1.1 GENERAL STATEMENT OF PROGRESS

Overall project completion is estimated to date as 72.0% against a planned 72.9%.

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

Zone-I	Planned	20.9%
	Actual	20.5%
Zone-II	Planned	34.0%
	Actual	33.5%
Zone-III	Planned	18.0%
	Actual	18.0%

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	:	63.5%
Actual Achieved Progress	:	64.6%
ZONE-II (45.96% of Total Project Cost)	:	
Planned Progress upto current period	:	72.9%
Actual Achieved Progress	:	73.9%
ZONE-III (21.74% of Total Project Cost)	:	
Planned Progress upto current period	:	82.8%
Actual Achieved Progress	:	83.0%

All sites are in operation. Substantial certificate of completion has been received for one site.

Total expatriate staff now equals 150 persons against the original planned estimate of 75 persons.

1.2 PROBLEMS AND DELAYS

1. Due to non-payment of duties and taxes, roofing materials were held by customs officials at Khulna Port. This non-payment was due to sufficient deposits not being made to the duties and taxes account by BADC in accordance with Clause 79 of the Conditions of Contract. Work was delayed at several sites including Brahmanbaria, Bogra and Santahar. It is estimated that a demurrage charge of approximately Tk.300,000.00 will be levied on the materials by Khulna Port officials. A claim shall be made to recover this additional cost.
2. The non-availability of bricks complying with Contract Specifications remains a serious problem. Insufficient (or lack of) brick supplies at the more distant sites continue to cause delays. Problems also remain with the IECO testing procedure which continues to cause delays at the remoter sites.
3. The non-availability of PDB grid 'tapping points' is causing problems. Despite repeated requests, 'tapping points' for electrical power for the warehouse sites have not been provided, delaying the finalization of electrical shop drawings and subsequent procurement of required materials. It is apprehended that such delays may cause delays in the overall work schedule.
4. A notice of intention to claim a time extension for the overall project has been served on IECO. Specific reasons for claiming a time extension include: late issuance of radio licence, changing of specified sand piles to pre-cast pile foundations, delayed possession of some sites, delay in removal of structures obstructing work at some sites, appreciable changes in originally specified contract work, local labour problems etc.

1.4 EQUIPMENT

<u>DESCRIPTION</u>	<u>NO.</u>
<u>HEAD OFFICE</u>	
Generator	1
Pick-up	2
Sedan	2
Microbus	1
<u>WORKSHOP & CRUSHING PLANT NARAYANGANJ</u>	
Excavator	1
Vib. Hammer	3
Cargo Truck	1
Tractor	1
Trailer	1
Penetrometer	1
Conc. Vibrator	10
Welding Machine	3
Barge	1
Battery Charger	1
Pile Leader	1
Angle Leader	1
Crusher	1
Crawler Crane	1
Payloader	1
Generator	1
Batching Plant	1
Dump Truck	1
Jeep	1
Launch Boat	1
<u>KHULNA DEPOT</u>	
Crawler Crane	1
Jeep	1
Diesel Welder	1
Bar Cutter	1
Generator	1

1.5 MATERIAL PROCUREMENT AND SHIPMENT Same as in April 1983.

1.6 EQUIPMENT PROCUREMENT AND SHIPMENT

As of July 31, 1983

<u>Vessel/Arrival</u>	<u>Flag</u>	<u>From</u>	<u>Items</u>	<u>No.</u>	<u>B/L Ton</u>	<u>Remarks</u>
o Ivory Dragon 28.1.82	Korea	Korea	Diesel Engine	8	3.2	All Delivered to Site
o Benjamin Darrison 6.3.82	U.S.A.	U.S.A.	Vibratory Roller	3	20	"
o Al-Sayesta 7.3.82	Bangladesh	Singapore	Shaft for Concrete Vibrator	3	1.06	"
			Freezer	8		"
			Refrigerator	10		"
			Air Conditioner	15	27.22	"
			Water Heater	9		"
			Transformer	8		"
			Concrete Dumper	7	37.75	"
			Generator	10	87.98	"
			Wheel Loader	3	46.15	"
			Truck Crane	1	91.39	"
			Tractor	4	78.45	"
					370.00	"
o Button Gwinnett 31.3.82	U.S.A.	Korea	Tower Winch	8	43.18	"
			Plate Compactor	4		"
			Submersible Pump	4		"
			Water Pump (Gasoline)	4		"
			Conc. Vibrator	15	10.92	"
			Conc. Vibrator Length	20		"
			Conc. Vibrator (Electric)	15		"
					54.10	"
o Banglar Swapna 21.4.82	Bangladesh	Korea	Concrete Mixer	10	421.40	"
o Al-Salma 21.5.82	Bangladesh	Singapore	Air Conditioner	54		"
			Refrigerator	4	27.00	"
o Button Gwinnett 21.7.82	U.S.A.	U.S.A.	Pick-up	10	124.00	"
o Banglar Preeti 20.9.82	Bangladesh	Japan	Crushing Plant Accessories		5.50	"
o Oriental Express 16.10.82	Korea	Korea	Crushing Plant Accessories		0.413	"
			Diesel Hammer 5 Ton		20.723	"
o Edward Rutledge 20.9.82	U.S.A.	Korea	Tire & Tube	20 C/S	13.200	"
			TOTAL		1,059.536	

