

**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. 49

OCTOBER 1983

CONSULTING
ENGINEERS

INTERNATIONAL ENGINEERING COMPANY, INC.

A MORRISON-KNUDSEN COMPANY

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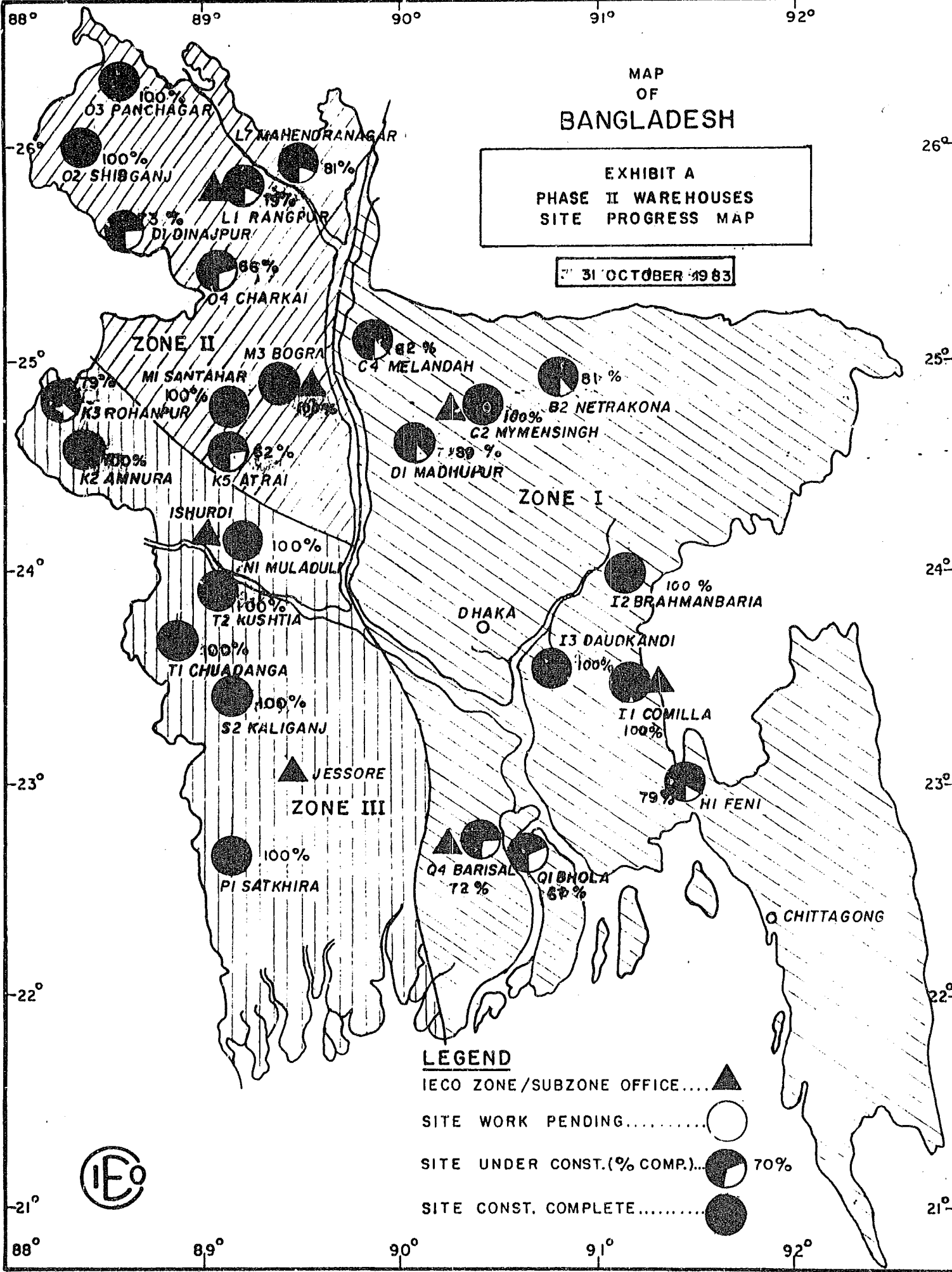
INTERNATIONAL ENGINEERING COMPANY, INC.

A MORRISON-KNUDSEN COMPANY

MAP OF BANGLADESH

EXHIBIT A
PHASE II WAREHOUSES
SITE PROGRESS MAP

31 OCTOBER 1983



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

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 MONTH OF OCTOBER, 1983
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BANGLADESH AGRICULTURAL DEVELOPMENT CORPORATION
ENGINEERING CONSULTANCY SERVICES CONTRACT
FOR BAGGED PRODUCT FERTILIZER
WAREHOUSE PROJECT

INTERNATIONAL ENGINEERING COMPANY, INC.
CONSULTING ENGINEERS

MONTHLY PROGRESS REPORT NO. 49
FOR THE PERIOD OCTOBER 1-31, 1983

1. GENERAL

Construction activity during the month of October increased considerably over the previous month and during the month the Engineer was able to certify the substantial completion of the following nine sites:

Zone II

Panchagar - 4,000 Tons
Santahar - 22,000 Tons
Shibganj - 10,000 Tons

Zone III

Muladuli - 5,000 Tons
Chuadanga - 7,000 Tons
Amnura - 6,000 Tons
Kushtia - 3,000 Tons
Satkhira - 3,000 Tons
Kaliganj - 4,000 Tons

As of the end of October a total of 14 sites have been certified leaving 12 sites remaining to be completed by the end of January 1984. In Zone I except for the Barisal, Bhola and Feni sites all other remaining sites, i.e. Netrakona, Melandah, and Madhupur were ahead of schedule. In Zone II the progress of work was found to be very good at all sites except Atrai and Charkai which were 12.3% and 8.8% respectively behind schedule. Special expediting methods are required by KDC to increase the production of works at these two sites in order to meet the end of January completion date. In Zone III only Rohanpur site remains to be completed and the works there are ahead of schedule on both the godown and the ancillary buildings but slightly behind schedule on the site works. The site works involving rail-road sidings, drainage and gabion slope protection are the main activities that still remain to be completed.

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

The following are the summations of progress at the end of October for each of the three Zones:

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 86.4% against 88.0% scheduled. Four of the sites are now completed and of the six still under construction only the Feni, Barisal and Bhola sites are behind schedule by 6.5%, 9.7% and 8.4% respectively. These sites are all critical to meet the end of January completion schedule.

The nine Zone-II sites in the northwest (see map) represent 46.0% of the project construction cost of the Phase II program and the sites are 88.4% complete against the 89.3% scheduled. Panchagar, Shibganj and Santahar were all certified complete during October. In general, during October very good progress was achieved at Rangpur, Dinajpur and Mahendranagar while the Atrai and Charkai sites have continued to lag the 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 97.6% complete against the 96.4% scheduled. Six of the seven sites in the zone were certified, complete during the month and only Rohanpur remains to be completed; and it is 79.2% complete against 81.9% scheduled.

Overall, the Phase II construction program is 89.8% complete against the 90.5% scheduled. Progress in October was 5.8%, ahead of the 5.6% scheduled. In the limited time remaining a concentration of effort at the several lagging sites will be necessary if the end of January, 1984 completion date is to be met.

With completion of nine additional sites and further partial consolidation of field activities in October, DCS staff was reduced from 123 to 112 personnel, 10 technical and 2 support personnel being released, and 1 person being appointed. IECO local staff remained at 15 personnel. DCS and IECO force reports are appended.

2. CONTRACT ADMINISTRATION

Change Orders

- Twenty-seven Change Orders are now at BADC for review and approval. See Section 11 of this report for details.
- Material prepayments made to KDC were reconciled and closed.
- Temporary buildings in Zone III to be retained were identified. KDC was asked to price temporary buildings for negotiation with BADC.
- KDC's request for a waiver for previous use of a Korean vessel was denied by BADC.

3. CONTRACT EXPENDITURES

October, 1983 Taka expenditures reimbursable by USAID were:

Local Salary	54,218.00
Office Supplies & Expenses	9,848.50
Dhaka Office Rent/Maint./Utilities	17,632.70
Area Office Rent/Maint./Utilities	14,757.26
Vehicle Operation	102,269.87
Soils Lab. Works	726.00
House Rent/Maint./Utilities	123,465.83
Demob. Air Freight	21,293.80
Processing Cost (Export)	700.00
DCS	731,648.31
Local Travel	29,898.01
Expat Perdiem & Hotel	7,430.00
Miscellaneous	3,599.91

1,117,488.19

Expense reimbursable through BADC's Duties & Taxes Account was nil.

September, 1983 expenditure budget is appended.

4. EXPATRIATE STAFF - IECC

In-country expatriate staff during October:

F.E. Isprig	Project Manager
C.F. Leonhardt	Chief Field & Construction Engineer
D. Lovely	Contract Administrator
M. Lim	Construction Engineer
S.J. Hewick	Construction Engineer
H. Tchen	Construction Engineer

5. MEETINGS

3 October BADC/KDC Monthly Progress Meeting No.24.
USAID/IECO Topics were: Construction Schedule and Site Turnovers,
Bhola Land Dispute, Site Progress and Discussion,
Power Supply and Roof Slope.

6. PENDING ACTIVITIES AND ACTIVITIES IN PROGRESS

6.1 For Action by BADC

a. Site clearance/obstruction removal activities:

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

b. Sign outstanding Change Orders.

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

6.2 For Action by IECO

a. Award purchase orders (contracts) for sleeper procurements after necessary approvals have been obtained. Prepare Tender Documents for rebid of Invitation No. 6 and for Code 935 rebid of rail accessories. Negotiate Special Diamond Crossing and Fishplate purchases.

7. ENGINEERING ACTIVITIES

7.1 Materials Engineering

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

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

Brick samples were tested at Dhaka laboratory for possible use at Netrakona, Melandah, Barisal and Bhola.

