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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. 47

AUGUST 1983

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

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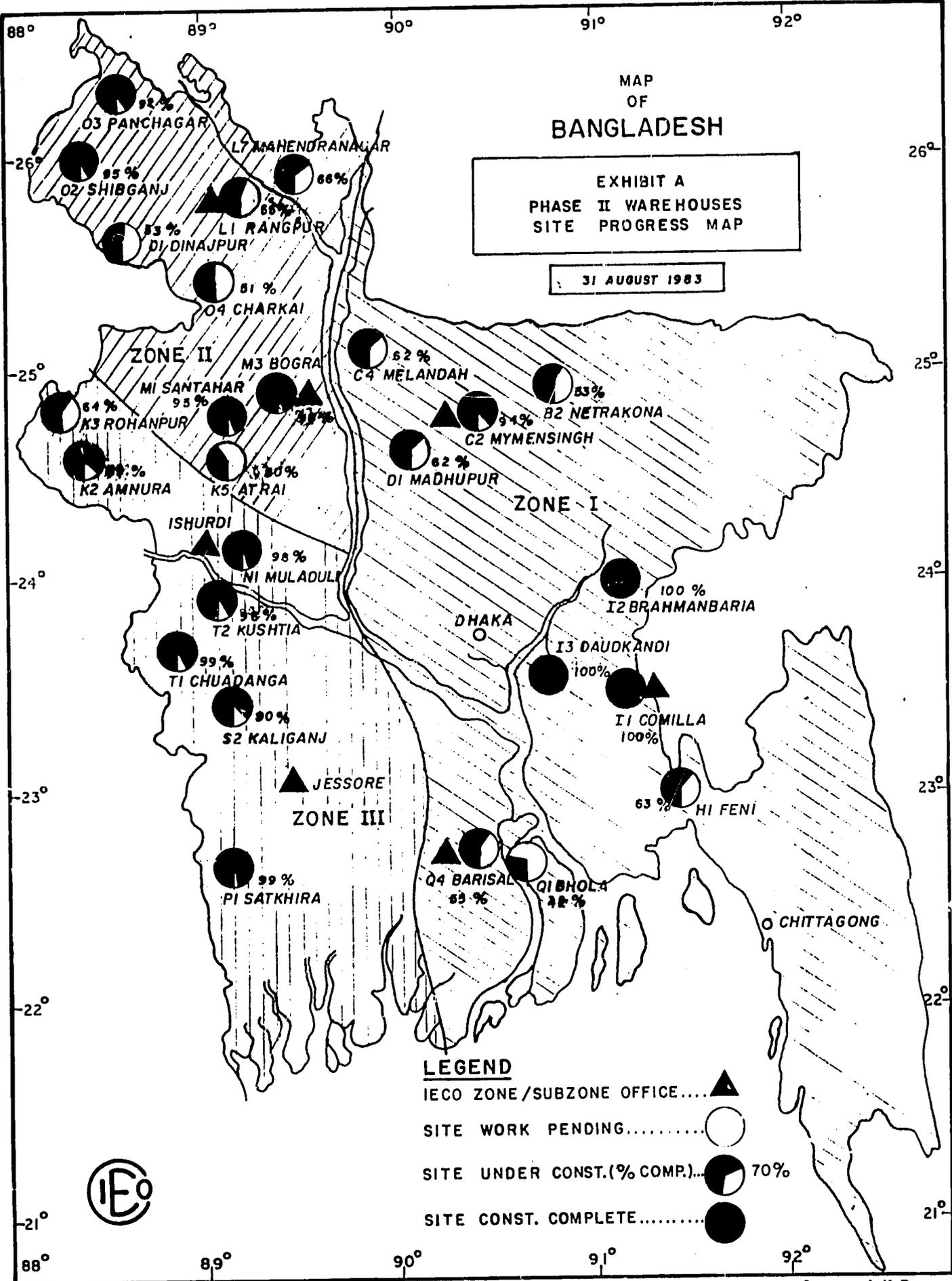
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INTERNATIONAL ENGINEERING COMPANY, INC.

A MORRISON-KNUDSEN COMPANY



Drawn : A.K. Roy.

MONTHLY PROGRESS REPORT NO. 47
 MONTH OF AUGUST, 1983
TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
Warehouse Site Progress Map	1 Sheet
1 General	1
2 Contract Administration	2
3 Contract Expenditures	3
4 Expatriate Staff - IECO	3
5 Meetings	4
6 Pending Activities and Activities in Progress	4
6.1 For Action by BADC	4
6.2 For Action by IECO	4
7 Engineering Activities	5
7.1 Materials and Foundations Engineering	5
7.2 Office and Field Engineering	5
7.3 Rail Siding Construction Arrangements	5
8 Construction Surveillance	12
8.1 General	12
8.2 Zone I (Comilla)	12
C2 Mymensingh	12
D1 Madhupur	12
C4 Melandah Bazar	13
B2 Netrakona	13
I1 Comilla	14
I3 Daudkandi	16
H1 Feni	17
O4 Barisal	18
O1 Bhola	18
8.3 Zone II (Bogra)	20
M1 Santahar	20
M3 Bopra	20
O3 Panchagar	21
O2 Shibganj	21
L1 Rangpur	22
O4 Charkai	23
K5 Atrai	24
O1 Dinajpur	25
L7 Mahendranagar	26

<u>Section</u>	<u>Page</u>
8.4 Zone III (Ishurdi)	28
K3 Rohanpur	28
K2 Amnura	28
N1 Muladuli	29
P1 Satkhira	30
S2 Kaliganj	31
T2 Kushtia	32
T1 Chuadanga	32
9 Contractor's Activities (KDC Report Abstract)	34
Overall Project Activities	34
General Statement of Progress	34
Problems and Delays	35
Equipment	36
Materials Procurement and Shipment	36
Equipment Procurement and Shipment	36
Specific Site Activities	37
Zone I	37
General Statement of Progress	37
Plant and Equipment	40
Zone II	41
General Statement of Progress	41
Plant and Equipment	44
Zone III	45
General Statement of Progress	45
Plant and Equipment	48
Overall Progress Schedule	1 sheet
10 Contract Financial Summary - Dollars	49
11 Construction Contract Change Order Status	50
 <u>Appendices</u>	
I IECO Force Report	1 sheet
II DCS Force Report	4 sheets
III Consultancy Expenditure Budget July 1983	4 sheets

CONTRACT 9074
11 September 1983

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

INTERNATIONAL ENGINEERING COMPANY, INC.
CONSULTING ENGINEERS

MONTHLY PROGRESS REPORT NO. 47
FOR THE PERIOD AUGUST 1-31, 1983

1. GENERAL

Construction was substantially completed at two Zone I sites, and neared this stage at three Zone III sites. At three Zone II sites however, progress in completing the final works lagged; and at a fourth site, Shilganj, no construction progress was made for the third month in a row. The Contractor is not properly organized to carry out detailed finishing works rapidly or efficiently, with the result that the last five percent of sitework is requiring an inordinate amount of time to accomplish. At other sites, where construction has not yet reached the finishing-up stage, construction progress was good or very good at eight sites, and was satisfactory at five other sites. Slow progress, losing ground to the schedule, was recorded at three sites. The work at individual sites is reported in detail in Section 8, and the site-wise work status is included in the accompanying Overall Progress Schedule chart.

The account of progress at the end of August 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 72.3% against 72.7% scheduled. The Daudkandi and Comilla sites were inspected near month-end, and with the accomplishment of some work following this inspection these sites were certified substantially complete as of 31 August. Lhola site progress slightly exceeded schedule and is now only about 4% behind, but work at Lhola must be accelerated if the January 1984 completion is to be met. Work accomplished at the other Zone-I sites generally matched the schedules, and work completion is close to that planned.

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 78.6% complete against 78.4% scheduled, making up last month's minor shortfall. Construction progress at Mahendranagar and Dinajpur was very good, and was good at Rangpur. It was slow at Atrai and Charkai, not matching the schedule. However the three good performances do not help the unfinished final work at the four sites where work accomplishment varies from very slow to nil: Santahar, Bogra, Panchagar and Shibganj. Strong representations are being made to the Contractor to reorganize manpower and prosecute these sites: but it is not possible to anticipate their completion in September, with the possible exception of Bogra.

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 90.5% complete against the 88.3% scheduled. Performance by the Contractor exceeded the schedule at four sites, accounting for this gain against the schedule. Work accomplished at the three finishing sites was significant, but was not sufficient by month end for the Engineer to issue certificates of completion. It is anticipated that work at Chuadanga, Satkhira and Muladuli will be substantially completed in September so that certificates can be issued. Final inspections and verifications are being made to that end.

Overall, the Phase II construction program is 79.1% complete against the 78.7% scheduled. Progress in August was 7.3%, exceeding the 5.8% scheduled; bringing the prospects of on-time completion at the end of January, 1984 into better prospect.

With completion of two sites and partial consolidation of field activities, DCS staff was reduced from 141 to 129 personnel, four technical and eight support personnel being released. IECO local staff was reduced by four, to fifteen personnel. DCS and IECO force reports are appended.

2. CONTRACT ADMINISTRATION

Change Orders

- Change Orders at LADC for approval:

C2-007 Mymensingh Piles
C4-009 Melandah Piles
E2-010 Netrakona Piles
M1-021 Santahar 24' Rail Gate
Revised Water Supply System C.O.'s:
I2-011 Erahmanbaria
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
D1-022 Madhupur (Sent to EADC in August)

- Temporary Facilities - IECO suggested, and EADC and KDC agreed, that KDC temporary power be left in service after site turnovers, until permanent power is connected. KDC will also leave temporary buildings as desired by EADC. EADC and KDC will separately negotiate this transfer which is outside the terms of the construction contract.
- Amendment No. 1 to EADC/KDC Contract - The amendment was approved by EADC on 14 August and signed by EADC and KDC on 29 August.
- Dayworks - Dayworks were authorized for drainage channel at Comilla (Est. \$7972).