SUMMARY

<u>Vessel</u>	<u>Equipment</u>	<u>Material</u>	<u>Total</u>
Korean Flag	24.336	6,274.902	6,299.238
U.S. Flag	211.300	5,763.229	5,974.529
Bangladesh Flag	823.900	1,988.606	2,812.506
TOTAL:	1,059.536	14,026.737	15,086.273

II. SPECIFIC SITE ACTIVITIES

1. ZONE - I

1.1 GENERAL STATEMENT OF PROGRESS

Daukandi-I3

Demobilization payment began this month as the total payment went over 88% of the total mobilization amount. Engineered fill was completed in its entirety this month.

The loading dock platform was completed and a small amount of painting work was accomplished on the warehouse.

The last remaining portions of the floor slabs in the ancillary buildings were completed this month. A small amount of work on bathroom and plumbing fixture installation was carried out.

Planned progress to date is 100.0%. Actual achieved progress is 97.8%.

Comilla-I1

Demobilization payment was begun this month. The brick-paved apron around the warehouse was completed.

The main warehouse activity this month was the initiation and substantial completion of warehouse painting work. Thirty-two PVC downspouts were installed and the fixing of wooden doors and windows for the warehouse was begun and completed in this period.

Excellent progress in the ancillary buildings was achieved. The buildings were about 82% complete at month's end as compared to about 37% at the beginning of the month. With most of the progress deriving from gains in finishing work, much of the finishing work on these buildings were substantially complete at month's end. Door, window and steel grill installation, flooring and skirting work, and painting work were the main activities this month. Bathroom and plumbing fixtures were installed in the ancillary buildings and good progress was registered on the water supply system. Electrical utility work continued despite problems.

Planned progress to date is 100.0%. Actual achieved progress is 96.9%.

Feni-H1

The boundary wall was completed and an additional 5,000 cubic feet of imported fill was put in place this month.

In the warehouse concrete pour continued in the column and shear wall formwork. Concrete pour also continued in the roof slab bays with concreting work to over a third of them completed by month's end. A small amount of compacted sand fill was also put in place in the warehouse floor area.

Planned progress to date is 47.8%. Actual achieved progress is 45.5%.

Mymensingh-C2

Two entrance gates and one pedestrian gate were installed last month and some further work on the concrete road was accomplished.

The warehouse saw the near-completion of almost all structural work (except the floor slab) and the initiation of finishing work. All five warehouse doors were installed along with more than half the square footage of warehouse louvers, vents and windows.

Planned progress to date is 78.2%. Actual achieved progress is 78.9%.

Madhupur-D1

About five hundred linear feet of the irrigation ditch was completed before 25th July. In the warehouse some more compacted sand fill was placed under the floor slab. Concrete pour continued in tie beams and canopies as well as the last remaining roof slab bays. Installation of louvers, vents and windows was begun.

In the ancillary buildings, concrete pour in the floor slab in one of the buildings began after sandfill compaction was completed. Concreting work in the sunshades of this building was also started.

Planned progress to date is 48.0%. Actual achieved progress is 48.7%.

Melandah Bazar-C4

More than half of the concrete road was completed this month. The boundary wall also saw some additional work.

Sandfill compaction underneath the planned floor continued along with concrete pour for columns, shear walls and tie beams. The columns and shear walls were nearly complete at month's end.

Roof slab casting was nearly complete in two of the ancillary buildings at the end of July. The floor slab pour was also begun in one of these buildings.

Planned progress to date is 50.5%. Actual achieved progress is 49.0%.

Netrakona-B2

About 17% of the concrete road in this site was complete. The half of the boundary wall was complete by the end of the period under review.

Concreting of pile caps was nearly complete while concrete pour for wall foundations, columns and shear walls continued.

Two of the ancillary buildings (B1 and C1) were structurally complete upto the lintel level while the remaining one (A1) was just short of the plinth level.

Planned progress to date is 41.5%. Actual achieved progress is 42.1%.

Bhola-01

A further 150 feet of the property boundary wall was completed this month.

With almost incessant rains daily adding to the problems faced at this site, construction progress remained subdued in July. Warehouse foundation excavation continued as did concreting work for wall foundations, columns and shear walls.