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

7.2 Office and Field Engineering

Site plan of Dinajpur was modified incorporating barbed wire fence in place of boundary wall. Site location control drawing and site plan of Madhupur were modified relocating the property line on northern end. Surface drainage channel drawings for Rohanpur and Feni were modified. Location log for record as built was made for Atrai, Mahendranagar, Dinajpur, Charkai and Rangpur. Stair details in general drawing were clarified.

During the month, as built site plans were made for Mymensingh, Panchagar, Shibganj, Santahar, Kaliganj, Kushtia and Amnura sites.

7.3 Rail Siding Construction Arrangements

The Project Implementation Letter (PIL) for procurement of materials and siding construction was reviewed, modified and signed by BADC and USAID.

BR's cost estimates and resulting FAR amounts were reviewed and approved by BADC.

A waiver was issued by USAID to allow Invitations for Bid to be issued for 90A rail from Code 935 countries.

BADC approved IECO's recommendation of suppliers for hardwood sleepers and special hardwood sleepers for turnouts. Bids and Bid Bonds from these two vendors were extended. Actual procurement cannot be made until BR concurs with the PIL.

Quotations for Special Diamond Crossings were reviewed and a vendor selected for final purchase negotiation.

Compound/Combination Fishplates quotes were opened 18 October, reviewed, and a vendor selected for negotiation.

CONSOLIDATED REPORT
MATERIALS TESTING

Sheet 1 of 2

Laboratory Reporting:
Dhaka

Reporting Period:
From 26 Sept. To 25 Oct.

CONCRETE		No. of Tests at		Samples Passed at 28 days	Remarks
Compressive Strength Test Site	Location	7 days	28 days		
Barisal	Roof slab of godown, bond beam, godown suspended, roof slab, canopy & pontoon yard, pontoon servicing road, roof slab, roof concreting & penthouse slab of A1 bldg.	16	14	12	Two lab-cured cyl. failed from roof slab & penthouse slab of A1 bldg. Field cyl. tested and passed.
Feni	Tie beam & canopies, floor slab of godown	5	10	7	Three lab-cured cyl. failed from canopies, tie beam & roof slab. One field cyl. tested and passed. Requested to send two field cyl. for test.
Bhola	Shear wall, int. & ext. col., roof slab of godown, wall & platform foundation, roof slab of public toilet, A1 & B1 bldgs., lintel and sunshade of A1 bldg., stair of B1 bldg. & bond beam.	15	17	15	One lab-cured cyl. failed from roof slab of B1 bldg. and another from shear wall & ext. col. Field cyl. tested and passed. Also one field cyl. tested from platform foundation which was requested to send in last reporting period.

CONSOLIDATED REPORT
MATERIALS TESTING

Sheet 2 of 2

Laboratory Reporting:
Dhaka

Reporting Period:
From 26 Sept. To 25 Oct.

Materials & Tests	Particulars	Tests Total	Tests Passed	Remarks
<u>BRICK</u> Absorption Test Compressive Strength Test	Frog Marks - SBM, EBM	2	2	Frog Marks passed: SBM(C4, B2), EBM(Q1, Q4)
<u>BRICK (STACK TEST)</u> Compressive Strength Test	Frog Marks - NAZ-83, RIMS, GAZI-82, RBC, EBM, SBM	62	12+50	12 stacks passed: 3 NAZ-83(Q4), 2 RBC(C4, B2), 3 EBM(C4, B2), 1 SBM(C4, B2) 3 RIMS(Q1) 50 stacks need resorting: 6 NAZ-83, 20 RIMS, 2 GAZI, 4 RBC, 7 EBM, 11 SBM
<u>FINE AGGREGATE</u> Gradation Test		6	6	Test passed: 6(H1)
Field Density Test	Sand fill	135	104	Tests passed: 36(Q4), 8(Q1), 60(H1)
<u>COARSE AGGREGATE</u> Gradation Test		3	3	Tests passed: 2(Q1), 1(H1)
<u>IMPORTED MATERIALS</u> Gradation Test Atterberg Limit Test Natural M/C Specific Gravity Test Field Density Test	Platform of godown	16	16	Tests Passed: 16(H1)
<u>SPECIAL</u> Cement Test				

CONSOLIDATED REPORT
MATERIALS TESTING

Laboratory Reporting:
Mymensingh

Reporting Period:
From 26 Sept. To 25 Oct.

CONCRETE		No. of Tests at			Samples Passed at 28 days	Remarks
Compressive Strength Test Site	Location	7 days	14 days	28 days		
Madanpur	Road, ancl. bldg. & slab on grade	8	-	20	11	Nine lab-cured cyl. failed. Six field cyl. tested and passed and the rest three field cyl. requested to send for test.
Melandah	Roof slab of A1 bldg, floor slab of B1, C1, A1 bldgs, platform of godown	9	-	10	10	All passed
Netrakona	Roof slab of godown, roof & floor slab of ancl. bldg, column & tie beam	19	-	21	21	All passed
Materials & Tests		Particulars		Tests Total	Tests Passed	Remarks
BRICK (STACK TEST)		Frog Marks -				
Compressive Strength Test		AAS, ZAMAN, BIPASHA		44	27 + 17	27 stacks passed: 25 AAS(C4), 2 MSA(R2) 17 stacks need resorting: 13 AAS, 1 ZAMAN, 1 BIPASHA, 2 MSA
FINE AGGREGATE						
Gradation Test						
Lab. Compaction Test				1	-	Tested for B2
Field Density Test		Godown sand fill		76	74	Tests passed: 34(C4), 40(B2)
COARSE AGGREGATE						
Gradation Test						
Unit Weight Test						
Specific Gravity Test						
IMPORTED MATERIALS						
Gradation Test						
Field Density Test		Engineered fill		14	12	Tests passed: 6(C4), 6(B2)

CONSOLIDATED REPORT
MATERIALS TESTING

Laboratory Reporting:
Rangpur

Reporting Period:
From 26 Sept. To 25 Oct.

<u>CONCRETE</u>		No. of Tests at			Samples Passed at 28 days	Remarks	
Compressive Strength Test Site	Location	7 days	14 days	28 days			
Rangpur	Godown, road, ancl. bldg.	18	-	24	24	All passed	
Dinajpur	Godown, road, ancl. bldg.	3	7	25	25	All passed	
Charkai	Godown, road, ancl. bldg.	8	13	21	19	Two lab-cured cyl. failed. One field cyl. tested & failed. Hammer test to be done. Requested to send another field cyl. for test.	
Mahendranagar	Godown, road, ancl. bldg.	15	5	20	18	Two Lab-cured cyl. failed. Requested to send field cyl. for test.	
<u>Materials & Tests</u>		Particulars			Tests Total	Tests Passed	Remarks
<u>BRICK (STACK TEST)</u>		Frog Marks -					41 stacks passed: 11 DBM(D4), 5 JC(L7), 22 RC(L1), 3 DBM(O1), 2 S&H-83(O1)
Compressive Strength Test		DBM, JC, RC, MH, DBM, S&H-83			136	43+78	78 stacks need resorting: 11 DBM, 8 JC, 41 RC, 1 MH, 17 DBM
<u>FINE AGGREGATE</u>							
Gradation Test		Mortar sand			3	2	Tests passed: 1(O4), 1(L7)
Field Density Test		Sand fill			141	141	Tests passed: 49(L7), 47(L1), 45(O1)
<u>IMPORTED MATERIALS</u>							
Field Density Test		Engineered fill			501	501	Tests passed: 46(O4), 122(L7), 240(L1), 83(O1), 10(K5)
<u>SPECIAL</u>							
Cement Test							

CONSOLIDATED REPORT
MATERIALS TESTING

Laboratory Reporting:
Ishurdi

Reporting Period:
From 26 Sept. To 25 Oct.

<u>CONCRETE</u>		No. of Tests at			Samples Passed at 28 days	Remarks	
Compressive Strength Test Site	Location	7 days	14 days	28 days			
Rohanpur	Slab on grade, beam, ancl. bldg. platform, road pavement, etc.	6	4	15	13	Two lab-cured cyl. failed but field cyl. tested and passed.	
Atrai	Roof slab of g down, beam, shear wall, platfor column, lint etc.	8	-	12	12	All passed	
<u>Materials & Tests</u>		<u>Particulars</u>			<u>Tests Total</u>	<u>Tests Passed</u>	<u>Remarks</u>
<u>BRICK (STACK TEST)</u>		Frog Marks -					15 stacks passed from
Compressive Strength Test		SARKER (K3)			40	15 + 25	25 stacks need resorting.
<u>FINE AGGREGATE</u>							
Gradation Test							
Lab. Compaction Test							
<u>COARSE AGGREGATE</u>							
Gradation Test							
Unit Weight Test							
Specific Gravity Test							
<u>IMPORTED MATERIALS</u>							
Gradation Test							
Specific Gravity Test							
Lab. Compaction Test							
Field Density Test		Engineered fill			116	116	Tests passed: 116 (K3)
<u>SPECIAL</u>							
Cement Test							

8. CONSTRUCTION SURVEILLANCE

8.1 General

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

Site-specific performance in October was as follows:

8.2 Zone I (Comilla)

C2 Mymensingh

All major works at Mymensingh site have been completed satisfactorily and the certificate of completion was issued during the month of September. Only minor works, such as, final coat of outside painting, installation of wooden truck dock bumpers and other minor works remain to be done during the six months maintenance period.

Mr. F.E. Isgrig, Project Manager IEEO, inspected the site on 13th October 1983 and based on his inspection and under his direction a letter was issued to District Manager, Fertilizer, BADC, Mymensingh requesting him to take possession of the warehouse. Accordingly the District Manager, Fertilizer, BADC, Mymensingh, took over possession of the warehouse formally on 26th of October on behalf of BADC.