3. CONTRACT EXPENDITURES

August, 1983 Taka expenditures reimbursable by USAID were:

Local Salary	72,925.00
Office Supplies & Expenses	23,149.17
Dhaka Office Rent/Maint./Utilities	11,330.00
Area Office Rent/Maint./Utilities	26,167.90
Office Furniture & Equipment	5,618.00
Vehicle Operation	133,599.74
Soils Lab. Works	917.50
Education	301,365.93
House Rent/Maint./Utilities	23,207.04
DCS	746,118.25
Local Travel	44,043.60
Expat Per-diem & Hotel	11,420.00
Miscellaneous	5,533.60
Total Taka	<u>1,405,395.73</u>

Expenses reimbursable through EADC's Duties & Taxes Account were Taka 8,270.00.

July's expenditure budget is appended.

4. EXPATRIATE STAFF - IECO

In-country expatriate staff during August:

F.E. Isgrig	Project Manager (Returned to the U.S. on Personal Leave 19 August)
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

03 August	Min. of Agriculture DADC/ER USAID/IECO	Source and replacement of rail siding materials, ER cost estimate format, USAID funding and PIL requirements.
24 August	DADC/KDC USAID/IECO	Monthly Progress Meeting. Electrical systems, Temporary Facilities, Construction schedule and Site turnovers, Delay potential, Rohanpur works and costs and Construction methods.
30 August	Min. of Agriculture DADC/ER USAID/IECO	Reviewed status of rail siding cost estimates (as revised), Materials Tender Documents, Hardwood Species approval, Scheduling works, PIL requirements.

6. PENDING ACTIVITIES AND ACTIVITIES IN PROGRESS

6.1 For Action by DADC

a. Site clearance/obstruction removal activities:

Dhola - DADC to clear for possession of final land parcel.

Rangpur - DADC to execute Burmah-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 PDE the location of site power tapping points, and arrange with PDE for electrical service. Sites where tap points have been approved are Daudkandi, Shibganj, Panchagar, Logra, Santahar, Satkhira, Chuadanga, Kushtia and Comilla.

6.2 For Action by IECO

a. Review ER's revised cost estimates for rail sidings at 14 sites and submit them for approval of DADC and USAID.

b. Award purchase orders (contracts) for sleeper procurements after necessary approvals have been obtained. Prepare Tender Documents for rebid of Invitation No. 6.

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 Feni, Barisal, Bhola, Netrakona, Melandah, Mymensingh, Kushtia, Kaliganj, Amnura, Rohanpur, Rangpur, Mahendranagar, Charkai and Dinajpur sites.

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

Brick samples were tested at Dhaka Laboratory for possible use at Bhola, Barisal and Feni.

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 Atrai was modified with embankment re-arrangement on the north and north-east boundaries, Sunshade reinforcement clarification was added in standard drawing. Ancillary building A1 drawing was modified to reflect the elimination of roof overhang for stair landing and the dimensional adjustment of width of building. Railroad drainage arrangement, plan, profile, sections and details of Comilla site were drawn. Minor modifications were made in Rohanpur riverside slope protection drawing. One sheet (4 of 4) of Rohanpur surface drainage details was completed. Incorporation of details of pipe drain in the Rangpur approach road drawing is in progress.

At month end, survey party was staking out alignment of drainage channel at Comilla.

Final field measurement of quantities was completed fully for Brahmaubaria and substantially for Daudkandi, Comilla and Satkhira sites. As built site plans of Bogra, Shibganj, Comilla, Satkhira and Panchagar were drafted and that of Daudkandi modified.

7.3 Rail Siding Construction Arrangements

Meetings were held at the Ministry of Agriculture on August 3 and 30 to review progress and coordinate further activities. A final meeting is scheduled for 26 September.

Revised cost estimates for all fourteen sites were received from LR and were being checked by IECO at month end. These estimates along with estimated cost of domestic and off-shore material procurements will be forwarded to MADC and USAID for establishment of budgets and the Project Implementation Letter (PIL).

In addition to the RFQ for rail issued last month, RFQ's were issued for fishplates (Invitation No. 8) and special diamond crossings (Invitation No. 6 - partial). The remaining items tendered under Invitation No. 6 will be rebid.

Lid Bonds were returned where required.

Selected tenders for regular and turnout hardwood sleepers are expected to be approved and awards issued in early September.

LR was provided blank siding construction bar chart schedules to complete for each site in order that work can be monitored and coordinated with KDC.

CONSOLIDATED REPORT
MATERIALS TESTING

Laboratory Reporting:
Dhaka

Reporting Period:
From 26 July To 25 Aug.

CONCRETE Compressive Strength Test		No. of Tests at		Samples Passed at 28 days	Remarks
Site	Location	7 days	28 days		
Feni	Shear wall, suspended roof slab and beams, int. and ext. column.	12	9	8	One lab-cured cyl. failed from suspended roof slab & beams with comp. strength of 2618 psi. ('A' class conc.). Field-cured cyl. tested and passed with comp. strength of 3643 psi.
Comilla	Ancl. bldg., railings of stairs of A1 bldg, walkway of ancl. bldgs A1, B1 & C1, public toilet.	-	4	3	One lab-cured cyl. failed from walkway of ancl. bldgs B1 & C1 with comp. strength 2971 psi ('A' class conc.). Field cyl. tested and passed with comp. strength 3040 psi.
Bhola	Int. & ext. col., grade beam, bond beam, ext. pile cap, shear wall, lintel & sunshade of ancl. bldg.	22	16	15	One lab-cured cyl. failed from Int. col. with comp. str. 2847 psi. Field cyl. also tested and failed with comp. str. 2865 psi. But Hammer tested and passed. Also one field cyl. from ext. pile cap tested and passed which was requested to send for test in the last reporting period.
Barisal	Shear wall, grade beam, Int. & ext. col., approach road, sunshade, lintel beam of B1 & C1 bldgs, public toilet.	26	17	16	One lab-cured cyl. failed from lintel, sunshade & beams of ancl. bldg. ('B' class) with comp. strength 1875 psi. Requested to send field cyl. for test.

CONSOLIDATED REPORT
MATERIALS TESTING

Sheet 2 of 2

Laboratory Reporting:
Dhaka

Reporting Period:
From 26 July To 25 Aug.

Materials & Tests	Particulars	Tests Total	Tests Passed	Remarks
<u>BRICK</u> Absorption Test	Frog Marks - MOLLA, LBW, NBM, AAC, ABM, ASK, MJB	7	5	Frog marks passed: LBW(H1), NBM(H1), AAC (Q1, Q4), ABM(Q1), ASK (Q1, Q4), MJB(Q1)
Compressive Strength Test		7	6	
<u>BRICK STACK TEST</u> Compressive Strength Test	Frog Marks - NAZ '83, MNE, MJB, AAC, GAZI '82, GAZI '83, LUNA '83, CEM	130	41+89	41 stacks passed: 1 NAZ '83 (Q1), 2 MJB (Q1), 5 GAZI '83 (Q4), 4 GAZI '82 (Q4), 2 LUNA '83 (Q4), 14 CEM (C2), 5 NBM (H1), 1 CIM (I1), 1 CEM (K5). 89 stacks need resorting: Q1-2 NAZ '83, 7 MNE, 5 MJB, 7 AAC. Q4-8 GAZI '83, 4 GAZI '82, 4 LUNA '83, 21 CEM (C2), 16 NBM (H1), 2 CEM (H1), 4 CEM (I1), 9 CEM (K5).
<u>FINE AGGREGATE</u> Gradation Test		15	15	Tests Passed: 6 (H1), 9 (Q1)
Lab. Compaction Test		1	-	Test done: 1 (Q1)
Field Density Test	Sand Fill	36	36	Tests passed: 36 (H1)
<u>COARSE AGGREGATE</u> Gradation Test		5	2	Tests passed: 2 (H1)
<u>IMPORTED MATERIALS</u> Gradation Test		76	57	Tests passed: 38 (Q1), 19 (Q4)
Field Density Test	Engineered Fill	52	37	Tests passed: 30 (Q1), 7 (Q4)

CONSOLIDATED REPORT
MATERIALS TESTING

Laboratory Reporting:
Mymensingh

Reporting Period:
From 26 July To 25 Aug.

<u>CONCRETE</u> Compressive Strength Test		No. of Tests at			Samples Passed at 28 days	Remarks	
Site	Location	7 days	14 days	28 days			
Netrakona	Shear wall, road area, interior column, godown roof slab.	16	1	13	11	Two lab-cured cyl. failed. One field-cured cyl. tested & passed and requested to send the second field cyl. for test.	
Mymensingh	Roof slab, bond beam, road, int.col.	2	-	8	6	Two lab-cured cyl. failed. One field cyl. tested & passed and requested to send the second field cyl. for test.	
Madhupur	Roof slab & beam, tie beam, barbed wire fencing, pillar, stair case, false slab, road slab.	14	-	10	5	Five lab-cured cyl. failed. Four field cyl. tested and passed and requested to send the fifth field cyl. for test.	
Melandah	Road way, int. col., godown roof slab, public toilet lintel, sunshade, false slab.	17	-	16	14	Two lab-cured cyl. failed. Requested to send two field cyl. for test.	
Materials & Tests		Particulars			Tests Total	Tests Passed	Remarks
<u>BRICK (STACK TEST)</u> Compressive Strength Test		Frog Marks - ARC, ABC, DC, MMF NBM			26	17+9	17 stacks passed: 12 NBM(B2), 2 DC(B2), 1 ABC(B2), 1 ARC(B2), 1 MMF(D1) 9 stacks need resorting: 4 NBM(B2), 5 DC(B2).
<u>FINE AGGREGATE</u> Gradation Test					10	7	Tests passed: 2(C2), 1(B2), 3(C4), 1(D1).
Lab. Compaction Test		Sylhet Sand			1	-	1(C2).
Field Density Test		Godown Sand Fill			138	115	Tests passed: 51(C2), 64(D1).
<u>IMPORTED MATERIALS</u> Field Density Test		Engineered Fill			39	35	Tests passed: 31(B2), 4(C4).