Structural work continued in the ancillary buildings as concrete pour began in sunshades and floor slabs. Masonry work continued upto the lintel level in all three buildings.

Planned progress to date is 36.4%. Actual achieved progress is 32.5%.

Barisal-Q4

Mobilization progressed by 7.5% in July. Some 90,000 cubic feet of various types of fill were set in place and a further 360 feet of the barbed wire fence was completed. Slope protection in the form of grass sodding was added to the extent of 2,000 square feet. Riverbank protection using brick gabions progressed to an additional 3,700 square feet.

Warehouse activities included continued concrete pour in wall foundations and columns. Shear wall concrete pour was initiated.

The ancillary buildings were complete upto the roof slab level this month. Work activities in July included concrete pour in sunshades, roof slabs and floor slabs. Masonry work for the exterior walls showed good progress.

Planned progress to date is 36.5%. Actual achieved progress is 40.8%.

1.2 PLANT AND EQUIPMENT

<u>Site</u>	<u>Description</u>	<u>No.</u>	<u>Description</u>	<u>No.</u>
Comilla-I1	Payloader	1	Pick-up	2
	Vib. Roller	1	Dump Truck	1
	Tractor	1	Carro Truck	1
	Air Compressor	1	Jeep	1
	Concrete Vibrator	1	Welding Machine	1
	Generator	1	Concrete Demper	1
Daudkandi-I3	Mixer Truck	2	Water Pump	2
	Generator	1	Concrete Vibrator	7
	Soil Compactor	1	Pick-up	1
Feni-H1	Payloader	1		
Mymensingh-C2	Crane	1	Bar . Cutter	1
	Concrete Mixer	1	Concrete Dumper	1
	Vibrator	1	Welding Machine	1
Madhupur-D1	Concrete Mixer	1	Trolley	1
	Water Pump	2	Vibrator	3
	Generator	1	Welding Machine	1
	Crane	1	Payloader	1
	Re-bar .Cutter	1		
Melandah Bazar-C4	Bulldozer	1	Generator	1
	Water Pump	1	Payloader	1
	Concrete Mixer	1		
Netrakona-B2	Shovel Tractor	1	Payloader	1
	Mixer Truck	1	Generator	1
	Crane	1	Conveyor Belt	1
Barisal-Q4	Vibrator Compactor	1	Tire Roller	1
	Bulldozer	1		
Bhola-Q1	Water Pump	2	Generator	2
	Crane	1	Batching Plant	1
	Payloader	1	River Truck (Roat)	1
	Mixer Machine	1	Vibrator	3
	Welding Machine	1		

2. ZONE-II

2.1 GENERAL STATEMENT OF PROGRESS

Santahar-M1

Site Preparation: Filling work for the off-site railway grade was begun and some additional grass sod was put in place for slope protection. Paving work like the concrete road and the warehouse apron area progressed by a small amount this month. Additional fifty linear feet of property boundary wall was constructed.

Warehouse East-1: Two warehouse doors were installed this month.

Ancillary Buildings: The main work activity this month was the finishing work on the floor.

Planned progress to date is 100.0%. Actual achieved progress is 94.0%.

Panchagar-03

The installation of a door and a window in the tally clerk's room was the only work activity accomplished this month.

Similar work, but on a somewhat larger scale, was accomplished in the ancillary buildings in addition to the installation of steel grills.

Planned progress to date is 100.0%. Actual achieved progress is 91.1%.

Dogra-M3

One gatehouse was installed this month and a further sixty feet of the property boundary wall was completed.

No major activity was registered this month in the completed warehouse. Finishing touches were still being given in the structurally completed ancillary buildings. The last bit of brick-masonry work was completed and door and window installation continued. Good progress was made on painting work and it was nearly complete at month's end. A number of bathroom fixtures were also installed in this period.

Planned progress to date is 100.0%. Actual achieved progress is 97.6%.

Shibganj-02

Work did not progress in July and no invoice was prepared for payment. Door and window installation was held up awaiting IECO's approval. Some other finishing work was accomplished but also awaited approval by IECO. Door and window manufacture is complete with the installation work remaining.

Planned progress to date is 100.0%. Actual achieved progress is 95.0%.

Rangpur-L1

Mobilization payments were completed this month as total payments reached 88% of the scheduled mobilization-demobilization amount. Concrete pour continued in the warehouse as the footings and wall foundations were brought near completion by month's end. Concrete pour was initiated in tie beams and canopies. The last portion of compacted sand-fill was placed. The plastic vapour barrier was installed covering more floor area. Concrete pour in the floor slab continued. Masonry work, which started this month, showed good progress.

Planned progress to date is 43.5%. Actual achieved progress is 46.1%.