D1 Madhupur

During October approximately 33 cy of concrete was poured on slabs on grade to bring that work to 100% complete against 100% planned. Approximately 1856 sf of neat cement finishing was completed on the godown to bring that work to 73% complete. Installation of doors, louvres, vents and windows were 100% completed, ahead of schedule. Work on the installation of electrical fittings was in progress and about 60% completed by the end of the month.

On site work, about 200 lf of wire fence was completed, while 500 lf of boundary wall was constructed to bring that work to 75% complete against 100% scheduled. Construction of guardhouse and entrance gate was started and was in progress by the end of the month.

On the ancillary buildings, plastering, sanitary, plumbing and electrical work were in progress, while the installation of doors and windows were completed. The overall work on the ancillary buildings stood at 59.5% complete against 80% planned.

During October 9.9% progress was achieved against 9.0% planned, while the overall progress of the site work at the end of October was 88.8% complete against 85.8% scheduled. The progress of the site work was

ahead of schedule last month and continues ahead by 4.0%. During last few days of the month the ancillary building subcontractor failed to produce much progress which has resulted in the fallback on schedule. KDC is now planning to take over the sub-contractor's work and will complete the remaining works.

This site is scheduled for completion in January 1984.

C4 Melandah Bazar

By the end of October, 40 cy of concrete was poured on slabs on grade to bring that work to 100% complete. In addition, 6950 sf of temporary brick floor was placed to bring that work to 20% complete against 100% planned. The remaining 1738 cf of compacted sand fill under floor was placed to bring that work to 100% complete against 100% scheduled. Approximately 173 sf of masonry wall was constructed to bring that work to 100% complete against 100% planned. Some 6786 sf of plastering was completed during the month bringing the work to 100% complete against 60% planned, while 1820 sf of neat cement finishing was placed and is now 100% complete. During the month, installation of doors, louvres, vents and windows were completed without glass panes and painting, while bituminous roofing works were started and about 25% completed by the end of the month.

On site work, 80% of aprons were completed during the month, while 50% of the parking area and 100% of road was paved to bring that work to 85% complete against 70% planned.

On the ancillary buildings, all structural works of A1, B1, C1 buildings and public toilet were completed, while plastering, sanitary, plumbing, electrical works and the installation of doors and windows were in progress. The overall work on the ancillary buildings stood at 65% complete against 65% planned, matching the schedule.

Approximately 10.0% progress was achieved in October against 11.0% planned, while the overall progress stood at 82.2% completed against 81.8% planned. This site is scheduled for completion at the end of January 1984.

B2 Netrakona

At the end of October another 66 cy of concrete was poured in the remaining tie beams and canopies to bring that work to 100% complete against 100% planned. In addition, approximately 130 cy of concrete was poured on the roof slab and beams during the month to bring that work to 100% complete against 100% planned. Some 15 cy of concrete was also poured in slabs on grade. Approximately 3022 sf of masonry walls were constructed during the month to bring that work to 100% complete against 100% planned. In addition 10,000 sf of plastering work was completed to bring that item to 67% complete, ahead of schedule. Approximately 546 cy of compacted sand fill was placed during the month to bring that work to 100% complete against 100% scheduled. Also during October approximately another 10,500 sf of temporary brick floor was placed to bring that work to 30% complete against 40% planned. The placement

of bituminous roofing was started and about 30% was complete against 50% planned, while 80% of louvres, vents and windows were installed against 50% scheduled.

On the site work, approximately 335 sf of concrete road was paved during the month to bring that item to 75% complete against 40% scheduled. In addition about 192 lf of boundary wall was completed to bring that work to 70% complete against 100% planned.

On ancillary buildings, the structural work of A1, B1, C1 buildings and public toilet was 100% completed. While plastering, sanitary, plumbing, electrical works were in progress. The installation of doors and windows was completed. The overall work on ancillary buildings now stands at 60% complete against 65% planned by the end of October.

During October, 17.1% progress was achieved against 10.0% planned, while the overall progress of the site work at the end of October was 80.6% complete against 77.7% planned. This site was lagging last month but during October KDC covered up that shortfall as their subcontractor expedited the work on the ancillary buildings. This site is scheduled for completion in January 1984.

Il Comilla

Work at Comilla was substantially completed and certificate of completion was issued during the previous month on 7 September 1983. The works remaining to be accomplished during the maintenance period are: one coat of whitewash to exterior surfaces of godown and ancillary buildings; final grading of R.R. siding; two drainage collection box and chute drop structures; wooden bumper along truck loading docks; and ancillary building door stops. In addition KDC is responsible for maintaining the various systems and facilities in good working order and to correct and/or repair any defects on the works which develop during the period of maintenance.

Of the above mentioned works KDC has completed the following:

1. Provide screen on weep holes of godown.
2. Provide door stops in ancillary buildings.
3. Provide two tower bolts on both back doors of B1 building.

Works taken up during October but not completed:

1. Anchor bolts in godown loading docks grouted but wooden fender not yet fixed.
2. One drainage collection box and drop structure between gate post and the C1 building was started on 24 October 1983.

Railway siding drain work on day work basis with IECO supervision is scheduled to be completed by 15 November 1983.

BADC has taken possession of this site on 3rd October 1983 and is presently occupying the buildings and the godown.

I3 Daudkandi

The site was taken over by BADC on 3 October 1983. However, KDC has performed some of the following maintenance work at this site during October:

1. Water stops on the godown doors were installed.
2. Anchor bolts for wooden bumper on loading dock were grouted but wooden bumper not yet fixed.
3. Some badly cracked wooden planks on the pontoon gangway were replaced.

I2 Brahmanbaria

A report on the remedial repair works for the Brahmanbaria site, dated 21 October was handed over to the IECO Project Manager and Chief Construction Engineer on 23 October elaborating activities that KDC has accomplished. In addition to that KDC has a schedule to test the R.C.C. sewer pipes commencing from 28 October. New and approved plumbing fixtures were being replaced and that work was completed by 26 October 1983. Excavation for exposing the R.C.C. sewer pipes for pressure testing was started on 26 October and KDC has programmed the sewer pipes testing to commence around 28 October. The final coat of outside whitewashing for the godown and ancillary buildings is scheduled for 1 November through 15 November 1983.

H1 Feni

Brick masonry work continued on the truck loading docks walls and the brick work for 6 docks was completed, while 2 top concrete slabs with embedded anchor bolts for wooden bumpers were cast. Brick work for godown walls remains unchanged, 21 spans completed out of 22 spans: one span remaining open for entrance of the payloader equipment with sand and for compaction purposes. Plastering of brick walls was completed on 21 spans for both exterior and interior surfaces. The placement of 15,000 cf sand fill under concrete floor was accomplished during the month and was about 98% complete. The placement of concrete floor slab up to 24 October was only 3 spans or about 35% of the total work. However, the built-up bituminous roofing was 100% complete for godown, C1 and public toilet buildings. On the godown the louvres and vents were mounted, while the painting and glazing remains to be done.

40% of the electrical cables were pulled through conduits in the godown during the month. KDC is planning to take up the road work on the south side of godown during the first part of November.

During October approximately 9.2% progress was achieved against 10.4% planned, while the overall progress of work at the site stood at 79.2% against 85.7%. KDC must expedite completion of the godown floor and placement of the outside concrete pavement in November in order to make up the work deficiency. This site is scheduled for completion at the end of January 1984.

A proposal by BADC to pave the entrance road and the access road around the Phase I godown was approved by USAID and IECO is preparing the necessary drawing and estimates of that work to submit to KDC for implementation by 15 November 1983.

Q4 Barisal

Godown: In October brick masonry walls of the godown were 70% complete against 100% scheduled. About 226 cy of remaining concrete was poured in roof slab and beams to bring that item to 100% complete. Approximately 10% of the electrical works were installed against 80% scheduled. In addition 19 cy of concrete was poured on the canopies and beams to bring that work to 62% complete against 100% scheduled.

Site Development: An additional 50,000 cf of engineered fill was placed and compacted in parking and service road areas to bring that work to 97% complete against 100% scheduled. At month end, about 17,400 sf of service road was paved or about 46% complete against 85% planned.

Ancillary Buildings: Plastering of B1, C1 and public toilet was complete, while plastering of A1 building was almost finished. Construction of concrete floors and the installation of windows and doors and plumbing work were almost complete and in progress. The overall progress of the ancillary buildings at the end of October was 85% complete against 65% scheduled.

During October approximately 7.8% construction progress was achieved against 14.0% planned. The overall status of the site construction at the end of October stood at 72.2% complete against the 81.9% scheduled. Barisal is scheduled for completion by the end of January 1984, however, the contractor must considerably accelerate the work in order to meet that schedule, as this site is 9.7% behind schedule.

Q1 Bhola

Godown: During October all columns and shear walls were 100% complete. Approximately 559 cy of concrete was poured in roof slab and beams to bring that work to 82% complete against 100% planned. At month end, about 15,500 cf of sand fill was placed and compacted inside the godown or about 90% complete against 100% scheduled. In addition, about 887 sf of brick masonry walls were constructed to bring that work to 65% complete against 100% planned, while plastering works were about 15% complete against 30% scheduled.

Site Development: In October construction of boundary wall and fencing was complete to about 42% against the 100% scheduled. Land dispute on north and west sides of the godown has just been resolved by BADC and by the end of October KDC was making preparation to start the work in these areas.

Ancillary Buildings: No progress was made on A1 building due to land dispute with the property owner. The roof slab was poured on B1 building, while finishing works continued on C1 and public toilet buildings. The overall progress of work on the ancillary buildings at the end of October stood at 70% complete against 45% scheduled.

During October about 16.6% site progress was achieved against 16.8% planned. Overall status of sitework at the end of October stood at 67.1% complete against the 75.5% scheduled. October progress was continuously hampered by rain and lack of supplies and materials. Unless significant expediting is done in November, this site will not be completed on schedule by the end of January 1984. KDC plans to send their Senior Zone Superintendent Y.S. Kim to Barisal and Bhola sites to expedite the progress of work.