CONSOLIDATED REPORT
MATERIALS TESTING

Laboratory Reporting:
Rangpur

Reporting Period:
From 26 July To 25 Aug.

<u>CONCRETE</u> Compressive Strength Test		No. of Tests at			Samples Passed at 28 days	Remarks	
Site	Location	7 days	14 days	28 days			
Charkai	Godown	12	4	15	14	One lab.-cured cyl. failed. Field cyl. also failed. Hammer tested and passed.	
Dinaipur	Godown	20	-	13	13	All passed.	
Rangpur	Godown, ancillary, boundary wall & road	34	-	32	31	One lab-cured cyl. failed. Field cyl. tested and passed.	
Mahendranagar	Godown	31	1	19	18	One lab-cured cyl. failed. Field cyl. tested and passed.	
Santahar	Road, boundary wall	3	-	1	1	All passed. Also four field cyl. tested from boundary wall and found failed. Hammer tested and passed.	
Materials & Tests		Particulars			Tests Total	Tests Passed	Remarks
<u>BRICK STACK TEST</u> Compressive Strength Test		Frog Marks - MH, MAM, KS, JC, MU-83, DBM, STAR, MB, BSB			269	95+141	95 stacks passed: 21 MH(L1), 1 MAM(L7), 3 KS(L7), 2 JC(L7), 22 DBM(O4), 2 DBM(O1), 10 STAR(K5), 9 MB(K5), 25 MU-83(K5). 141 stacks need resort: 42 MH, 8 MAM, 7 K5, 7 JC, 17 DBM, 1 MU-83, 22 DBM, 2 STAR, 3 MB, 5 MU-83, 27 BSB.
<u>FINE AGGREGATE</u> Gradation Test					14	14	Tests passed: 2(L7), 10(O4), 2(O1).
Unit weight Test					1	1	1(L7)
Field Density Test		Sand Fill			506	506	Tests passed: 221(L7), 148(O4), 137(O1)
<u>COARSE AGGREGATE</u> Gradation Test					9	6	Tests passed: 2(L7), 4(O1).
<u>IMPORTED MATERIALS</u> Field Density Test		Engineered Fill			35	35	Tests passed: 35(L1)

CONSOLIDATED REPORT
MATERIALS TESTING

Laboratory Reporting:
Ishurdi

Reporting Period:
From 26 July To 25 Aug.

<u>CONCRETE</u> Compressive Strength Test		No. of Tests at			Samples	Remarks	
Site	Location	7 days	14 days	28 days	Passed at 28 days		
Rohanpur	Godown, ancl. & road	22	-	12	11	One lab-cured cyl. failed. Field cyl. also failed. Hamm- er tested and fai- led. 15 Int.Col. removed.	
Annura	Godown & ancl. bldg.	10	-	14	14	All passed.	
Atrai	Godown	12	-	6	6	All passed.	
Satkhira	Godown floor	1	2	7	7	All passed.	
Chuadanga	Godown floor	8	-	4	4	All passed.	
Kushtia	Ancl. bldg.	2	-	9	8	One lab cyl.failed. Field cyl. tested and found okay.	
Kaliganj	Godown & ancl. bldg.	2	5	3	3	All passed.	
Materials & Tests		Particulars			Tests Total	Tests Passed	Remarks
<u>BRICK</u> Absorption Test Compressive Strength Test		Frog Marks - -			-	-	-
<u>FINE AGGREGATE</u> Field Compaction Test		Sand Fill			264	227	Tests passed: 56 (T2), 16(S2), 105(K3), 50(K2)
<u>IMPORTED MATERIALS</u> Field Compaction Test		Engineered Fill			533	509	Tests passed: 99(T2), 138(S2), 131(K3), 141(K2)
<u>SPECIAL</u> Cement Test		2" Mortar Cube Test (Olympia & Haul Brand)			6	1	Test passed: 1(T1) Haul Brand

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 performances in August were as follows:

8.2 Zone I (Comilla)

C2 Mymensingh

During August the final concrete was poured in the tie beams and canopies, bringing that work to 100% complete against 100% scheduled. Some 221 sf of masonry walls were constructed on the godown during August and 12,300 sf of plastering completed, bringing those works to 100% complete. The whitewashing in and outside of the godown was started and in progress. At the end of the month approximately 60% of the louvres, vents and windows were installed, matching the schedule. The final 23,125 sf of bituminous roofing was placed, bringing that work to 100% complete against 60% planned. About 9,500 sf of temporary godown brick flooring was placed for 45% complete against 50% scheduled, while some 1,112 sf of brick apron was placed by the end of August. In addition another 5,750 cf of compacted sand fill was placed under the floor, for 100% completion as planned.

During August 11.0% progress was achieved against 10.9% planned. The overall status of the site work at the end of August stood at 94.5% against 89.1% 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 August 52 cy of concrete was poured in the remaining tie beams and canopies bringing that work to 100% complete against 100% scheduled, and some 310 cy of concrete floor slab was poured for 46.7% complete against 50% planned. In addition all godown masonry walls were completed against 50% scheduled, and some 14,700 sf of plastering was accomplished, bringing that work to 44.4% complete, ahead of schedule. Approximately 80% of the under-floor sand fill was placed during the month against 100% planned. The installation of louvers, vents and windows was in progress and about 69% completed by the end of the month.

On site works, approximately 10,500 sf of the concrete road pavement was completed, for 26.3% done against 50% scheduled.

On the ancillary buildings, brick work was completed up to 1st floor roof level on A1 building, also the roof slab for B1 building was completed. Plastering started. The overall work on the ancillary buildings stands at 23% complete against 25% planned.

During August, 17.1% of the site construction progress was achieved against 15.6% planned. Overall status of site work at month end stood at 62.4% complete against 63.6% planned, only marginally behind schedule. This site is scheduled for completion at the end of January 1984.

C4 Melandah Bazar

By the end of August 60% of roof slab and beams were poured against 100% planned and 98% of tie beam and canopies were completed against 100% scheduled. Approximately 1000 sf of plastering was completed bringing that work to 6% complete, or ahead of schedule.

On site works, approximately 85% of boundary wall was completed by the end of August against 100% scheduled, while 72% of the concrete road pavement was completed against the 20% planned.

On ancillary buildings, brick work continued above the 1st floor level on the A1 building, while 90% of the plastering for B1, C1 and public toilet building was completed. Sanitary and plumbing started and was in progress at the end of the month. The overall status of the ancillary buildings stood at 28% complete against 30% planned at the end of August.

During August approximately 10.0% progress was achieved against 13.5% planned. Overall, site construction at the end of August stood at 61.9% against 63.9% or 2.0% behind the schedule. This site is to be completed by the end of January 1984; however, KDC should pick up the pace of the work to ensure meeting that completion date.

B2 Netrakona

At the end of August 32.4 cy of concrete had been poured in columns and shear walls, for 80% complete against 100% scheduled. 221.2 cy of concrete was poured in roof slab and beams to bring that work to 30% complete against 50% planned. In addition, 4120 sf of godown brick masonry walls were constructed for 61% complete against 20% planned; and approximately 7900 cf of under-floor sand fill was placed for 80% complete against 70% scheduled.

On site works 283 lf of boundary wall were constructed, for a total of 1433 lf; 62% complete against 100% planned. Approximately 9225 sf of concrete road pavement was placed during the month, bringing that total to 18,645 sf or 48% complete and ahead of schedule.

On the ancillary buildings, brickwork for A1 and C1 buildings were completed up to the lintel level. The roof slab was poured and completed for B1 building. Overall progress on the ancillary buildings stood at 18% complete against 30% planned at the end of August.

During August, 12.7% progress was achieved against 12.4% planned. Overall status of the site work at the end of August was 52.5% complete against 53.9% planned, continuing to be marginally behind the KDC bar chart schedule. Netrakona is to be completed by the end of January 1984, and KDC should pick up the pace of work at this site to ensure meeting the schedule.

Il Comilla

Site Development: During the month repairs to slope protection sodding and final grading and general clean-up was accomplished. The installation of electrical power poles, power lines and guy wires was also completed during the month.

Godown: Three coats of interior whitewash and two coats of exterior whitewash were completed during the month. In addition glass panes in the louvers and windows were fixed with putty and painted. Work on the electrical distribution and subdistribution boards were also completed during the month. The application of linseed oil treatment of interior columns of the godown with color pigment was also completed.

Ancillary buildings: Three coats of interior whitewash and two coats of exterior whitewash were applied during the month. The final exterior coat will be deferred until dry season. All the doors and windows, including grills, were installed and painted. The water piping system was tested at 40 psi earlier and sanitary lines were also pressure tested according to the specifications during the month. In addition, samples of water from the tubewell were collected and sent to the Department of Health laboratory for potability tests. All the sanitary, plumbing and electrical fixtures, ceiling fans, switch boards, etc. were installed complete by the end of the month.