Mahendranagar-L7

An additional 42,000 cubic feet of on-site material was used for on-site filling.

In the warehouse, a further 50,000 cubic feet of compacted sand fill was put in place in the floor area and concrete pour continued in columns, shear walls, tie beams, canopies and roof slab. More than half of the roof-slab bays were complete by the end of July. Masonry work and warehouse electrification also achieved some progress.

The foundation excavation for one of the ancillary buildings and the lean concrete pour for the foundation "bed" was nearly complete by month's end.

Planned progress to date is 38.5%. Actual achieved progress is 47.2%.

Diaajpur-01

The site entrance gate and the pedestrian gate were installed this month.

Dinajpur-01

The site entrance gate and the pedestrian gate were installed this month.

KDC was unable to accelerate work on the ancillary buildings because the sub-contractor left. The sub-contract for the ancillary buildings had been cancelled previously on IECO's advice.

Planned progress to date is 35.9%. Actual achieved progress is 40.7%.

Charkai-04

Mobilization progressed a further 2.75% on a payment basis.

Warehouse activities included continued concrete pour in the shear walls and columns. Concrete pour was initiated in the roof slab and the floor slab following the installation of the plastic vapour barrier. More than half the roof slab bays had been completed at month's end. Masonry work for the outside walls of the warehouse was also begun. Warehouse electrification progressed by a small amount.

One of the ancillary buildings was completed upto a little over the plinth level this month. Work accomplished included the brick footings and foundation, damproof course and exterior masonry walls.

Planned progress to date is 38.9%. Actual achieved progress is 40.2%.

Atrai-K5

Pile capping progressed to near completion in the warehouse area. The foundation work for two of the ancillary buildings was begun. Progress on the pontoons registered 95% in this month.

Planned progress to date is 51.7%. Actual achieved progress is 45.4%.

2.3 PLANT AND EQUIPMENT

<u>Site</u>	<u>Description</u>	<u>No.</u>	<u>Description</u>	<u>No.</u>
Santahar-M1	Payloader	1	Dumn Truck	3
	Generator	3	Pick-up	2
	Concrete Dumper	1	Jeen	1
	Excavator	1	Tractor	1
Bogra-M3	Mixer Truck	2	Concrete Dumper	1
	Generator	1	Dump Truck	2
	Air Compressor	1	Pick-up	1
	Tractor	1	Concrete Vibrator	2
	Mixer	1	Water Pump	3
	Trolley	10	Welding Machine	1
	Concrete Pump	1		
Panchagar-03	Vibrator Roller	1	Water Pump	2
	Generator	1	Soil Compactor	1
	Pick-up	1	Tractor	1
	Payloader	1	Concrete Dumper	1
	Mixer Truck	2		
Rangpur-I1	Vibrator Roller	1	Pick-up	1
	Generator	1	Payloader	2
	Dump Truck	2	Concrete Vibrator	2
	Trolley	1		
Mahendranagar-I7	Welding Machine	1	Air Compressor	1
	Bar Cutter	1	Payloader	1
	Pick-up	1	Vibrator	1
	Winch	1	Water Pump	1
	Mixture Truck	1	Dump Truck	1
	Generator	1	Concrete Dumper	1
	Batching Plant	1		
Dinajpur-01	Pick-up	1	Water Pump	2
	Tractor	1	Electric Saw	1
	Concrete Dumper	1	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-04	Bulldozer	1	Dump Truck	2
	Tire Roller	1	Generator	1
	Water Pump	1	Jeen	1
Atrai-K5	Pick-up	1	Water Pump	1

3. ZONE-III

3.1 GENERAL STATEMENT OF PROGRESS

Muladuli-N1

A further 61,000 cubic feet of imported fill was put in place on site this month. The gatehouse was installed and a small portion of the property boundary wall was further completed.

In the warehouse, July activities included completion of the installation of louvers, vents and windows and the application of the last few patches of paint.

In the ancillary buildings the main finishing activity was the installation of doors and windows. Sanitary and plumbing work registered good progress but electrical work remained suspended due to lack of information on the incoming power source.

Planned progress to date is 96.0%. Actual achieved progress is 96.0%.

Chudanga-T1

An additional construction of 100 lf of boundary wall was the only external site-work activity this month. In the warehouse the application of the last coat of paint on the structure was completed. Ancillary buildings saw the initiation of door and window installation along with the completion of white wash/painting work. Sanitary and plumbing fixtures were installed but no further work was done on electrical utility wiring and fixtures as the incoming power line has yet to be located.

Planned progress to date is 100.0%. Actual achieved progress is 93.9%.

Annura-K2

About 2000 square feet of paving work was accomplished this month. One entrance gate and one pedestrian gate were installed and some additional sod was put in place for slope protection.