8.3 Zone II (Bogra)

M1 Santahar

During October final finishing works were progressing towards completion. A final inspection by IECO's Chief Construction Engineer was made on 30 October 83 and the site was found to be essentially complete and a Certificate of Completion was issued to be effected 31 October 1983. The works remaining to be done during the 6 months maintenance period are as follows:

A. All Godowns

1. Placement of window clips and caulking works.
2. Install truck load dock wooden bumpers.
3. Final outside whitewash paint during dry season.

B. Site Works

1. Final grading and clean up work on railroad siding prior to placement of ballast by BR.
2. Repair approximately 50 lf of damage boundary wall on east side of site.
3. Complete drainage works by Day Work basis as per drawings.

C. Ancillary Buildings

1. Repair air pockets on Bituminous roofing during dry season.
2. Final coat of whitewash paint on outside during dry season.
3. Soak well drain pipe for all buildings to be extended to outfall.
4. Provide drain holes on A-I building and B-I building verandahs.
5. Provide final water supply system two consecutive 8-hour use tests as per Specification on all buildings.

M3 Bogra

Brickwork supporting earth embankment on one side of the outfall drain next to the railway line was completed during the month on daywork basis.

The site was certified complete during the month of September and was taken over by BADC on 20 October 83. The works for the six month maintenance period were in progress.

03 Panchagar

The site was inspected by IECO's Chief Construction Engineer on 20 October 1983. A list of outstanding items of work to be done during the maintenance period was given to the KDC Zonal Superintendent at that time. A Certificate of Substantial Completion was issued to KDC effective from 30 October 1983 and the six month maintenance period works were in progress as of the end of October 1983.

02 Shibganj

During October KDC was performing the final finishing works towards completion of the site. A final inspection by IECCO's Chief Construction Engineer was scheduled on 31 October 83, and the site was found to be essentially complete and a certificate of completion was issued to KDC effective 31 October 1983. The works remain to be done during the 6 months maintenance period are as follows:

A. Godown

1. Final coat of outside paint during dry season.
2. Install window clips and caulking as necessary.
3. Add wooden truck bumpers to all truck loading docks.
4. Weep hole screens to be replaced with specified type.

B. Site Works

1. Perform final railroad siding grading and clean-up before placement of ballast by B.R.
2. Add three weep holes per bay to the section of the boundary wall which is adjacent to the R.R. siding.

C. Ancillary Buildings

1. Provide final outside paint to all buildings during dry season.
2. Repair all air pockets of bituminous roofing during dry season on all buildings.
3. Provide drain holes on all verandahs of the A-I and B-I buildings.
4. Perform the final water system two 8-hour consecutive use tests as per Specification.

01 Dinaipur

Site Preparation: The remaining service road around the godown was completed during the month, with the paving of another 23,999 sf. Approach road subgrade preparation continues to be held up due to lack of supplies and materials. KDC started removing copings of boundary walls in preparation for rectification works to follow. On the back portion of the site, the boundary walls were collapsing due to surcharge of filling materials against the walls; this work requires rectification. Drawings are scheduled to be issued to replace this section with barbed wire fence.

Godown: The remaining concrete footings for truck platforms were completed, including all masonry work, while the plastering work was started during the month on the inside walls of the godown, and approximately 5,000 sf completed. Steel louvres and windows were installed, except for installation of glass panes, caulking and painting works. The built-up bituminous roofing was 100% completed during the month.

Ancillary Buildings:

On the A1 building, the fourth flight of stairs, the water tank structure and the ground floor slab were all poured during October. In addition the construction of the parapet wall was completed.

On the B1 building, the roof slab and the penthouse roof were 100% complete, as well as, the parapet walls.

The bituminous roofing on all the ancillary buildings was completed during October.

The overall status of ancillary buildings stood at 31.3% complete against 65.0% scheduled for the end of October.

Sanitary, Plumbing and Electrical Works:

No activity was recorded for plumbing and sanitary work during the month. Electrical conduits were placed in the ancillary buildings while sixteen ceiling light fixtures were also installed in the godown.

At Dinajpur, during October, 13.4% progress was achieved against 15.0% planned, while the overall work at this site stood at 73.2% complete against 67.8% planned. Godown works are ahead of schedule, while ancillary building works continue to lag behind schedule. KDC must accelerate the ancillary building works in order to meet the targetted end of January 1984 completion date.

04 Charkai

Site Preparation: Construction of access road started during the month of October and some 308 lf completed. The total road area paved during October amounted to 9,182 sf which is about 90% of the godown service road. In addition the boundary wall construction progressed another 650 lf.

Godown: Concrete footings for remaining platforms were all completed and the casting of tie beams and canopies were also completed except for the last 8 numbers. In addition the casting of 221 lf of railway platform slab was also completed, while masonry work progressed another 700 sf. The built-up bituminous roofing and expansion joint material on roof was 100% complete by the end of October. However, the plastering work on the godown has not yet started and continues to lag behind the schedule.

Ancillary Buildings:

On the A1 building, progress was slow, with brickwork completed up to the underside of first floor lintel and sunshade, while formwork for lintel and sunshades were in progress.

On the B1 building, progress was also slow, with brickwork completed up to the underside of the roof slab, while formwork for roof was in progress.

On the C1 building, roof casting was completed, however, work on the Public Toilet has not started. Other works that have not started are sand filling for floor slabs and plastering work on the walls.

The ancillary building structures are estimated to be only 19.0% complete against 60.0% planned, considerably lagging the schedule.

Sanitary, Plumbing and Electrical Works:

There was no activity on sanitary and plumbing work during the period. Electrical conduits were being placed in the ancillary buildings, as well as, some 260 lf in the warehouse.

Progress achieved in October was 8.1% against 8.7% scheduled, and the overall completion at this site stood at 65.7% against 74.5% planned. Godown works are essentially on schedule, however, the ancillary buildings continue to lag behind the schedule. The overall works are estimated at one month behind schedule and unless KDC accelerates the work, they will not be able to meet the scheduled January 1984 completion date at this site.

K5 Atrai

Site Preparation: No work was accomplished on placing fill for the pontoon ramp and exterior parking areas during October due to high river water levels. In addition all other filling work stopped and there was no progress reported. Construction of road pavement started during the month and some 13,324 sf was completed on the south side outside the boundary wall, and on the south and eastern side of the godown. The work on the remaining sections of the boundary wall was in progress.

Godown: Sand filling work within the godown was stopped due to shortage of coarse sand. The final roof slab and beams were completed during the month with 461.2 cy of concrete placed. Plastering work has not started and the godown works are still lagging the schedule.

Ancillary Buildings:

On the A1 building, progress was slow, with brickwork completed for the first floor. Roof formwork has not started, while some plastering work was started on the ground floor.

On the B1 building, the penthouse roof was completed and plastering work was in progress.

On the C1 building and the Public Toilet, the roof was completed and plastering work was in progress.

The estimated progress of works on the ancillary buildings was 26.0% against 50.0% as scheduled on the KDC Bar Chart Schedule.

Sanitary, Plumbing and Electrical Works:

No activity was recorded for sanitary and plumbing works during the month of October, however, electrical conduits were placed in the ancillary buildings, as well as, some 1,335 lf in the warehouse.

During October 10.8% progress was achieved against 13.4% scheduled, and the overall completion stands at 62.1% against 74.4% planned. KDC must accelerate work on the godown, the ancillary buildings and the site works in order to meet the end-January completion schedule. Shortages of coarse sand is holding up the progress of the works. This is the most critical site with respect to meeting the schedule in Zone II.

L1 Rangpur

Site Preparation: Concreting of the access road was almost complete except for two sections where culvert work has not started. During October another 12,765 sf of roadway was paved up to the corner of godown column line A-F, while expansion joints on these road pavements were also completed. In addition the entrance road gate pillars were also erected. During October boundary wall coping was completed for 1000 lf, however, barbed wires have not yet been fixed. Elsewhere the boundary wall works were in various stages of progress.

Godown: Concreting for four truck platform footings were completed and masonry work was in progress. Plastering of the godown walls progressed another 11,309 sf, while built-up bituminous roofing was 100% completed. In addition, seven canopies were completed on the rail siding area and five were completed on the truck loading side, while formwork for remaining two canopies was in progress.

Ancillary Buildings:

On the A1 building, the roof slab was poured and the formwork for the third and fourth flight of stairs was in progress. Sand filling for ground floor slab was completed and work was in progress to pour the floor slab.

On the B1 building, brickwork was in progress on the penthouse walls and the parapet walls were 100% completed. Built-up bituminous roofing was also completed, while the concrete balustrades were poured for the staircases. In addition the placing and compaction of sand fill for floor slab was in progress.

On the C1 building, the floor slab was completed and plastering work was in progress, as well as, the placement of neat cement finish. Built-up bituminous roofing was also 100% completed.

As of the end of October no work has yet started on the public toilet.

The overall progress on the ancillary buildings stood at 31.8% complete against 70.0% planned.

Sanitary, Plumbing and Electrical Works:

No activity was recorded for sanitary and plumbing works during the month, however, PVC electrical conduits were placed in the ancillary buildings and the godown. Interior electrical wiring for the godown including electrical ceiling light fittings were almost 100% complete.

During October 11.0% progress was achieved against 13.5% planned, while the overall completion stood at 79.0% against 76.3% scheduled. This site is on schedule for the godown works but is lagging on ancillary buildings. KDC must accelerate the ancillary building works in order to complete the site by end-January 1984, as scheduled.

L7 Mahendranagar

Site Preparation: Boundary wall construction was in progress with 460 lf completed next to the railroad siding. Road pavement construction progressed another 23,039 sf on the north and western side of the godown and engineered fill placed in the truck and rail siding platforms amounted to 11,000 sf. The gate pillars for road and rail entrance were erected during the month.