An inspection of this site was conducted by the Engineer in company with DADC and USAID representatives at the end of August, and the site construction was found to be substantially complete with the exception of the following works, which are to be carried out by KDC during the 6 month maintenance period to begin on 1 September 1983:

A. Site Works

1. Complete RR siding drainage works as per Dwg. C-SK-11-1001.
2. Perform final grading of RR siding to accommodate Bangladesh Railroad siding construction operations.
3. Provide one additional drainage collection box and drop structure located between gate post and C-1 Building as instructed by the Engineer. This feature substitutes for the shed drainage called for previously.

4. Provide an additional chute drop structure at the location of existing road to temporary buildings, for draining area of adjacent parking lot and A-1 building.

B. Godown

1. Provide wooden loading dock bumpers along all truck loading docks as per approved drawings.
2. Provide one final coat of whitewash to the outside of the godown during the dry season.
3. Provide screens on all weep holes as per approved drawings.

C. A-1 Building

1. Provide final coat of whitewash to outside of building during dry season (as scheduled with IECO).
2. Provide door stops, as approved, at all doors in the building.
3. Test the water system in full use for two consecutive 8-hour periods as called for in Specification Section 22.13D5.
4. Chlorinate the Water Tanks and System (Accomplish this immediately.).

D. B-1 Building

1. Provide door stops, as approved, at all doors in the Building.
2. Provide final coat of whitewash to the outside of the building during the dry season (as scheduled with IECO).
3. Provide two tower bolts on both back doors.
4. Test the water system in full use for two consecutive 8-hour periods as called for in Specification Section 22.13D5.

E. C-1 Building and Public Toilet

1. Provide door stops, as approved, at all doors in the building.
2. Provide final coat of whitewash to the outside of the building during the dry season (as scheduled with IECO).
3. Test water system in full use for two consecutive 8-hour periods as called for in Specification Section 22.13D5.

All of the above works are to be accomplished within the six months maintenance period to the satisfaction of the Engineer.

I3 Daudkandi

Site Development: During August roadway shoulders were re-graded to slope away from the pavement, and re-sodded. Material stripped from shoulders was spread in low spots for proper shed drainage. Work on power line transmission poles, cables and guy wires was in progress and scheduled for completion by month's end.

Godown: Linseed oil treatment of columns with color pigment was completed during the month. Electrical installations including the distribution and subdistribution boards, lights, etc. were installed and checked complete and service-ready.

Ancillary Buildings: All remaining work in the ancillary buildings was accomplished including pressure testing of sewer lines and general cleaning of all buildings. The landing slabs of A1 and B1 buildings, originally very rough, were rectified with neat cement finish and the stair railing was rounded and finished. Final touch up works were in progress. Water supply, sanitary and electrical fixtures were installed and checked.

At the end of the month an inspection of this site was carried out by the Engineer in company with EADC and USAID representatives. Site construction was found to be substantially complete with the exception of the following works, which are to be carried out by KDC during the 6 month maintenance period to begin on 1 September 1983:

A. Site Works

1. Embankment aprons and slopes outside entrance gate must be rehabilitated with 6" of clay material and grass sodding, similar to inside gate.

B. Godown

1. Provide one final coat of whitewash of the outside of building during dry season.
2. Provide wooden loading dock bumpers along all truck loading docks as per approved drawings.
3. Provide screens at all weep holes as per approved drawings.

C. Pontoon Area

1. On pontoon gangways replace wooden planks that are severally cracked and provide creosote on underside of all planks.
2. Replace cracked wooden bumpers on pontoon.
3. Re-mortar areas of brick joints on the gabion slope protection works as required by Engineer.

D. A-1 Building

1. Provide final coat of whitewash to outside of building during dry season (schedule with IECO).
2. Provide door stops, as approved, at all doors in the building.
3. Test the water system in full use for two consecutive 8-hour periods as called for in Specification Section 22.13D5.
4. Chlorinate the Water Tanks and System (Accomplish this immediately.).

E. B-1 Building

1. Provide door stops, as approved, at all doors in the building.
2. Provide final coat of whitewash to the outside of the building during dry season (schedule with IECO).
3. Provide two tower bolts on both back doors.
4. Test the water system in full use for two consecutive 8-hour periods as called for in Specification Section 22.13D5.

F. C-1 Building

1. Provide door stops, as approved, at all doors in the building.
2. Provide final coat of whitewash to the outside of the building during the dry season (schedule with IECO).
3. Test water system in full use for two consecutive 8-hour periods as called for in Specification Section 22.13D5.

All of the above works are to be accomplished within the six months maintenance period to the satisfaction of the Engineer.

H1 Feni

Site Development: Due to heavy rains and flooded conditions no fill material could be placed during the month. However, the brick boundary walls (with angles and barbed wire) was completed. Again, no progress was made on the drainage channel during the month. Lack of brick and the heavy rains have been cited as reasons for lack of progress. KDC has been asked to this work during September.

Godown: Some 15,000 cf of under-floor sand fill was placed and compacted during the month. Added to the previous 5,000 cf, this work is 78% complete against 80% planned. The columns and shear walls were 100% completed in August, as were the casting of the roof slab and beams. 11.20 cy of concrete was placed in tie beams and canopies bringing that work to 45%

complete against 100% planned. Erickwork in the godown started during the month and completed up to the first tie beam, about 43% completed against 40% planned.

Ancillary Building: On the C1 building, the 1½" water supply line was installed and tested during the month. KDC has been requested to make the final clean-up and finishing in this building so that it can be completed within the next two months.

Sitework progress achieved during August was 16.7% against 12.9% planned. Overall completion at the end of August was 63.0% against 60.7% planned on the KDC bar chart schedule. This site is to be completed by the end of January 1984. However, it should be completed within this year if current progress is maintained.

04 Darisal

Godown: In August some 48 cy of concrete poured in the columns and shear walls brought that work to 99% complete against the 100% scheduled. Only 152 sf of brick masonry wall was constructed during the month, for 2% complete against 50% scheduled. Concreting of the roof beams and roof slab is expected to start in early September.

Site Development: An additional 20,000 cf of engineered fill was placed and compacted in parking and ancillary building areas during the month, for 95% complete against 100% planned. At month end, the boundary wall was 80% complete against 100% scheduled. Some 11,100 sf of entrance road was paved to bring that work to 21% complete against the 40% planned.

Ancillary Buildings: Erickwork for A1 Building was completed to roof slab level while the structures of D1, C1 and public toilet were completed and plastering of these buildings is in progress. Overall, ancillary buildings at the end of August were about 50% complete against the 30% scheduled.

During August approximately 15.2% construction progress was achieved against 15.7% planned. The overall status of the site construction at the end of August stood at 54.7% complete against the 52.2% scheduled. Darisal is scheduled for completion by end of January 1984.

Q1 Eholu

Godown: During August about 35 cy of concrete was poured in grade beams to bring that work to 98% complete against the 100% scheduled. Approximately 91 cy of concrete was poured in the columns and shear walls to bring that work to 53.4% complete against the 100% planned. About 8 cy of concrete was poured in the tie beams to bring that work to 7% complete against the 100% scheduled. At month end, approximately 30,000 cf of sand fill was placed and compacted inside the godown to bring that work to 46.3% complete against 40% scheduled.

Site Development: In August 5,000 cy of engineered fill was placed and compacted in the ancillary building area to bring that work to 91.5% complete against the 100% scheduled. An additional 105 lf of boundary wall was constructed, for 17.6% complete against the 100% scheduled.

Ancillary Buildings: Erickwork of the A1 and B1 Buildings was completed to the roof slab level. Roof slabs were poured on the C1 and public toilet buildings. Overall progress of ancillary buildings at the end of the month stood at 15% complete against 18% scheduled.

Additional land acquisition proceedings are still in progress and no transfer of the property has yet been finalized, therefore, boundary wall and concrete road pavement work in the affected area has not been accomplished.

During August about 8.5% progress was achieved against 7.0% planned. Overall status of sitework at the end of August stood at 41.5% complete against the 45.4% scheduled. Progress was made against the schedule, but was hampered by rain, and lack of and late arrival of materials. KDC has been requested to mobilize more men, equipment and materials to expedite the work in September in order to accelerate the work. Unless significant expediting is done beginning immediately, this site will not be completed on schedule.

8.3 Zone II (Bogra)

M1 Santahar

Site Development: Concrete pavement was placed at two railway crossings. Ancillary building walkways were also 100% completed.

Godowns: Painting of godown doors was completed. Rectification work on the shear walls of godown East-2 was also completed. Repair of cracks that had developed in plaster work was in progress.

Ancillary Buildings: The installation of door panel and window sash was in progress during the month. Items of work that were outlined in the punch list were in progress; however, only the installation of smoke hoods in kitchens was completed. The installation of wash basins, towel racks, mirrors, shower heads, soap plates, bib cocks and floor drains were completed in all three buildings by the end of the month. At the same time the W.C. and cisterns were being installed. The water tank piping and connections were completed and the pump house constructed. The installation of bracket lights, ceiling lights and ceiling fans was completed in all three buildings. Switch and regulator boards were installed in all buildings as required. The installation of power transmission poles, lines and guy wires was completed by the end of the month.

A final punch list detailing the remaining works to be done was handed to the KDC Site Superintendent. Most items of work were in progress as of the end of the month. However, many items of work remained to be completed and, as such, only minor new works were approved for payment during August. Overall, work at the end of August was 95.2% complete against 100.0% scheduled. Unless considerable effort is made during September to complete the remaining work this site cannot be complete until some time in October 1983.

M3 Bogra

Site Development: KDC's activities during the month were limited mainly to surface dressing and grading, and the repair of slopes and grass sod slope protection. The construction of the rail siding surface drain continued and was about 65% completed. Site work that needs attention includes:

- o Painting entrance and pedestrian gate.
- o Repair joints on road pavements.
- o Repairs to brickwork on aprons and final site dressing.