In the warehouse, the floor slab was completed as the last portion of the compacted sand fill was put in place along with the plastic vapour barrier. Finishing work also continued as two doors were installed and a substantial portion of the painting work was initiated and completed this month.

The ancillary buildings were structurally completed to roof slab. Masonry work continued along with plastering.

Planned progress to date is 71.4%. Actual achieved progress is 84.0%.

Satkhira-P1

In this nearly complete site, the only work progressed in July on the warehouse was concrete pour in the last remaining portion of the floor slab and some painting work on the warehouse itself.

In the ancillary buildings too, the main work done was the completion of the floor slab and some other finishing work like the installation of doors and windows.

Planned progress to date is 100.0%. Actual achieved progress is 96.4%.

Kushtia-T2

No significant progress was made in site preparation work this month as finishing work proceeded on the warehouse. The installation of warehouse doors, louvers, vents and windows was completed. Painting work was begun and was substantially complete by the end of the month.

Good progress was achieved in the ancillary buildings this month and all the buildings were structurally near-complete at the end of the month under review. Finishing works like roofing and floor work were initiated and a substantial amount was accomplished this month. A modest amount of electrical wiring and fixture installation was also achieved.

Planned progress to date is 100.0%. Actual achieved progress is 96.4%.

Kaliganj-S2

Mobilization progressed by a further 1.48% on a payment basis.

In the warehouse, the last bit of compacted sand fill was put in place and the plastic vapour barrier was installed preparatory to concrete pour to the floor slab now scheduled for August. Some plastering work and the installation of louvers, vents, etc. along with a fair amount of the scheduled painting work was also accomplished.

In the ancillary buildings, finishing activities like plastering and roofing work progressed this month. Some painting work and the installation of steel grills were also completed. A fair amount of electrical utility work was also achieved but progress must be made in arranging for and locating the incoming power line before further work progress in this area can be assured.

Planned progress to date is 81.9%. Actual achieved progress is 79.9%.

Rohanpur-K3

Nearly five thousand square feet of concrete roadway was completed during the period under review. Because of problems encountered due to unexpected sub-strata conditions, KDC could only undertake work on half of the warehouse while the consultant worked out solutions to meet the unexpected physical conditions. In the half of the warehouse already built, all structural areas were complete or nearly complete at month's end with the exception of the roof slab. Even finishing work like plastering and roofing had also begun.

In the ancillary buildings, structural work was in progress with continued concrete pour in sunshades and roof slab. All foundation work was completed and masonry work showed good progress.

Planned progress to date is 51.7%. Actual achieved progress is 45.4%.

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	Concrete Mixer	1	Generator	2
	Pick-up	1	Concrete Dumper	1
	Dump Truck	1	Vibrator Compactor	1
	Water Pump	2	Concrete Vibrator	2
	Payloader	1		
Satkhira-P1	Pick-up	1	Conc. Dumper	1
	Air Compressor	1	Water Pump	1
	Concrete Mixer	2		
Kushtia-T2	Conc. Mixer	1	Conc. Vibrator	2
	Water Pump	1	Tractor	1
Kaliganj-S2	Tractor	1	Water Pump	1
	Conc. Vibrator	2	Concrete Dumper	1
	Dump Truck	1	Mixture Machine	1
	Generator	2	Drilling Engine	1
	Pick-up	1		
Rohanpur-K3	Soil Compactor	1	Generator	1
	Water Pump	5	Tractor	1
	Engine Vibrator	1	Bulldozer	1
	Payloader	2	Jeep	1
	Air Compressor	1	Dump Truck	1
	Welding Machine	1		