Godown: The remaining platform foundations was completed and the brickwork and platform slabs were placed. Steel louvres and windows were installed except for the glass panes, and plastering work was started on the exterior of the godown and approximately 15,500 sf completed.

Ancillary Buildings:

On the A1 building, brickwork was progressing above the lintel and sunshade level on the first floor, while the third and fourth flight staircase formwork was in progress.

On the B1 building, brickwork on the first floor progressed up to the bottom of lintel and sunshade level, while the first and second flight of stairs were completed during the period.

On the C1 building, plastering was in progress and bituminous roofing was completed. In addition the placing of flooring and skirting was also in progress.

As of the end of October work has not yet started on the public toilet. The overall status of progress on ancillary buildings stood at 23.8% complete against 70.0% scheduled as of the end of October.

Sanitary, Plumbing and Electrical Works:

No activity was recorded for plumbing and sanitary work during the month, however, electrical conduits were being placed in the ancillary buildings. No progress was recorded for the electrical works in the godown.

Work accomplished during October for this site was 7.1% against 13.3% scheduled. Overall completion of work stands at 80.9% against 79.8% planned. Godown works are ahead of schedule, however, ancillary building works continue to lag the schedule. KDC must accelerate the work on the ancillary buildings in order to meet the scheduled end-January 1984 completion date.

8.4 Zone III (Ishurdi)

K3 Rohanpur

The placement of bricks for the parking lot was 100% completed and concreting of service road was continued and was about 90% complete at the end of the month.

On the godown, plastering of all walls, installation of all doors, louvers and windows were completed during the period, as well as, installation of the electric wiring. The final lift of sand fill for the western half of godown could not be placed due to lack of sand at site.

On the ancillary buildings, all of the doors and windows have been installed, electric wiring completed. In addition, all of the indoor plumbing except for the fittings had been completed. The laying of outdoor sewer pipes was about 95% completed. Whitewashing of all ancillary buildings was in progress and on-going at the end of the month.

Excavation work for the off-site railroad siding was started and was also on-going.

The river water level dropped approximately 14 feet to elevation 58 [±] during the month and it is expected to drop even faster during the coming month making the area for gabion protective works accessible to the contractor.

Progress at this site during the month of October was 3.9% against a scheduled 10.1%, however, the overall progress now stands at 79.2% against 81.9% planned.

K2 Amnura

The contractor was issued a certificate of completion for this site on 19 October. The only items remaining to be done at this site are the installation of timber bumpers on truck loading platforms, final coat of whitewash on the exterior of godown and all ancillary buildings, installation of power poles and final grading of R.R. siding fill prior to placement of ballast, removal and repair of any air pockets on bituminous roofing.

N1 Muladuli

A certificate of completion for this site was issued on 19 October. Items remaining to be done during dry season are the installation of truck loading dock timber bumpers, final coat of whitewash to the outside of godown and ancillary buildings, final grading of railroad siding fill prior to placement of railroad ballast, removal of any air pockets on bituminous roof and installation of permanent power poles.

P1 Satkhira

A certificate of completion was issued for this site on 19 October. Items remaining to be done during the dry season are the installation of permanent electric lines, timber loading dock bumpers on all truck loading docks, final coat of whitewash on exterior surfaces of godown and ancillary buildings, and removal of any air pockets in bituminous roofing.

S2 Kaliganj

A certificate of completion was issued for this site on 19 October. Items remaining to be done during the dry season are the installation of power poles and electric lines, final coat of whitewashing of all exterior surfaces on godown and ancillary buildings, and removal of any air pockets in bituminous roofing.

T2 Kushtia

A certificate of completion was issued for this site on 19 October. Items remaining to be done during the coming dry season are the installation of permanent electric line, final coat of whitewash to all exterior surfaces of godown and ancillary buildings and removal of any air pockets in bituminous roofing during dry season.

BADC has taken possession of this site on 26 October.

T1 Chuadanga

A certificate of completion was issued for this site on 19 October. Items remaining to be done during the coming dry season are the installation of permanent electric line, final coat of whitewash to the exterior surfaces of godown and all ancillary buildings, provide timber loading dock bumpers along all truck loading docks and removal of any air pockets on the bituminous roofing.

9. CONTRACTOR'S ACTIVITIES

The following are excerpts from KDC's monthly report No. 24 for the month of October 1983.

1. OVERALL PROJECT ACTIVITIES

1.1 GENERAL STATEMENT OF PROGRESS

Overall project completion is estimated to date as 89.8% against a planned 90.5%.

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

Zone - I	Planned	28.5%
	Actual	27.7%
Zone - II	Planned	41.1%
	Actual	40.6%
Zone - III	Planned	20.9%
	Actual	21.5%

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	:	88.3%
Actual Achieved Progress	:	85.8%

ZONE-II (45.96% of Total Project Cost) :

Planned Progress upto current period	:	89.3%
Actual Achieved Progress	:	88.4%

ZONE-III (21.74% of Total Project Cost) :

Planned Progress upto current period	:	96.4%
Actual Achieved Progress	:	99.0%

Certificates of substantial completion have been received for fourteen sites.

Total expatriate staff now equals 103 persons against the original planned estimate of 75 persons.

II. SPECIFIC SITE ACTIVITIES

1. ZONE . I

1.1 GENERAL STATEMENT OF PROGRESS

Feni-H1

Work on the warehouse floor progressed as sand filling and compaction, placement of the plastic vapour barrier and concreting of the floor slab all proceeded simultaneously. Roof weather-proofing was the second major work activity accomplished, with all work in this item complete by month's end.

Roof weather-proofing was also the major activity accomplished in the ancillary buildings.

Planned progress to date is 85.7%. Actual achieved progress is 79.2%.

Madhupur-D1

Work on the brick-laid apron around the warehouse was initiated and substantially accomplished this month. Work on the property boundary wall and the barbed wire fence was also accomplished.

Finishing work continued in the warehouse along with some concreting in the floor slab. Finishing works accomplished include plastering, louver installation, painting and electrical wiring installation.

The ancillary buildings had the major finishing works like door and window installation, installation of sanitary and sewerage lines and electrical utility work.

Planned progress to date is 85.8%. Actual achieved progress is 88.8%.

Melandah Bazar-C4

Substantial progress was achieved on the parking areas and the warehouse aprons this month. The entrance gate was installed and work on the concrete walkway was initiated.

In the warehouse, work on the temporary brick-laid floor was initiated. Some "touch-up" type concreting work was also accomplished. Finishing work like the installation of warehouse doors, louvers and windows (accomplished in their entirety), plastering and pointing and painting work continued apace.

Finishing work like door and window installation and flooring work along with some other finishing work like plastering and painting were among the work items accomplished in the ancillary buildings.

Planned progress to date is 81.8%. Actual achieved progress is 82.2%.

Netrakona-B2

Concrete paving work continued along with work on the property boundary wall.

Warehouse floor work got a good start with over 12,000 square feet of the temporary brick-laid floor completed along with the attendant sand filling, compaction and plastic vapour barrier installation. Also accomplished was complete louver and window installation and roof weather-proofing, the latter also being substantially complete at month's end.

The ancillary buildings were given some major finishing works this month. They include door and window installation, plastering, and installation and placement of sanitary, plumbing and sewerage lines and fixtures. Electrical utility work was accomplished in both the ancillary buildings and the warehouse.

Planned progress to date is 77.7%. Actual achieved progress is 80.6%.

Bhola-01

Two hundred feet of the property boundary wall was constructed and the remaining two entrance gates were also installed. Work on the concrete pavement was initiated and a further 175 feet of the barbed wire fence was set up.

Warehouse construction activities included continued sand filling in the floor area, the near completion of concreting work in the roof slab and substantial accomplishment of brick masonry work. Also accomplished in the warehouse was concreting of bond beams and canopies and the installation of louvers, vents and windows.

The effects of the land ownership dispute leading to a temporary work stoppage in the northern boundary wall portion and the A1 ancillary building were reflected in the overall progress in ancillary building construction. Some concreting of roof slabs and sunshades was all that was accomplished. Better work progress in November has been promised by the sub-contractor.

Planned progress to date is 75.5%. Actual achieved progress is 67.1%.

Barisal-04

Substantial progress registered in concrete pavement construction in the site-work category.

Sand filling continued in the floor area and concreting work in the last of the roof slab bays was accomplished. Concreting of tie beams and canopies was also accomplished this month along with brick masonry work and built-up roofing and flashing work, the latter being more than 50% complete at month's end.

The ancillary buildings had last touches of finishing work in the structural portions and continued work on the main finishing activities like plastering and painting, flooring and sewerage line installation.

Planned progress to date is 81.9%. Actual achieved progress is 72.2%.

1.2 PLANT AND EQUIPMENT

<u>Site</u>	<u>Description</u>	<u>No.</u>	<u>Description</u>	<u>No.</u>
Comilla-I1	Pick-up	2	Jeep	1
	Cargo Truck	1		
Daudkandi-I3	Generator	1	Durper	1
Feni-H1	Payloader	1		
Madhupur-D1	Concrete Mixer	1	Trolley	1
	Water Pump	2	Vibrator	4
	Generator	1	Welding Machine	1
	Durper	1	Payloader	1
Melandah Bazar-C4	Vibrator	1	Generator	1
	Water Pump	1	Payloader	1
	Air Compressor	1	Concrete Mixer	1
	Concrete Durper	1	Rebar Cutter	1
	Compactor	1	Welding Machine	1
	Winch	1		
Netrakona-B2	Shovel Tractor	1	Payloader	1
	Mixer Truck	1	Generator	1
	Crane	1	Conveyor Belt	1
	Sand Compactor	1		
Barisal-04	Vibrator Compactor	1	Welding Machine	1
	Tire Roller	1	Crane	1
	Crane	1		
Dhola-01	Water Pump	2	Generator	2
	Crane	1	Etching Plant	1
	Payloader	1	Vibrator	3
	Mixer Machine	1	Welding Machine	1

2. ZONE - II

2.1 GENERAL STATEMENT OF PROGRESS

Santahar-M1

With the completion of the last remaining finishing work at this, the largest site, IECC certified all works at this site substantially complete with effect from 31st October, 1983.