Godown: The doors and windows of the tally clerk office are being rectified satisfactorily. The remaining work includes providing lead flashing on tally clerk office roof, installation of exterior column expansion joint, replacement of putty on godown windows that is unsatisfactory, and the proper caulking of louvres. Installation of godown door waterstops was in progress during the month.

Ancillary Buildings: The fixing of remaining door panel and window sash was completed by the end of the month, as well as installation of window and verandah grills. In addition, smoke hoods were installed in the kitchens of the A1 and B1 buildings. The final coat of whitewash was provided on the interior of all buildings. Remaining tasks include general clean-up and rectification work on staircases, and some neat cement finishing. All of the remaining water closet long pans and wash basins were installed during the month. Rectification work on the 4" diameter waste water line at the A1 building had not yet been started. Pressure testing of sewer and waste water lines is to be done. Installation of a MAANCO 18" diameter C.I. manhole cover remained pending. Chlorination of water lines, painting of the pump house cover, and rectification work on water system as per the approved shop drawing remained to be completed. For electrical installations, the power pole line was under construction. The entrance gate light fixtures were installed during the month. Other electrical items of work, as mentioned in punch list, remained to be completed.

The overall status of sitework at the end of August stood at 97.5% complete against 100% scheduled. However, KDC expects to complete this site during the month of September 1983.

03 Panchagar

Virtually no work was accomplished at this site during August. Only minor tasks such as painting of doors, window frames and shutters were accomplished but the quality of that limited work was far from satisfactory. A punch list was prepared and submitted to the KDC Site-in-Charge, but none of the items of work on the list were initiated during August. No measurable quantities of work were completed or accepted. Lack of progress was due to the absence of skilled manpower and the lack of technical supervision.

The KDC Zone-II administration wishes to hand over this site on 15th of September 1983. However, only tremendous effort on the part of KDC personnel would make this possible. In the Engineer's opinion, the completion of this site by 30 September is possible if major effort by KDC is initiated in early September.

The overall status of the site construction at the end of August stood at only 92.3%, and the site had been scheduled to be completed in July.

02 Shibganj

Site Preparation: Levelling and dressing of ground surfaces was in progress during the month. The application of bituminous roofing on the guard house roof was completed during the month. In addition, the fixing and tightening of barbed wire fences, the placement of slope protection works and the rectification of expansion joints on road pavements was in progress.

Godown: The repairing of plaster crack in the godown was in progress, as well as rectification of neat cement finishing on railway side platform. Bituminous roofing for tally clerk's office roof was completed and the door and window were being fixed. Work not yet started includes: caulking of louvres; replacement of bad quality window putty; installation of godown door water stops; the final coat of paint for the godown doors and louvres; repair of leaking PVC downspout; and installation of the vertical expansion joint material.

Ancillary Buildings: During the month gravel stops were provided to the C1 building and to the penthouse of A1 and B1 buildings. The last remaining 39 units of window frames reached site during the first week of the month while the window sash and door panels, in sections, reached site on 16 August. The Engineer rejected a substantial number of these door panel and window sash units; however no replacements reached the site as of the end of August. The accepted units were being installed during the month but the rate of progress is very slow. Finishing work on grills and for neat cement finish in the toilets and bath rooms has not yet been taken up. Other remaining work includes: final coat of whitewash; installation of smoke hoods and general cleaning and finishing of the buildings.

Sanitary and Plumbing: The main water supply line was installed and four valve pits constructed. Toilet cisterns were being installed and other plumbing items were in process of installation. KDC has yet to supply the water pump for this site. The water pump house has not yet been constructed and pressure testing of the water system remains pending. Also the rectification of the water supply line system as per the shop drawing has not yet been started.

Electrical Works: Most of the items of work on the punch list have not yet been started. However, arrangements were being made for installing the power pole line.

The status of work remains essentially the same as that of the previous month (95% complete) and no invoice was forwarded by KDC in August. KDC Zone administration hopes to complete this site by the end of October 1983, but this will only be possible with a planned special effort. So far KDC has failed to expedite the work at this site. Additional supervision and a major influx of manpower is required. KDC must require the local Sub-Contractor to complete the work on the ancillary buildings as soon as possible.

L1 Rangpur

Site Preparation: Concreting of the access road pavement was started during the period and approximately 17.0% of that work was completed. Construction of the boundary wall was also initiated however, this was stopped, as the quality of work was not up to specifications. No other activities on site works were on-going.

Godown: Construction of the concrete floor slab was 100% completed during the period. Also, casting of the roof slab and beams was also begun, with some 133.5 cy of concrete placed for about 16% percent of the total. Concreting of the shear walls was 100% complete and 17.1 cy of concrete was poured on bond beams for about 36.0% completion. Placement of brick work in godown walls was in progress, and about 76.0% completed. The overall progress of godown construction is well ahead of schedule as of the end of August.

Ancillary buildings: In the A1 building the brick work for the foundation was completed and both the 10" and 5" masonry walls were built up to the lintel level. The lintels, sunshades and beams on the ground floor were poured, while the false slab over the bath and toilet was also cast.

On the B1 building brickwork of the foundation was completed, and both the 5" and 10" masonry walls were brought up to the lintel level. The concrete for the lintels, sunshades, beams and the false slab were also poured during the period.

On the C1 building the roof slab was poured and completed.

Overall progress on the ancillary buildings stood at 17.2% complete against 50.0% planned or about 32.8% behind schedule at this site.

Sanitary, Plumbing and Electrical Works: During August there were no activities on these works except for placement of electrical PVC conduits in the godown roof and in the C1 building roof slab. Percent completion of electrical work stood at 7.7% against 30% planned.

During August 12.7% progress was achieved against 9.1% planned, and overall completion stands at 55.5% against 52.6% scheduled. This site is scheduled for completion by end of January 1984.

04 Charkai

Site Preparation: Construction of the boundary wall was in progress between monuments 2-3 and 3-4, with brickwork built up to the coping level for a length of some 733 feet. Formwork for pouring coping was in progress. The engineering filling remained suspended for the second consecutive month, and the approach road subgrade has yet to be built to the required level. Fill construction remained at 72.0% complete. Concrete paving remains pending.

Godown: Pouring of concrete for the brick footing on the railside platform was 50.0% complete and the brick work was built up to the required level. Placing and compaction of coarse fill continued throughout the month and was 94.4% complete by month end. The remaining 200-foot long section of the roof slab was poured during August, for 100 percent completion of that item.

At the same time 222 cubic yards of concrete were also poured on the godown floor, for 51.0% completion. In addition, 6.8 cy of concrete was poured in bond beams, bringing that item to 9.2% complete. Overall, construction of the godown was well ahead of schedule at the end of the month.

Ancillary buildings: A1 building construction work was taken up during August and brickwork for the foundation was completed. In addition, the 10" brick walls were built up to plinth level and the DPC poured.

In the B1 building the brickwork for both the 10" and 5" walls was completed up to lintel level on the ground floor. In addition, the lintels, sunshades, beams and stairs were poured.

In the C1 building the brickwork on the foundation was completed and the 10" masonry wall built up to the plinth level.

The estimated percent complete for these ancillary buildings stood at 9.4% against 40.0% planned.

Sanitary, Plumbing and Electrical Works: There were no activities on these works except for the placement of PVC electrical conduits in the godown roof s'at during the month.

Progress of work achieved in August was 11.7% against 14.1% scheduled and at month-end overall progress at this site stood at 51.0% against 53.0% planned. This site is scheduled for completion at the end of January 1984. KDC must accelerate the work on the ancillary buildings in order to meet that schedule.

K5 Atrai

Site Preparation: Essentially little exterior sitework was accomplished during August. KDC attempted to rebuild the embankment slope of the parking area, previously damaged due to rising river water levels and heavy rainfall. Until the placement of common fill on the slopes is accomplished, continued damage and erosion to the engineered sand fill will take place. Placing and compaction of fill material in the parking area remained at 86.0% complete. Gabion work on the pontoon ramp area remains pending until the river level recedes. The 60-foot long pontoon with gangway frame reached the site during August and is being temporarily anchored until the ramp has been completed. Boundary wall construction was started between Monuments 3 and 4 on August 21st and brickwork was completed up to the coping level. The estimated percent complete of all site preparation work was around 41.5%.

Godown: Concreting of grade beams was completed during the period and concreting of columns and shear walls was started. Of the 39 interior columns, 18 were poured complete and the remaining 21 were poured up to 2nd lift level (15'-6"). Of the 32 exterior columns, 22 were poured up to the 2nd lift level and the remaining 10 were poured up to first lift level (8'-0").

Two of the 4 corner columns were poured up to the first lift level. Two shear walls were completed to the eight-foot level, and the brickwork in the godown walls was also started and completed up to first bond beam in all bays. Due to a shortage of coarse sand placing and compacting of coarse sand fill under floor area in the godown could not be started. The bricks for the temporary flooring have already arrived at the site. Forms and staging materials for the roof slab and beams started reaching the site on 23 August; and placing of roof concrete is expected to start in September.

Ancillary buildings: The A1 building brickwork foundation was completed and both 10" and 5" masonry walls were built to lintel level in the ground floor. Concrete for the lintels, sunshades and beams was poured and the false slab over bath and toilet also cast.

The E1 building brickwork foundation was completed and both 10" and 5" masonry wall were built up to roof level. In addition, the concrete for the lintels, sunshades, beams and false slab was also poured.

On the C1 building and public toilet no work progress has yet been made. The estimated percent complete on these buildings stands at 13.0% against the 25% planned.

Sanitary, Plumbing and Electrical Works: No progress on these works was accomplished during the period.