OVERALL PROGRESS SCHEDULE

PROJECT: FERTILIZER WEREHOUSE

KOREA DEVELOPMENT CO

ZONE	NO.	SITE LOCATION	% AGE WT.	1983												'84		F
				UPTO	MAR	APR	UP TO MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB		
1	I2	BRAHMAN BARIA	3.11	P		99.5	100											
				A	99		100	100	100									
	I3	DAUDKANDI	3.21	P		68.3	77.5	96	100									
				A	63.3		86.9	95	98									
	I1	COMILLA	3.11	P		80	88	96	100									
				A	71.4		84.5	93.0	97									
	H1	FENI	1.7	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	45.3									
	C2	MYMENSING	1.4	P		43.3	51.2	63.6	78.2	89.1	98.2	100						
				A	3.8		54.9	69.1	93.5									
	D1	MADHUPUR	2.1	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									
O4	MELANDAH BAZAR	3.55	P		29	34.8	39.4	50.5	63.9	70.8	81.8	92.4	96.4	100				
			A	27.2		33.4	43.3	51.9										
B2	NHTRAKONA	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	33.5	38.8										
O1	BHOLA	3.1	P		23.4	25.1	26.9	32.6	38.4	45.4	58.7	75.5	85.9	98.5	100			
			A	23.4		27.5	29.3	33.0										
O2	BARISAL	3.45	P		21	24.8	28.7	36.8	52.2	67.9	81.9	94.1	98.6	100				
			A	16.2		27.5	32	39.5										
2	M1	SANTAHAR	12.71	P		87.5	93	97	100									
				A	80.7		93.2	92.4	93.2									
	M3	BOGRA	6.4	P		98.6	99.5	100										
				A	94.5		94.7	94	96.7									
	O3	PANCHAGAR	2.42	P		80	88	98.0	100									
				A	73.4		86.3	87.2	91.0									
	O2	SHIBGANJ	4.45	P		90.5	96.0	100										
				A	80.5		87.2	95.0	95.0									
	L1	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	42.8									
	L7	MAHENDRANAGAR	6.11	P		20.1	23.7	30.2	38.5	51.2	66.5	79.8	89.6	98.8	100			
				A	15.6		25.3	35.2	48.1									
O1	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	32.1	40.6										
O4	CHARKAI	3.8	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	39.3										
K5	ATRAI	1.34	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	38.9	46.6										
3	N1	MULADUL	3.34	P		72.4	80.0	88.0	96.0	100								
				A	56.7		83.0	91.1	94.7									
	T1	CHUADANGA	4.17	P		83.3	90.0	96.0	100									
				A	75.5		85.9	90.6	95.2									
	K2	AMNURA	3.46	P		43.0	53.7	61.1	71.4	79.7	87.7	96.8	100					
				A	31.5		67.0	76.6	82.9									
	P1	SATKHIRA	2.17	P		81.8	90.0	96.0	100									
				A	75.4		87.1	92.3	96.0									
	T2	KUSHTIA	2.52	P		60.6	69.0	76.0	82.0	90.0	97.0	100						
				A	49.5		68.6	79.3	86.6									
	S2	KALIGANJ	2.56	P		45.2	64.5	74.7	81.9	88.9	92.9	97.6	100					
				A	31.9		56.9	71.1	80.8									
K3	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	44.1										
TOTAL			100															
PROGRESS PLAN																	APPROVAL	
PROGRESS ACTUAL					54.6	60.8	67.2	72.9	78.7	84.7	90.5	95.4	98.8	100			SUBMIT	
				48.8		60.6	66.5	71.8								REVISE		

ORIGINAL
REVISION
ACTUAL

47a

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	43,346.58	1,508,507.00	97.95
Brahmanbaria	1,492,000.00	0	1,492,011.09	100.00
Comilla	2,402,000.00	175,710.06	2,291,199.85	95.39
Mymensingh	710,000.00	69,931.55	564,218.07	79.47
Feni	820,000.00	39,013.70	345,447.00	42.13
Madhupur	1,415,000.00	89,300.42	688,847.30	48.68
Melandah	1,608,000.00	92,089.14	750,612.13	46.68
Netrakona	1,772,000.00	114,294.29	747,110.39	42.16
Barisal	1,660,000.00	121,517.16	704,033.37	42.41
Bhola	2,070,000.00	67,768.94	717,537.38	34.66
<u>ZONE - II</u>				
Santahar	6,095,000.00	55,596.89	5,847,887.31	95.94
Bogra	3,111,000.00	56,369.97	3,005,660.92	96.61
Panchagar	1,160,000.00	42,957.84	1,057,850.63	91.19
Shibganj	2,132,000.00	0	1,969,416.28	92.37
Rangpur	1,664,000.00	111,508.04	767,622.15	46.13
Mahendranagar	2,930,000.00	340,254.64	1,383,489.62	47.22
Charkai	1,835,000.00	177,092.23	729,350.57	39.75
Dinajpur	1,504,000.00	118,975.78	599,371.07	39.85
Atrai	1,600,000.00	78,069.18	655,339.64	40.96
<u>ZONE - III</u>				
Muladuli	1,600,000.00	79,205.63	1,443,888.48	90.24
Chuadanga	2,000,000.00	66,831.25	1,850,976.49	92.55
Amnura	1,670,000.00	122,805.88	1,308,104.35	78.33
Satkhira	1,038,000.00	52,667.73	993,365.30	95.70
Kushtia	1,207,000.00	101,690.15	984,269.34	81.55
Kaliganj	1,274,000.00	111,460.53	936,376.80	73.50
Rohanpur	1,630,000.00	156,029.26	658,536.93	40.40
TOTAL				
(All Sites)	47,939,000.00	2,484,488.84	34,001,029.46	70.92
MATERIALS (NET)	-	(19,103.06)	156,856.99	
ALL SITES	47,939,000.00	2,465,385.78	34,157,886.45	71.25
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
I3-004	18 May 82	Daudkandi - Remove and recompact fill	\$ 49,610.00	\$ 49,485,499.35
D1-005	16 June 82	Madhunur - 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

* Not yet signed and approved.