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

Panchagar-03

The certificate of substantial completion for this site was finally received this past month. According to IECC, the works at this site were substantially complete on October 25, 1983.

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

Shilganj-02

With the sub-contractor expediting work on various items during the month, particularly in the ancillary buildings, this site reached 'substantial completion' status by end-October as expected. IECC mentions 31st October, 1983, as the date on which all works were substantially completed.

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

Pangpur-L1

Work on the concrete pavement around the warehouse and the access road was nearly complete at month's end. Boundary wall construction, initiated in October, was about 25% complete during the reporting time.

The most important warehouse activity was built-up roofing and flashing work. Masonry and plastering work continued with some progress in the concreting of tie beams and canopies also accomplished.

Structural work on the ancillary buildings continued with masonry and concreting work predominating. Finishing activities like plastering and roofing work were initiated in the structurally complete portions.

Planned progress to date is 76.3%. Actual achieved progress is 79.0%.

Mahendranagar-L7

Substantial progress was achieved on the concrete paved areas comprising the access road and the pavement around the warehouse. Work on the property boundary wall was initiated.

Concreting work in the warehouse was nearly complete for all the major items. The installation of louvers, vents and windows was initiated and substantially accomplished. Plastering on the just-completed brick walls was begun and continued at a brisk pace till the end of the month.

The ancillary buildings saw continued structural work in the form of concreting and brick masonry work. By month's end, finishing work had also begun in one of the buildings.

Planned progress to date is 79.8%. Actual achieved progress is 80.9%.

Dinajpur-01

The accomplishment of approximately 70% this month of all concrete paved areas to be constructed (thus bringing this item to near completion) marked site preparation activities in October.

The main warehouse activity accomplished was built-up roofing and flashing (roof weather-proofing) which was completed in its entirety. The installation of louvers, vents and windows was begun and continued. Some warehouse electrification work also registered. Structural work on the ancillary buildings was nearly complete setting the stage for the commencement of finishing work from next month.

Planned progress to date is 67.8%. Actual achieved progress is 73.2%.

Charkni-04

Mobilization progressed to 88% on a payments basis and some more work on the concrete pavement registered. A further 650 feet of the boundary wall was constructed.

The major work accomplished this month was roof weather-proofing in the form of built-up roofing and flashing. Finishing touches on the structural construction work in the form of concreting and masonry was also accomplished in the warehouse.

Structural work continued on all three ancillary buildings.

Planned progress to date is 74.5%. Actual achieved progress is 65.7%.

Atrai-K5

Work on the concrete road was begun and more than 50% was completed before month's end.

The warehouse saw the completion of concrete pour in the last roof slab bay.

Roof slab concreting was nearly complete in all the ancillary buildings at month's end. A small amount of brick - masonry work was also accomplished.

Planned progress to date is 74.4%. Actual achieved progress is 62.1%.

2.3 PLANT AND EQUIPMENT

<u>Site</u>	<u>Description</u>	<u>No.</u>	<u>Description</u>	<u>No.</u>
Santahar-M1	Payloader	1	Dump Truck	3
	Generator	3	Pick-up	2
	Concrete Dumper	1	Jeep	1
	Excavator	1	Tractor	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-L1	Vibrator Roller	1	Pick-up	1
	Generator	1	Payloader	2
	Dump Truck	2	Concrete Vibrator	2
	Trolley	1		
Mahendranagar-L7	Welding Machine	1	Air Compressor	1
	Bar Cutter	1	Payloader	1
	Pick-up	1	Vibrator	2
	Mixer Truck	2	Water Pump	2
	Generator	2	Dump Truck	1
	Band-saw	2	Concrete Dumper	1
	Grader	2	Batching Plant	1
	Drilling Machine	1		
Dinajpur-01	Generator	1	Water Pump	2
	Pick-up	2	Mixer Truck	1
	Concrete Dumper	1	Vibrator	3
	Payloader	1	Welding Machine	2
	Soil Compactor	1		
Shilganj-02	Pick-up	1	Water Pump	3
	Cargo Truck	1	Concrete Mixer	2
	Concrete Vibrator	2	Welding Machine	1
	Level Machine	1		
Charkai-04	Jeep	1	Back Hoe	1
	Soil Compactor	1	Vibrator	2
	Water Pump	2	Dump Truck	2
	Mixer Truck	1	Generator	1
	Mixer Machine	1	Jeep	1
	Welding Machine	1	Payloader	1
Atrai-K5	Pick-up	1	Payloader	1
	Water Pump	1	Jeep	1
	Dump Truck	1	Tractor	1
	Mixer Truck	1	Generator	2
	Soil Compactor	1	Compressor	1
	Vibrator	2		

3. ZONE - III

3.1 GENERAL STATEMENT OF PROGRESS

Muladuli-N1

A certificate of substantial completion, effective from 14th October, 1983, has been received from IECO after the completion of the last remaining finishing work at this site.

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

Chuandanga-T1

A certificate of substantial completion, effective from 14th October, 1983, has been received from IECO after the completion of the last remaining finishing work at this site.

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

Annura-K2

A certificate of substantial completion, effective from 14th October, 1983, has been received from IECO after the completion of the last remaining finishing work at this site.

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

Satkhira-P1

A certificate of substantial completion, effective from 14th October, 1983, has been received from IECO after the completion of the last remaining finishing work at this site.

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

Kushtia-T2

A certificate of substantial completion, effective from 14th October, 1983, has been received from IECO after the completion of the last remaining finishing work at this site.

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

Kaliganj-S2

A certificate of substantial completion, effective from 14th October, 1983, has been received from IECO after the completion of the last remaining finishing work at this site.

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

Behandpur-K3

Brick paving work dominated site preparation work at Behandpur as works on the parking areas and aprons were accomplished at a fairly fast rate.

Warehouse construction work included sand-filling in the floor area, plastering and the completion of louver and window installation. Similar finishing work also done in the ancillary buildings where door and window installation (inclusive of frames) took place along with the installation of steel grills.

Electrical utility work at both the warehouse and the ancillary buildings continued at a good pace.

Planned progress to date is 81.9%. Actual achieved progress is 79.2%.

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
Annura-K2	Water Pump	1	Generator	2
	Payloader	1	Concrete Dumper	1
Satkhira-P1	Pick-up	1	Conc. Dumper	1
	Air Compressor	1	Water Pump	1
	Concrete Mixer	2		
Kushtia-T2	Water Pump	1	Conc. Vibrator	2
	Tractor	1		
Kaliganj-S2	Tractor	1	Water Pump	1
	Pick-up	1	Jeep	1
Rohanpur-K3	Soil Compactor	1	Generator	1
	Water Pump	5	Tractor	1
	Engine Vibrator	1	Bulldozer	1
	Payloader	2	Jeep	1
	Air Compressor	1	Dump Truck	1
	Welding Machine	1		

OVERALL PROGRESS

PROJECT: FERTILIZER WAREHOUSE

ZONE	NO.	SITE LOCATION	% AGE WT.	1983						
				UPTO	MAR	APR	UP TO MAY	JUN	JUL	A.
1	I2	BRAHMAN BARIA	3.11	P		99.5	100			
				A	98		100	100	100	100
	I3	DAUDKANDI	3.21	P		68.3	77.5	96	100	
				A	63.3		86.9	95	98	100
	I1	COMILLA	3.01	P		80	88	96	100	
				A	71.4		84.3	93.0	97	100
	H1	FENI	1.71	P		28.3	33.9	39.9	47.8	61
				A	22.6		34.7	41.0	46.3	61
	C2	MYMENSINGH	1.48	P		43.3	51.2	63.6	78.2	89
				A	3.8		54.9	69.1	98.5	94
D1	MADHUPUR	2.35	P		22	28.3	37	48	63	
			A	20		30.5	39.1	45.3	62	
C4	MELANDAH BAZAR	3.55	P		29	34.8	39.4	50.5	67	
			A	27.3		33.4	43.3	51.9	61	
B2	NETRAKONA	3.70	P		24.2	30.2	35.7	41.5	53	
			A	19		31	33.5	38.8	52	
Q1	BHOLA	4.32	P		25.1	26.9	32.6	36.4	45	
			A	23.4		27.5	29.3	33.0	44	
Q4	BARISAL	3.48	P		21	24.8	28.7	36.5	52	
			A	18.2		27.5	32	39.5	54	
2	M1	SANTAHAR	12.71	P		87.5	93	97	100	
				A	80.7		98.2	92.4	93.2	99
	M3	BOGRA	6.45	P		98.6	99.5	100		
				A	94.5		94.7	94.8	96.7	97
	O3	PANCHAGAR	2.42	P		80	88	96.0	100	
				A	73.4		86.3	87.2	91.6	92
	O2	SHIBGANJ	4.45	P		90.5	96.0	100		
				A	80.5		87.2	93.0	95.0	95
	L1	RANGPUR	3.47	P		20.0	28.7	37.6	43.5	52
				A	14.7		26.2	38.1	42.8	55
L7	MAHENDRANAGAR	6.11	P		20.1	23.7	30.2	38.5	51	
			A	15.6		25.3	35.2	48.1	66	
O1	DINAJPUR	3.14	P		17.1	24.6	30.1	35.9	42	
			A	14.3		24.5	32.1	40.6	52	
O4	CHARKAI	3.83	P		17.1	22.0	30.1	38.9	53	
			A	13.1		22.9	29.5	39.3	51	
K5	ATRAI	3.34	P		22.4	27.0	35.4	42.2	49	
			A	13.5		30.7	38.9	46.6	50	
3	N1	MULADULI	3.34	P		72.4	80.0	88.0	96.0	101
				A	66.7		83.0	91.1	94.7	98
	T1	CHUADANGA	4.17	P		83.3	90.0	96.0	100	
				A	75.5		85.9	90.6	95.2	99
	K2	AMNURA	3.48	P		43.0	53.7	61.1	71.4	79
				A	31.5		67.0	76.6	82.9	89
	P1	SATKHIRA	2.17	P		81.8	90.0	96.0	100	
				A	75.4		87.1	92.3	96.0	99
	T2	KUSHTIA	2.52	P		80.6	69.0	76.0	82.0	90
				A	49.5		68.6	79.3	86.6	96
S2	KALIGANJ	2.68	P		45.2	64.5	74.7	81.9	88	
			A	31.9		56.9	71.1	80.8	90	
K3	ROHANPUR	3.40	P		19.0	30.1	41.2	51.7	61	
			A	15.5		21.7	35.7	44.1	63	
TOTAL			100							
PROGRESS PLAN						54.6	60.8	67.2	72.9	78
PROGRESS ACTUAL					48.8		60.6	56.5	71.4	79