During August only 3.7% progress was achieved against 7.6% scheduled. The site is estimated to be 50.3% complete against the 49.8% planned. Atrial is scheduled to be complete by the end of January 1984. However, KDC must accelerate the work on the godown, ancillary buildings and site works in order to ensure on-time completion.

01 Dinajpur

Site Preparation: The pouring of concrete on the road pavement was started during the period and approximately 1500 sf was completed or about 4.3% of the total requirement. With the exception of this item, no other work was accomplished on exterior site works during the month. Rectification of boundary wall coping has yet to be accomplished by KDC. The overall percent complete of site works was about 55.0% of the BOQ.

Godown: Concreting of the suspended roof slab and beams was 100% complete on 17 August. During the same period approximately 337 cy of concrete was placed in godown floor, for 51.0% completion of that item. Placing and compacting of under-floor coarse sand continued throughout the month and was 100% completed.

Ancillary buildings: KDC finally resumed construction work on the ancillary buildings on 19 August, after a lapse of some 64 days without progress. However, nothing substantial was accomplished except for the pouring of the

C1 building roof slab and some brickwork in the A1 building. The status of individual buildings was as follows:

A1 building: brickwork on second floor has been completed up to bottom level of the windows and work is in progress.

B1 building: brickwork has been completed in second floor up to bottom level of the windows, however, no work was in progress on this building.

C1 building: the roof slab was poured, but no other activities were recorded during August.

Public toilet: the brickwork has been completed up to roof level.

The estimated percent completion of the buildings stood at 14.6% against 50.0% scheduled.

Sanitary, Plumbing and Electrical Works: During August no activities with the exception of the placement of PVC electrical conduit pipe in godown roof slab and in the C1 building roof was accomplished. The percent completion for electrical work stood at 20.3% complete against 30% planned.

During August approximately 12.2% progress was achieved against 7.0% planned, while the overall progress at this site stood at 52.8% against 42.9% planned. Dinajpur site is scheduled for completion by the end of January 1984.

L7 Mahendranagar

Site Preparation: Essentially no work was accomplished on exterior site works during August. The boundary wall has not yet been started although scheduled to be completed in July: lack of bricks being the main problem holding up this construction. KDC has been asked to expedite the supply of bricks and to start the boundary wall construction in September.

Godown: Placing and compacting of coarse sand fill continued throughout the month with 34,500 cf placed for 97.1% completion of the item. The remaining shear walls were poured during the month. Around 50.3 cy of concrete was poured in bond beams and canopies for 61.2% completion. Concreting of the roof slab was 100% completed during the period. Concreting of the godown floor slab was also started and some 1078 cy of concrete placed, bringing that work to 66.2% complete. The construction of brickwork in godown walls was also in progress and was 72.5% complete by the end of August. Construction of the built-up bituminous roofing also started and was 60.6% completed by the end of the month. The overall progress of the godown construction work is running well ahead of schedule.

Ancillary Buildings: On the A1 building the brickwork on the foundation was completed up to plinth level and DPC was poured. The brickwork for both the 10" and 5" walls was in progress.

On the D1 building the layout of the building was made and excavation was in progress.

On the C1 building the brickwork of the foundation was completed and both the 5" and 10" brick walls were brought to lintel level. The lintels, sunshades and beams were also cast during the period.

The overall progress of the ancillary buildings stood at only 7.5% against 30.0% scheduled. KDC must expedite the construction of these buildings.

Sanitary, Plumbing and Electrical Works: No activities with the exception of placing PVC electrical conduit in the godown roof slab was accomplished. The percent completion of electrical work is now 23.2% against 30% planned.

The progress of Mahendranagar work accomplished during August was 18.0% against the planned 12.7%. The overall progress of work stood at 66.1% against 51.2% planned. This site is scheduled for completion by the end of January 1984.

8.4 Zone III (Ishurdi)

K3 Rohanpur

Paving of the concrete road continued during the month and was about 58% completed. Placing of fill for the remaining concrete road and parking areas was in progress.

The godown roof slab and bituminous roofing were 100% completed. The floor slab was started and was about 27.0% complete at the end of the month. Placing and compaction of sand for floor slab and the casting of floor slabs continues, as of the end of August.

The concrete of fifteen interior columns of the godown failed the 28-day compressive test, as well as followup testing of the concrete with the test hammer. These columns were broken out and removed, and re-poured with a redesigned concrete mix to reach 3000 psi in about 7 days. As a result there was no delay to the roof casting operations.

All brickwork and roof concreting were completed during the period in the ancillary buildings and public toilet. Plastering of these buildings was about 90% complete while the outside plumbing work was in progress.

Works for slope protection have not yet started due to heavy rains. The Contractor was requested to submit a schedule for these works, and that schedule was received by the Engineer at the end of the month and was under review at the time of this writing. Revised construction drawings for this work were issued to the Contractor at the end of the month.

Progress during the month was 19.6% against a scheduled 9.5%, while the overall progress now stands at 63.7% against 61.2% planned. This site is scheduled for completion by the end of January 1984.

K2 Amnura

Placing of common fill adjacent to ancillary buildings continued throughout this month and is now 100% complete. All engineered fill except that for the off-site railway siding has now been completed. Brick aprons were constructed around the A-1 Building, completing this item. Sand fill for floor slab on buildings A1, C1 and public toilet was completed and the floor slabs poured. Indoor plumbing works in all buildings were on-going. Fitting of windows and doors in the B1 building was started and the flooring and skirting works were completed in all buildings.

The roofs of tally clerk's offices were poured and plastering of railroad platform sidewall was completed during the period. Installation of electrical wiring for the godown was started and in progress at the end of the month.

Annura work accomplished during August was an estimated 6.1% against 8.3% planned, for overall completion of 89.0% against 79.7% scheduled. This site is expected to be finished by end of October, 1983.

N1 Muladuli

The local access road adjacent to boundary wall was completed and the remaining brick aprons around all ancillary buildings were in place.

The final coat of whitewashing was applied to interior walls of godown and linseed oil painted on surface of columns. All electrical wiring and fittings were installed by the end of August. The only remaining work on the godown is the installation of rubber waterstop at bottom of doors and the timber bumper guards for truck loading platforms. Electric power line have not been installed as the supply line location is yet to be determined by PDB.

All doors and windows in the ancillary buildings and all electrical and plumbing fittings have been installed. Pressure test on water system was completed: however pressure testing of sanitary lines was pending at the end of the month. General clean-up of site and some minor repairs are on-going. The Contractor requested a final inspection of the site, which was performed by the Engineer on 1 September 1983. During that inspection the following items of work were found to be outstanding before certification of this site can be made:

A. Godown

1. Weep hole screens to be installed, as per approved drawings.
- *2. Application of final column paint/linseed oil treatment.
3. Installation of truck loading dock wooden bumpers as per approved drawings.
- *4. Brick wall crack to be repaired.
5. Final coat of whitewash paint to be applied to outside of godown in dry season.

B. Site Works

1. Installation of power poles and lines.
2. Final railroad siding grading.

C. A-1 Building

- *1. Water sample chemical and bacteriological test, pending Department of Health report.
- *2. Sewer line pressure test.

3. Installation of door stops as per approved drawings.
4. Final coat of whitewash on outside of building during dry season.
- *5. Final checking and repairs of water supply well, motor and pump.
6. Roofing repairs (air pockets) - to be accomplished in dry season.
7. Test the water system in full use for two consecutive 8-hour periods as per Specification Section 22.13D5.
- *8. Refix all mirrors.

D. E-1 Building

1. Final outside coat of whitewash paint to be applied during dry season.
2. Installation of door stops as per approved drawings.
- *3. Perform pressure test of sanitary lines.
4. Roofing repairs (air pockets) - to be accomplished in dry season.
5. Test the water system in full use for two consecutive 8-hour periods as per Specification Section 22.13D5.
- *6. Refix all mirrors.

E. C-1 Building and Public Toilet

1. Final outside coat of whitewash paint to be applied during dry season.
2. Installation of door stops as per approved drawings.
- *3. Perform pressure test of sanitary lines.
4. Roofing repairs (air pockets) - to be accomplished in dry season.
- *5. Refix all mirrors.

* All items with asterisks to be accomplished before Certification. Other items to be accomplished during the 6-month maintenance period.

The overall progress of this site at the end of August was 98% against 100% scheduled. With the accomplishment of the works listed with asterisks above it is anticipated that the site can be certified by 15 September 1983.

Pl Satkhira

All items have essentially been completed at this site with the exception of sewer line pressure tests and power pole installation which were on-going at the end of the month. The Contractor has requested a final inspection of this site and the Engineer made that inspection on 31 August 1983. The following works were considered outstanding before this site can be certified as substantially complete:

A. Site Works

- *1. Installation of power poles, lines and guy wires.

B. Godown

1. Installation of water stops on godown doors as per approved drawings.
- *2. Application of linseed oil/paint to interior columns.
3. Installation of wooden bumpers for truck loading docks.
4. Final coat of whitewash of outside of godown to be accomplished in dry season.

C. A-1 Building

- *1. Chlorination of water tanks and supply system.
- *2. Pressure test of all sanitary lines.
- *3. Water quality test for bacteria by Department of Public Health - pending.
4. Final coat of exterior whitewash paint to be accomplished in dry season.
5. Install door stops as per approved drawings.
6. Test the water system in full use for two consecutive 8-hour periods as called for in Specification Section 22.13D5.

D. B-1 Building

1. Final coat of exterior whitewash to be applied in dry season.
- *2. Pressure test of all sanitary lines.
3. Install door stops as per approved drawing.
- *4. Install door handles with locks on back doors or provide two tower bolts.
5. Test the water system in full use for two consecutive 8-hour periods as called for in Specification Section 22.13D5.