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CONSTRUCTION CONTRACT CHANGE ORDER STATUS (Continued)

<u>Change Order Number</u>	<u>Date</u>	<u>Description</u>	<u>Change</u>	<u>Contract Amount</u>
I1-012*	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
I3-013*	28 April 83	Daudkandi revised water system Delete D12, 22 & 23 Net	\$ 12,695.78 (19,152.00) (6,456.22)	\$ 48,927,752.62
O3-014*	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 svstem Delete D21, 22 & 23 Net	\$ 13,590.85 (19,152.00) (5,561.15)	\$ 48,920,756.50
O2-016*	28 April 83	Shibgani 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 svstem 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 svstem 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
M1-020*	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

* Not yet signed and approved.

INTERNATIONAL ENGINEERING COMPANY, INC
FORCE REPORT
31 JULY, 1983

A. Dhaka Office

1. K.F. Ahmed	Chief Accountant
2. A.H.M.R. Salam	Accountant
3. A.K. Chowdhury	Expeditor
4. Niranjana Paul	Expeditor
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	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

D. Zone III (Ishurdi)

1. Benjamin Gomes	Admin. Assistant
2. Md. Moazzam Hossain	Driver

* Resigned in July 1983

** Stationed at Dhaka

DEVELOPMENT CONSULTANCY SERVICES LTD.

FORCE REPORT

31 JULY, 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. Emdadul Ghani	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. Moazzam Hossain Sarkar	Land Procurement Office (at BADC)
11. N.C. Lewis	Inspector (Pile Casting Yard)
12. Abdur Rashid Khan*	Inspector (Survey)
13. Rafiqul Islam	Inspector (Electrical)
14. Sk. Zameul Haque	Mat. Lab. Technician
15. Abdul Wahed	Mat. Lab. Technician
16. Rebeka Sultana	Mat. Lab. Technician
17. Akshay Kumar Poy	Draftsman
18. Rafia Akhter	Draftsman
19. Pezaul Karim	Accounts Assistant
20. Aftab Alam	Typist (at BADC)
21. Mojibur Rahman	Mat. Lab. Assistant
22. Abdur Pashid	Mat. Lab. Assistant
23. A. Motaleb	Instrumentman
24. Md. Nizamuddin	Chainman
25. Abul Beshar	Foreman
26. Badruddin	Driver
27. Rahmatullah	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. Jahannara 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. Azmal 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. Daliluddin Biswas	Driver
11. Md. Haider	Driver

Sub-Zone I-B (Mymensingh)

1. Nazrul Islam	Senior Field Engineer
2. Haider Farooq	Field Engineer (Modhupur)
3. Munshi Abu Jaffar	Field Engineer (Melandah)
4. Shafiqur Rahman	Field Engineer (Netrakona)
5. Mohammad Alam	Inspector (Mymensingh)
6. Monowar Ali Khan	Inspector (Madhupur)
7. Zahidul Islam	Inspector (Melandah)
8. Majedur Rahman	Inspector (Netrakona)
9. Md. Abdur Rouf	Mat. Lab. Tech. (Sub-Zone I-B)
10. Md. Shahid Khan	Mat. Lab. Tech. (Sub-Zone I-B)
11. Tajul Islam Khan	Mat. Lab. Asst. (Sub-Zone I-B)
12. Shafique Uddin Ahmed	Mat. Lab. Asst. (Sub-Zone I-B)
13. Khurshid Alam	Mat. Lab. Asst. (Sub-Zone I-B)
14. Abdul Malek Fakir	Driver
15. Md. Yusuf Ali	Driver
16. 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. 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. Alangir (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 Sarkar*	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. Rabindranath Sarkar	Inspector (Atrai)
20. Ejabuddin Patwary	Inspector (Charkai)
21. Shahjahan Sarkar	Mat. Lab. Tech. (Rohanpur)
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. Rezaul Karim	Senior Field Engineer (Sub-Zone III-A)
2. Mohi-uz-Zaman Quazi	Senior Field Engineer (Sub-Zone III-A)
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. Bazlur 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. Md. Zahiruddin	Camp Assistant
33. Tofayel Hossain Gazi	Messenger

* Resigned/was terminated July 1983.