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GRESS SCHEDULE

KOREA DEVELOPMENT CORPORATION

1983							'84		REMARK
JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	
100	100	100	100	100					100
98	100								
98	98	100	100	100					
98	100								
93.0	97	100	110	100					90
99	47.8	60.7	75.3	85.7	94.1	98.4	100		
100	46.3	63.0	70.0	79.2					
93.6	78.2	89.1	98.2	100					
99.1	88.5	94.5	100	100					80
97	48	63.6	76.8	85.8	93.0	97.8	100		
91	45.3	62.4	79.3	88.8					
94	50.5	68.9	70.8	81.8	92.4	96.4	100		
93.3	51.9	61.9	72.2	82.2					
95.7	41.5	53.9	67.7	77.7	90.5	97.4	100		70
93.5	38.8	52.5	63.5	80.6					
92.6	38.4	48.4	58.7	73.5	85.9	96.8	100		
92	33.0	44.5	50.5	67.1					
97	36.5	52.2	67.9	81.9	94.1	98.6	100		
92	39.5	54.7	64.4	72.2					60
97	100								
94	93.2	95.2	99.2	100					
90									
94.8	96.7	97.5	100	100					
96.0	100								
97.2	91.6	92.3	95.0	100					50
90									
95.0	95.0	95.0	95.0	100					
97.6	43.5	52.6	62.8	76.3	85.1	95.9	100		
98.1	42.8	55.5	68.0	79.0					
90.2	38.5	51.2	66.5	79.8	89.6	98.8	100		40
98.2	48.1	66.1	73.8	80.9					
90.1	35.9	42.9	52.8	67.8	85.0	93.5	100		
92.1	40.6	52.8	59.8	73.2					
90.1	38.9	53.0	65.8	74.5	87.5	97.6	100		30
99.5	39.3	51.0	57.8	65.7					
95.4	42.2	49.8	61.0	74.4	86.0	96.9	100		
98.9	46.6	50.3	51.3	82.1					
93.0	96.0	100							
91	94.7	98.0	99.5	100					20
95.0	100								
97.6	95.2	99.0	99.5	100					
91	71.4	79.7	87.7	96.8	100				
95.6	82.9	89.0	95.0	100					
95.0	100								
93	86.0	98.0	99.5	100					10
90	82.0	90.0	97.0	100					
93	86.6	96.2	98.0	100					
97	81.9	88.9	92.9	97.6	100				
91	80.8	90.4	98.0	100					
92	51.7	61.2	71.8	81.9	92.4	97.4	100		
95.7	44.1	63.7	73.3	79.2					
									APPROVAL
92	72.9	78.7	84.7	90.5	95.4	98.8	100		SUBMIT
95	71.8	79.1	83.9	89.8					REVISE

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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	57.00	1,524,889.47	99.02	cc
Brahmanbaria	1,492,000.00	162.82	1,492,173.91	106.01	cc
Comilla	2,402,000.00	6,931.62	2,362,210.79	98.34	cc
Mymensingh	710,000.00	1,782.14	710,347.33	100.05	cc
Feni	820,000.00	76,313.76	577,339.26	70.41	
Madhupur	1,415,000.00	107,619.23	1,256,516.58	88.80	
Melandah	1,608,000.00	181,879.52	1,252,799.94	77.91	
Netrakona	1,772,000.00	265,942.69	1,425,750.41	80.46	
Barisal	1,660,000.00	201,439.81	1,328,986.92	80.06	
Bhola	2,070,000.00	201,283.47	1,273,267.25	61.51	
<u>ZONE - II</u>					
Santahar	6,095,000.00	135,796.83	6,095,088.88	100.00	cc
Bogra	3,111,000.00	28,015.91	3,088,118.86	99.26	cc
Panchagar	1,160,000.00	55,669.86	1,143,830.64	98.61	cc
Shibganj	2,132,000.00	145,519.46	2,111,153.42	99.02	cc
Rangpur	1,664,000.00	173,418.80	1,312,376.65	78.87	
Mahendranagar	2,930,000.00	175,405.42	2,314,498.08	78.99	
Charkai	1,835,000.00	158,534.06	1,237,751.23	67.45	
Dinajpur	1,504,000.00	197,193.47	1,104,495.80	73.44	
Atrai	1,600,000.00	197,344.68	981,555.70	61.35	
<u>ZONE - III</u>					
Muladuli	1,600,000.00	3,650.48	1,506,533.13	94.16	cc
Chuadanga	2,000,000.00	12,970.22	2,000,317.81	100.02	cc
Amnura	1,670,000.00	34,567.76	1,544,654.66	92.49	cc
Satkhira	1,038,000.00	2,866.62	1,051,456.71	101.30	cc
Kushtia	1,207,000.00	25,200.32	1,138,207.12	94.30	cc
Kaliganj	1,274,000.00	40,320.80	1,191,315.13	93.51	cc
Rohanpur	1,630,000.00	108,313.54	1,287,091.02	78.96	
TOTAL					
(All Sites)	47,939,000.00	2,538,200.29	42,312,726.70	88.26	
RETENTION	1,000,000.00	-	1,000,000.00	-	

* Preliminary data.

cc Completion Certificate Issued

11. CONSTRUCTION CONTRACT CHANGE ORDER STATUS

<u>Change Order Number</u>	<u>Date</u>	<u>Description</u>	<u>Change</u>	<u>Contract Amount</u>
-	16 Oct. 81	Contract signed	-	\$ 50,000,000.00
01-001	23 Oct. 81	Dinajpur - 3000 ton godown eliminated	\$ (561,600.17)	\$ 49,438,399.83
002	26 Jan. 82	Cost reduction	Rejected	\$ 49,438,399.83
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	Madhupur - Site relocated	\$ (4,293.80)	\$ 49,481,205.55
H1-006	21 July 82	Feni - Earthwork Modification	\$ 46,258.00	\$ 49,527,463.55
C2-007*	22 Feb. 83	Mymensingh - Concrete piles Deleted sand piles and floor (A27 and B11)	\$ 138,426.70 \$ (203,185.16)	
		Net	\$ (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	Melanlah - Concrete piles Deleted sand piles and floor (A27 and B11)	\$ 143,144.91 \$ (422,950.88)	
		Net	\$ (279,805.97)	\$ 49,169,400.12
B2-010*	02 Feb. 83	Netrakona - Concrete piles Deleted sand piles and floor (A27 and B11)	\$ 153,692.38 \$ (377,553.60)	
		Net	\$ (223,861.22)	\$ 48,945,538.90
I2-011*	21 April 83	Brahmanbaria revised water system Delete - D21, 22 & 23	\$ 10,666.91 \$ (19,152.00)	
		Net	\$ (8,485.09)	\$ 48,937,053.81
11-012*	28 April 83	Comilla revised water system Delete D21, 22 & 23	\$ 16,307.03 (19,152.00)	
		Net	(2,844.97)	\$ 48,934,208.84
I3-013*	28 April 83	Daudkandi revised water system Delete D21, 22 & 23	\$ 12,695.78 (19,152.00)	
		Net	(6,456.22)	\$ 48,927,752.62

CONSTRUCTION CONTRACT CHANGE ORDER STATUS (Continued)

<u>Change Order Number</u>	<u>Date</u>	<u>Description</u>	<u>Change</u>	<u>Contract Amount</u>
03-014*	28 April 83	Panchagar revised water system Delete D21, 22 & 23 Net	\$ 17,717.03 (19,152.00) (1,434.97)	\$ 48,926,317.65
M1-015*	28 April 83	Santahar revised water system Delete D21, 22 & 23 Net	\$ 13,590.85 (19,152.00) (5,561.15)	\$ 48,920,756.50
02-016*	28 April 83	Shibganj revised water system Delete D21, 22 & 23 Net	\$ 12,359.85 (19,152.00) (6,792.15)	\$ 48,913,964.35
M3-017*	28 April 83	Bogra revised water system Delete D21, 22 & 23 Net	\$ 14,388.85 (19,152.00) (4,763.15)	\$ 48,909,201.20
P1-018*	28 April 83	Satkhira revised water system Delete D21, 22 & 23 Net	\$ 12,866.21 (19,152.00) (6,285.79)	\$ 48,902,915.41
T1-019*	28 April 83	Chuadanga revised water system Delete D21, 22 & 23 Net	\$ 15,777.35 (19,152.00) (3,374.65)	\$ 48,899,540.76
N1-020*	28 April 83	Muladuli revised water system Delete D21, 22 & 23 Net	\$ 9,021.43 (19,152.00) (10,130.57)	\$ 48,889,410.19
M1-021*	18 July 83	Santahar Gate substitution	\$ 251.50	\$ 48,889,661.69
D1-022*	08 Aug. 83	Madhupur revised water system Delete D21, 22 & 23 Net	\$ 17,380.25 (14,766.00) 2,614.25	\$ 48,892,275.94
B2-023*	14 Sept. 83	Netrakona revised water system Delete D21, 22 & 23 Net	\$ 12,004.88 (19,152.00) (7,147.12)	\$ 48,885,128.82
C4-024*	14 Sept. 83	Melandah revised water system Delete D21, 22 & 23 Net	\$ 13,854.08 (19,152.00) (5,297.92)	\$ 48,879,830.90
04-025*	14 Sept. 83	Barisal revised water system Delete D21, 22 & 23 Net	\$ 9,600.33 (19,152.00) (9,551.67)	\$ 48,870,279.23

CONSTRUCTION CONTRACT CHANGE ORDER STATUS (Continued)

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

* Not yet signed and approved by BADC

INTERNATIONAL ENGINEERING COMPANY, INC.
FORCE REPORT
31 OCTOBER, 1983

A. Dhaka Office

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

B. Zone I (Mymensiagh)

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

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

**Stationed at Dhaka

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DEVELOPMENT CONSULTANCY SERVICES LTD.