E. C-1 Building and Public Toilet

1. Final coat of exterior whitewash to be applied in dry season.
- *2. Pressure test of all sanitary lines.
3. Install door stops as per approved drawings.
4. Test the water system in full use for two consecutive 8-hour periods as per Specification Section 22.13D5.

* The above items indicated by asterisks must be accomplished prior to Certification. Remaining items can be accomplished during the six-month maintenance period.

At the end of August this site was 99% complete and it is expected that all of the items listed above with asterisks can be completed by 15 September 1983 and a Certificate of Completion issued at that time.

S2 Kaliganj

During the period the remaining engineered fill around ancillary buildings and public toilet was completed. Entrance gate hinges were installed, and the placement of grass sodding and slope protection works was in progress.

On the godown, the temporary brick floor was completed, as well as all the truck loading platforms. In addition, the installation and painting of louvres and glass frames was completed. Plastering the inside of the bond beams and the top of wall foundation was in progress.

On the ancillary buildings the floor slab and flooring and skirting was completed on buildings A1, I1 and C1. and plumbing and sanitary works were in progress. Installation of door and windows was on-going, and at the end of the month was approximately 90% complete.

Progress at Kaliganj during August is estimated at 9.6% against 7.0% planned, while the overall completion stands at 90.4% against 88.9% planned. This site is scheduled to be completed by the end of November, but could be completed by end of October, one month ahead of schedule.

T2 Kushtia

During the period the remaining engineered fill was completed around all ancillary buildings and the placement of brick aprons was also completed. In addition, guard houses, entrance and pedestrian gates were completed.

In the godown, the construction of temporary brick floor and installation of all louvres and windows was 100% complete. Except for some minor repairs and the final coat of whitewashing, this godown was essentially completed at the end of the month.

In the ancillary buildings, the concrete flooring, plastering and painting, neat cement finishing and the installation of grills, doors and windows were completed. The flooring and skirting, whitewashing and the installation of sanitary fittings was on-going and about 75% complete. The water supply lines were tested to the required 40 psi pressure and the ancillary buildings are now approximately 90% complete.

The work accomplished during August was 9.6% against 8.0% scheduled, while overall progress stands at 96.2% against 90% scheduled. This site is scheduled to be completed by the end of October 1983.

T1 Chuadanga

During August KDC completed the remedial work of floor slab of godown; this work was found to be acceptable. Except for the application of linseed oil to column surfaces, all other works in the godown have been completed.

On the ancillary buildings all remaining doors, windows and grills were installed. In addition, all sanitary fittings were changed with the approved brands and water system pressure testing was completed. The final coat of whitewashing remains to be done and is scheduled to be applied during the dry season. Installation of power pole line was in progress by the end of the month; otherwise, the site is essentially complete. The Contractor asked for a final inspection of this site; and the Engineer performed this inspection on the 31 August 1983. The following items of work were found to be outstanding prior to Certification of this site:

A. Site Works

- *1. Installation of power poles, lines and guy wires.

B. Godown

- 1. Installation of water stops on godown doors as per approved drawings.
- 2. Installation of loading deck wooden bumpers as per approved drawings.
- *3. Application of linseed oil/paint to columns.
- 4. Final coat of whitewash to outside of godown during dry season.

C. A-1 Building

- *1. Pumphouse and pump repairs to be completed to make facility fully operable.
- 2. Installation of door stops as per approved drawings.
- *3. Water sample and testing of water quality by Department of Public Health - pending.
- 4. Final coat of whitewash on outside of building during dry season.
- *5. Pressure test of sanitary lines.
- 6. Test water system in full use for two consecutive 8-hour periods as per Specification Section 22.13D5.

D. B-1 Building

- 1. Install door stops as per approved drawings.
- *2. Pressure test of sanitary lines.
- 3. Final coat of whitewash on outside of building during dry season.
- 4. Test water system in full use for two consecutive 8-hour period as per Specification Section 22.13D5.

* The items above marked with asterisks must be completed prior to Certification. Other items to be completed during 6-month maintenance period.

At the end of August this site was 99% complete against 100% planned. It is expected that the above items indicated by asterisks can be completed by 15 September and Certificate of Completion issued at that time.

9. CONTRACTOR'S ACTIVITIES

The following are excerpts from KDC's monthly report No. 22 for the month of August 1983.

1. OVERALL PROJECT ACTIVITIES

1.1 GENERAL STATEMENT OF PROGRESS

Overall project completion is estimated to date as 79.1% against a planned 78.7%.

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

Zone - I	Planned	23.5%
	Actual	23.3%
Zone - II	Planned	36.1%
	Actual	36.1%
Zone - III	Planned	19.2%
	Actual	19.7%

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 :	72.6%
Actual Achieved Progress :	72.3%

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

Planned Progress upto Current Period :	78.5%
Actual Achieved Progress :	78.6%

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

Planned Progress upto Current Period :	88.2%
Actual Achieved Progress :	90.5%

All sites are in operation. The certificate of substantial 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

DESCRIPTION	NO.
<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
Datching 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 Same as in July 1983.

II. SPECIFIC SITE ACTIVITIES

1. ZONE - I

1.1 GENERAL STATEMENT OF PROGRESS

Daudkandi-I3

With hand-over to IECO now scheduled for early September, August activities at this site concentrated mainly on activities necessary to complete all finishing work and thus prepare for turning over the site to LADC through IECO.

Some minor finishings to site-work, warehouse and ancillary buildings were all that transpired on this site in August. A small amount of electrical work remains along with the potability test for the drinking water supplied by the KDC-built water supply system.

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

Comilla-I1

With turn-over to IECO for final hand-over to DADC now imminent, final "touch-up" in the site-work and warehouse construction items took place in August. The last remaining work in the ancillary buildings was completed this month with the installation of the remaining steel grills and the wooden doors and windows. Some flooring and skirting work also took place. Also completed this month was sanitary and plumbing installations and work on electrical wiring and fixtures.

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

Feni-H1

Warehouse construction work accounted for the bulk of the work-activity on this site in August. Work accomplished included sand filling in the warehouse floor area, conclusion of concrete pour in the shear walls and columns, continued pour in the tie beams and the roof slab bays with the latter showing good progress this month. Masonry work on the warehouse walls was initiated.

Planned progress to date is 60.7%. Actual achieved progress is 63.0%.

Mymensingh-C2

Work on the brick apron around the warehouse began this month with a fair amount of work accomplished inside the warehouse as well. Sand-fill and compaction in the floor area continued and the 3" flat brick, herringbone pattern, grout sealed temporary floor was begun. Roofing work was initiated and completed in its entirety this month. Also completed was all plastering work and the installation of louvers, vents and windows. Painting work on the warehouse was begun.

Planned progress to date is 89.1%. Actual achieved progress is 94.5%.

Madhupur-D1

Work began on the concrete access road while the warehouse saw the completion of sand-filling in the floor area, installation of part of the plastic vapour barrier and the initiation of concrete pour to the floor slab. Masonry work on the warehouse was completed and plastering work begun. Warehouse door and window installation continued this month and roofing work is expected to begin in September.

Structural work like masonry and concreting work continued in the ancillary buildings. Plastering also began this month.

Planned progress to date is 63.6%. Actual achieved progress is 62.4%.

Melandah Lazar-C4

Work on the concrete access road was completed as was the remaining portion of the property boundary wall.

Sand-filling and compaction inside the warehouse continued along with concreting of the tie beams. The major work activity this month, however, was the initiation and substantial accomplishment of concrete pour in the roof slab. More than half the number of bays had been completed by month's end. Plastering work on the walls was begun.

With foundation work complete, work carried on to the superstructure of the ancillary buildings. Masonry and concreting work continued as all the buildings were constructed past the lintel level.

Planned progress to date is 63.9%. Actual achieved progress is 61.9%.

Netrakona-E2

Further work was accomplished on the concrete road and the property boundary wall during the period under review.

In the warehouse, concreting work began to the roof-slab while concrete pour continued to wall foundations, shear walls and columns. Brick masonry work continued as did sand-filling and compaction inside the warehouse.

All three ancillary buildings were past the lintel level at month's end. Preparations were being made for roof-slab casting in two of the buildings while it was already accomplished in one of the buildings by the end of the month.

Planned progress to date is 53.9%. Actual achieved progress is 52.5%.

Bhola-Q1

One entrance gate and one pedestrian gate were completed this month.

The warehouse saw renewed sand-filling and compaction in the floor area and continued concreting of wall foundations, columns and shear walls. Concrete pour in the roof slab bays was begun this month.

One of the roof-slabs in the ancillary buildings was cast and two more were nearly ready for casting by the end of the month. Some more brick masonry work was also accomplished.

Planned progress to date is 45.4%. Actual achieved progress is 41.5%

Darisal-04

Some 37,500 cubic feet of imported material was placed and compacted in the site area. Work on the concrete access road was initiated and one entrance gate and one gate house was completed. A small portion of the property boundary wall was completed along with a further 345 linear feet of the barbed wire fence. Work on the river bank slope protection continued with the grouting of the brick work gabions.

Concrete pour started to the suspended roof-slab of the warehouse. Concreting work continued in shear walls (now near completion) and columns.

Masonry work was nearly complete in the ancillary buildings along with all concreting work as the buildings approached structural completion. Finishing work like plastering was begun this month.

The marine pontoons were 95% complete.

Planned progress to date is 52.2%. Actual achieved progress is 54.7%.