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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		JUNE 1983		Balance
		Dollars	Taka As Dollars	Dollars	Taka As Dollars	
<u>Resident Consultant Related Cost</u>						
A. Salary	1,029,900	836,472.80	-	26,586.13	-	193,427.20
B. Payroll	1,071,100	869,931.73	-	27,649.58	-	201,168.27
C. Overhead						
D. Air Travel	60,000	54,238.09	606.18	(332.50)	-	5,155.73
E. Freight Cost	51,000	31,000.00	3,514.69	-	3,514.69	16,485.31
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	-	141,726.27	-	563.59	29,433.73
K. Furniture & Equipment	77,000	28,464.59	37,952.75	-	134.98	10,582.66
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	-	7,856.10	-	395.92	10,681.90
	\$ 2,651,159	1,872,244.28	212,675.34	53,903.21	4,609.18	566,239.38
Say	\$ 2,651,000					566,080.38

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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>JUNE, 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>59,867.26</u>				<u>968.74</u>
Say	\$ <u>61,000</u>					<u>1,132.74</u>

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USAID IMPROVEMENT GRANT
IECO CONTRACT 9074

CONSULTANCY EXPENDITURE BUDGET

APPENDIX III
Sheet 3 of 4

Schedule III	Budget	JOB TO DATE		JUNE, 1983		Balance
		Dollars	Take As Dollars	Dollars	Take As Dollars	
<u>A. Office Rental, Equipment and Maintenance</u>						
1. Dhaka Office	52,860	-	52,701.01	-	486.88	158.99
2. Area Office Including Lab.	25,450	-	22,463.42	-	789.05	2,986.58
3. Furniture & Equipment	55,800	15,331.32	52,295.92	-	56.85	(11,827.24)
4. Office Supplies & Stationery	40,125	12,380.44	26,694.98	-	305.52	1,049.58
5. Reproduction Cost	54,900	383.88	51,215.92	-	207.62	3,300.20
6. Communication Cost	13,050	60.00	10,164.74	-	73.84	2,825.26
<u>B. Vehicle Operation & Maint.</u>						
1. Vehicle Rental	11,250	-	12,049.13	-	-	(799.13)
2. Vehicle Operation & Maintenance	255,050	-	220,490.23	-	5,621.34	34,559.77
<u>C. Direct Hire Local Admin. Personnel</u>	130,900	-	126,826.69	-	3,912.06	2,073.31
<u>D. Soil Testing Charges</u>	33,000	-	29,996.53	-	399.63	3,003.47
<u>E. Subcontract DCS (Table 6R)</u>	993,450	-	744,410.88	-	33,101.51	249,039.12
<u>F. Local Travel</u>	23,500	-	17,684.94	-	1,433.78	5,815.06
<u>G. Misc. Field & Office Expenses</u>	18,000	25.00	13,926.98	-	135.07	4,048.02
	\$ 1,707,335	28,180.64	1,382,921.37	-	46,523.15	296,232.99
Say	\$ 1,707,000					295,897.99

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USAID IMPROVEMENT GRANT

IECO CONTRACT 9070

APPENDIX III

Sheet 4 of 4

CONSULTANCY EXPENDITURE BUDGET

Schedule IV	Budget	JOB TO DATE		JUNE, 1983		Balance
		Dollars	Taka As Dollars	Dollars	Taka As Dollars	
<u>IFCO Headquarter Related Cost</u>						
A. Salaries	93,300	94,879.23	-	1,228.44	-	(1,579.23)
B. Payroll Cost	:					
C. Overhead Cost	113,830	115,511.22	-	1,498.70	-	(1,681.22)
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	12,011.78	-	131.80	-	7,488.22
G. Reproduction Cost	10,000	3,284.25	-	-	-	6,715.75
H. Bond Cost & Commission	5,000	2,684.08	-	-	-	2,315.92
	<u>\$ 267,230</u>	<u>260,807.86</u>	<u>-</u>	<u>2,858.94</u>	<u>-</u>	<u>6,422.14</u>
	✓ <u>267,000</u>					<u>6,192.14</u>
<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. Materials Lab.	26,000	21,730.30	12,955.95	-	-	(8,686.25)
5. Minor Equipment, Tools and Spare Parts	29,000	22,266.13	210.23	(302.68)	-	6,523.64
B. <u>Shipping, Insurance and Clearance Costs</u>						
	77,600	59,547.54	7,539.00	-	-	10,513.46
	<u>330,000</u>	<u>208,343.49</u>	<u>44,753.38</u>	<u>(302.68)</u>	<u>-</u>	<u>76,903.13</u>
<u>Schedule VI</u>						
Fixed Fee	501,000	442,866.69	-	7,266.67	-	58,133.31
	<u>\$ 5,517,000</u>	<u>2,872,310.22</u>	<u>1,640,350.09</u>	<u>63,726.14</u>	<u>51,132.33</u>	<u>1,004,339.69</u>

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 Total Expenditure to Date = 4,512,660.31
 Percent of Budget Spent to Date = 81.80%
 Contract Time Elapsed = 86.80%