FORCE REPORT

31 OCTOBER, 1983

A. Dhaka Office & Lab.

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

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

1. Amalendu Debnath	Senior Field Engineer (Comilla)
2. Emdadul Ghani	Senior Field Engineer (Feni)
3. S.M. Khalilur Rahman*	Field Engineer (Feni)
4. Azmal Khan	Inspector (Feni)
5. N.C. Lewis	Inspector (Brahmanbaria)
6. Abdus Sattar*	Inspector (Feni)
7. Abul Kalam Azad	Mat. Lab. Tech. (Feni)
8. Nurul Momen Khan	Mat. Lab. Asst. (Feni)
9. Daliluddin Biswas	Driver

Sub-Zone I-B (Mymensingh)

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

Sub-Zone I-C (Barisal)

1. Md. Mohsin Ali	Senior Field Engineer
2. Habibur Rahman Khan	Field Engineer (Barisal)
3. Syed 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. Alamgir (Alam)	Messenger

C. Zone II (Bogra)

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

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D. Zone III (Ishurdi)

1. Tajul Islam Chowdhury	Area Office Manager
2. Md. Mozaharul Islam*	Field Engineer (Kushtia)
3. Sujit Kumar Das*	Field Engineer (Amnura)
4. Mostahar Ali	Field Engineer (Rohanpur)
5. Sirajul Islam Khan*	Inspector (Satkhira)
6. Munshi Mojnur Rahman	Inspector (Amnura)
7. Bazlur Rahman	Inspector (Rohanpur)
8. Humayun Kabir Khan	Mat. Lab. Tech. (Zonal Lab.)
9. Talukder Obaidur Rahman	Mat. Lab. Tech. (Rohanpur)
10. Md. Nuruzzaman*	Mat. Lab. Tech. (Rohanpur)
11. Dilip Kumar Dey	Mat. Lab. Asst. (Ishurdi)
12. Zahirul Islam Khan	Mat. Lab. Asst. (Ishurdi)
13. Shamsul Islam	Mat. Lab. Asst. (Amnura)
14. Anil Kumar Chowhan	Mat. Lab. Asst. (Rohanpur)
15. Ali Hossain	Driver
16. Abdul Quddus	Guard (Ishurdi)
17. Md. Zahiruddin*	Camp Assistant
18. Tofayel Hossain Gazi	Messenger

* Resigned/was terminated October 1983.

USAID IMPROVEMENT GRANT

IECO CONTRACT 9074

APPENDIX III

Sheet 1 of 4

CONSULTANCY EXPENDITURE BUDGET

<u>Schedule I</u>	<u>Budget</u>	<u>JOE TO DATE</u>		<u>SEPTEMBER 1983</u>		<u>Balance</u>
		<u>Dollars</u>	<u>Taka As Dollars</u>	<u>Dollars</u>	<u>Taka As Dollars</u>	
<u>Resident Consultant Related Cost</u>						
A. Salary	1,029,900	905,453.75	-	22,821.61	-	124,446.25
F. Payroll	1,071,100	941,671.91	-	23,734.47	-	129,428.09
C. Overhead						
D. Air Travel	60,000	56,341.99	606.18	2,103.90	-	3,051.83
E. Freight Cost	51,000	31,000.00	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	-	151,734.28	-	309.07	19,425.72
K. Furniture & Equipment	77,000	23,464.59	37,952.75	-	-	10,582.66
L. Education Allowance	15,000	5,025.00	29,925.43	600.00	-	(19,950.43)
M. Terminal Leave	68,620	-	-	-	-	68,620.00
N. Medical Care	16,425	43.19	729.16	-	-	15,647.65
O. Int'l Travel Per Diem	13,500	11,765.31	2,376.51	205.79	-	(641.82)
P. In-country Travel Per Diem	18,538	-	8,835.01	-	334.30	9,702.99
	\$ <u>2,651,159</u>	<u>2,915,875.10</u>	<u>235,988.72</u>	<u>49,465.77</u>	<u>643.37</u>	<u>399,295.18</u>
	Say \$ <u>2,651,000</u>					<u>399,136.18</u>

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USAID IMPROVEMENT GRANT

IECO CONTRACT 9074

APPENDIX III

Sheet 2 of 4

CONSULTANCY EXPENDITURE BUDGET

Schedule II	Budget	JOB TO DATE		SEPTEMBER 1983		Balance
		Dollars	Taka As Dollars	Dollars	Taka As Dollars	
<u>Short Term Consultant Related Cost</u>						
A. Salaries	12,000	10,992.70	-	-	-	1,007.30
B. Payroll Cost	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)
	\$ 60,836	59,867.26				968.74
Say	\$ 61,000					<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		SEPTEMBER 1983		Balance
		Dollars	Taka As Dollars	Dollars	Taka As Dollars	
A. Office Rental, Equipment and Maintenance						
1. Dhaka Office	52,860	-	53,950.70	-	439.65	(1,090.70)
2. Area Office Including Lab.	25,450	-	24,555.72	-	518.41	894.28
3. Furniture & Equipment	55,800	15,331.32	52,341.93	-	-	(11,873.25)
4. Office Supplies & Stationery	40,125	12,380.44	28,196.37	-	451.21	(451.81)
5. Reproduction Cost	54,900	383.88	52,558.95	-	99.17	1,957.17)
6. Communication Cost	13,050	60.00	10,625.68	-	63.43	2,364.32
B. Vehicle Operation & Maint.						
1. Vehicle Rental	11,250	-	12,049.13	-	-	(799.13)
2. Vehicle Operation & Maintenance	255,050	-	232,971.35	-	2,958.87	22,078.65
C. Direct Hire Local Admin. Personnel						
	130,900	-	138,603.71	-	2,621.64	(7,703.71)
D. Soil Testing Charges						
	33,000	-	30,094.99	-	29.45	2,905.01
E. Subcontract DCS (Table 6B)						
	993,450	-	838,022.39	-	30,747.99	155,427.61
F. Local Travel						
	23,500	-	22,018.42	-	1,481.99	1,481.58
G. Misc. Field & Office Expenses						
	18,000	25.00	14,591.61	-	326.66	3,383.39
	\$ 1,707,335	28,120.64	1,510,580.95	-	39,738.47	168,573.41
Say	\$ 1,707,000					168,238.41

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USAID IMPROVEMENT GRANT

APPENDIX III

IECO CONTRACT 9074

CONSULTANCY EXPENDITURE BUDGET

Sheet 4 of 4

Schedule IV	Budget	JOB TO DATE		SEPTEMBER 1983		Balance
		Dollars	Taka As Dollars	Dollars	Taka As Dollars	
<u>IECO Headquarter Related Cost</u>						
A. Salaries	93,300	99,073.13	-	896.51	-	(5,773.13)
B. Payroll Cost †	113,830	120,627.77	-	1,093.74	-	(6,797.77)
C. Overhead Cost †						
D. Officers' & Managers' Visits	18,600	20,585.30	-	-	-	(1,985.30)
E. Computer Cost	7,000	12,684.99	-	-	-	(5,684.99)
F. Communication Cost	19,500	12,664.61	-	200.81	-	6,835.39
G. Reproduction Cost	10,000	3,361.39	-	71.94	-	6,638.61
H. Bond Cost & Commission	5,000	2,684.08	-	-	-	2,315.92
	<u>\$ 267,230</u>	<u>271,681.27</u>	<u>-</u>	<u>2,263.00</u>	<u>-</u>	<u>(4,451.27)</u>
	Say <u>\$ 267,000</u>					<u>(4,681.27)</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	8,187.64	-	-	3,275.47
4. Materials Lab.	26,000	21,730.30	12,951.95	-	-	(8,686.25)
5. Minor Equipment, Tools and Spare Parts	29,000	22,266.13	210.83	-	-	6,523.64
B. <u>Shipping, Insurance and Clearance Costs</u>	<u>77,600</u>	<u>59,547.54</u>	<u>7,539.00</u>	<u>-</u>	<u>-</u>	<u>10,513.46</u>
	<u>330,000</u>	<u>208,343.49</u>	<u>44,753.38</u>	<u>-</u>	<u>-</u>	<u>76,903.13</u>
<u>Schedule VI</u>						
Fixed Fee	501,000	464,667.70		7,266.67		36,332.30
	<u>\$ 5,517,000</u>	<u>3,048,615.46</u>	<u>1,791,323.05</u>	<u>58,995.44</u>	<u>40,381.84</u>	<u>677,061.49</u>
Total Expenditure to Date	=	4,839,938.51				
Percent of Budget Spent to Date	=	87.73%				
Contract Time Elapsed	=	92.61%				