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	Dumper	1
Feni-H1	Payloader	1		
Mymensingh-C2	Dump Truck	1	Concrete Dumper	1
	Welding Machine	1		
Madhupur-D1	Concrete Mixer	1	Trolley	1
	Water Pump	2	Vibrator	4
	Generator	1	Welding Machine	1
	Crane	1	Payloader	1
Melandha Eazar-C4	Vibrator	1	Generator	1
	Water Pump	1	Payloader	1
	Air Compressor	1	Concrete Mixer	1
	Concrete Dumper	1	Rebar Cutter	1
	Winch	1		
Nurakona-E2	Shovel Tractor	1	Payloader	1
	Mixer Truck	1	Generator	1
	Cranes	1	Conveyor Belt	1
Barisal-Q4	Vibrator Compactor	1	Welding Machine	1
	Tire Roller	1	Crane	1
	Bulldozer	1		
Dhola-Q1	Water Pump	2	Generator	2
	Crane	1	Latching Plant	1
	Payloader	1	Vibrator	3
	Mixer Machine	1	Welding Machine	1

2. ZONE-II

2.1 GENERAL STATEMENT OF PROGRESS

Santahar-M1

No invoice was prepared for this site for August with almost all work complete. The approval of pre-manufactured doors and windows by IECO is still awaited before final installation can begin. It is hoped that a certificate of substantial completion can be received for this site before the end of September.

Planned progress to date is 100%. Actual achieved progress is 95.2%.

Panchagar-03

Some minor work activity on site, considered too small by the site staff for inclusion in the monthly progress payment invoice, was all that transpired at this site during the month of August. IECO prepared a "Punch-list" of finishing activities consisting of mostly minor items was being followed and it is hoped that site completion warranting a certificate of substantial completion can be attained by end-September.

Planned progress to date is 100%. Actual achieved progress is 92.3%.

Logra-M3

Some fill was placed on site to repair washed-off fill areas after the recent heavy rains. The warehouse saw the installation of a wooden door and a window this month leaving almost nothing incomplete in the warehouse.

The ancillary buildings, also almost complete, had the installation of steel grills and wooden doors and windows along with their frames. Painting was complete this month.

It is expected that a certificate of completion would be received in the month of September for this site.

Planned progress to date is 100%. Actual achieved progress is 97.6%.

Shibganj-02

The door and window problem held up site completion at this site too this month. On resolution of this problem, hopefully in September, site completion satisfying conditions for a substantial certificate of completion can be achieved.

Planned progress to date is 100%. Actual achieved progress is 95.0%.

Dinajpur-01

Work started on the exterior concrete road while both the floor and the roof slab of the warehouse showed substantial accomplishment this month. More than half of the roof slab bays was poured this month completing all the required concreting work for this structural member. Concreting work in more than half the floor slab was also accomplished this month.

Work re-started on the ancillary buildings after the cancellation on, IECO's request, of a sub-contract for the construction of the buildings. The last remaining portion of the roof slab in one of the buildings was poured.

Planned progress to date is 42.9%. Actual achieved progress is 52.8%.

Rangpur-L1

Work started on the concrete access road to the warehouse this month and about a quarter of the specified work was accomplished by the end of the month.

Concreting work dominated warehouse activities as pour continued in shear walls and columns bringing work under both items to near-completion. About seventeen cubic yards of concrete was poured for the tie beams and canopies bringing the total to about thirty nine cubic yards poured so far. Concrete pour in the floor slab continued as the installation of the final square-footage of the plastic vapour barrier was completed. Concreting of the roof-slab bays commenced and by month's end more than a quarter of the bays had been completed.

After ground-breaking in July, ancillary buildings saw some significant progress this month with one of the buildings completed to the roof slab. The other two buildings were above the plinth level by the end of the month.

Planned progress to date is 52.6%. Actual achieved progress is 55.5%.

Mahendranagar-L7

Sand filling under the warehouse floor slab, the installation of the plastic vapour barrier on top of the filling and concrete pour in the floor slab on top of the vapour barrier constituted important work activities for warehouse construction in August. Almost two-third of the floor area was completed this month. Concreting of tie beam, canopy and roof slab construction work continued. The sand-filling and the concreting work added up to excellent work progress this month with more than a sixth of total site work completed this month.

With ground-breaking accomplished last month, lean concrete pour and brick footing construction for two of the ancillary buildings were completed this month.

Planned progress to date is 51.2%. Actual achieved progress is 66.1%.

Charkai-04

Sand-filling and compaction was completed in the warehouse under the floor slab. Concrete pour in the floor slab itself also continued and by month's end almost half the floor area had been completed. Important concreting work was also accomplished in the roof slab with only a few unfinished bays remaining at the end of the month. About 2,400 square feet of brick masonry work on the 10" brick masonry wall was also accomplished in August.

Roof slab casting began in one of the three buildings this month. It was the only one of the three buildings complete upto that level. The other two were constructed upto the brick-footing level.

Planned progress to date is 53.0%. Actual achieved progress is 51.0%.

Atrai-K5

Concreting work was begun this month and constituted the bulk of the warehouse construction activities this August. Pour was initiated on wall foundations, columns and shear walls. Masonry work was also started this month and showed substantial accomplishment by month's end.

Work on ancillary buildings this month included concreting work in sunshades and roof slab and brick masonry work in footings and walls.

Planned progress to date is 49.8%. Actual achieved progress is 50.3%.

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
Dogra-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		
Ranapur-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	1
	Winch	1	Water Pump	1
	Mixer Truck	1	Dump Truck	1
	Generator	1	Concrete Dumper	1
	Band-saw	2	Latching Plant	1
	Drilling Machine	1		
Dinajpur-01	Generator	1	Water Pump	2
	Pick-up	1	Dump Truck	1
	Tractor	1	Mixed Truck	1
	Concrete Dumper	1	Vibrator	1
	Soil Compactor	1	Payloader	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	Jeep	1
Atrai-K5	Pick-up	1	Payloader	1
	Water Pump	1	Jeep	1
	Dump Truck	1	Tractor	2
	Mixer Truck	1	Generator	1
	Soil Compactor	1	Compressor	1
	Vibrator	2		

3. ZONE-III

3.1 GENERAL STATEMENT OF PROGRESS

Satkhira-P1

With completion imminent, finishing work continued in August at this site. The gate house was completed and "touch-up" work on fill and paved areas was recorded. Finishing touches were also made in the floor and the roof slats of the warehouse. Painting of the warehouse and the installation of louvers, vents and windows were completed.

Similarly, finishing touches were made in the ancillary building structures.

A certificate of substantial completion is expected in September.

Planned progress to date is 100%. Actual achieved progress is 99.0%.

Chuadanga-T1

Finishing touches were given this month on all categories of construction activity at this site in August. In the exterior site work category, construction of the boundary wall and the gate house was completed.

The warehouse was given similar finishing touches this month particularly in the floor and the roof slab. The roof weather-proofing was accomplished this month in its entirety along with the final phase of the installation of louvers, vents and windows.

The ancillary buildings also received finishing touches as a number of activities were brought to complete or near complete status. Finishing touches were made to the roof and floor slabs in one of the buildings. Door and window installation was completed. Sanitary, plumbing and water supply installation was nearly complete at month's end. The delay in locating the incoming power-line meant that electrical utility work dragged behind to some extent this month. Despite this, IECO is expected to issue a certificate of substantial completion in September.

Planned progress to date is 100%. Actual achieved progress is 99.0%.

Muladuli-N1

About 24,000 cubic feet of filling material was placed and compacted in the site area this month.

A small amount of final paint work was accomplished in the completed warehouse.

Ancillary buildings had continued finishing work this month, with the installation of doors and windows, painting work etc. Sanitary and plumbing fixture installation proceeded along with the completion of the septic tank and twenty-four inspection pits. Electrical utility work also continued but progress in this activity was somewhat subdued reflecting the delay in finally locating the power tapping point. This site should be ready for hand-over in September.

Planned progress to date is 100%. Actual achieved progress is 98.0%.

Kushtia-T2

Both the gatehouses and the brick-paved apron around the warehouse were completed this month. The herringbone pattern brick-soled floor of the warehouse was nearly complete along with wall the installation of the louvers, vents and windows.

By the end of August, all the ancillary buildings were structurally complete and finishing work being done in full swing. Door and window installation and assembly was nearly complete, painting work initiated and a number of other finishing activities were in various stages of completion. Sanitary and plumbing work was begun this month and almost half the specified quantity was accomplished by month's end. A small amount of work on electrical wiring was also achieved this month.

Planned progress to date is 90.0%. Actual achieved progress is 96.2%.

Amnura-K2

A small amount of fill placement, some work on the brick paved apron and the construction of the gate house were the main components of work achieved in the site-work category.

With the warehouse structurally complete, the main work activity at this site concentrated on the ancillary buildings. The major work activity registering this month has been flooring and skirting work in the buildings. A variety of other tasks including grill installation, roofing and flashing, sand filling in the floor area etc. were also accomplished. Work on the sanitary system and the water supply system also continued.

Planned progress to date is 79.7%. Actual achieved progress is 89.0%.

Kaliganj-S2

Construction of the gate house was completed and the last bit of imported fill was put in place.

The warehouse had the brick-soling in the temporary floor completed and the installation of the final square-footage of vents, louvers and windows finished.

The month of August saw substantial work progress on the ancillary buildings. Finishing work like flooring and skirting, and door and window frame and panel/sash assembly constituted the bulk of the work. At the end of the month, the buildings were 73% complete as compared to 34% complete last month.

Planned progress to date is 88.9%. Actual achieved progress is 90.4%.

Rohanpur-K3

About 25,000 cubic feet of engineered fill was placed and compacted on site last month. An additional 7,000 square feet of the concrete paved access road was accomplished. Also accomplished in this period in the site work category was the initiation of work on brick-paved aprons around the warehouse.

Substantial progress was registered on sand-filling in the warehouse floor slab area. Concrete pour in the roof slab bays was almost complete by the end of the month while the floor slab was begun and a quarter accomplished at month end. Roofing work was also substantially complete.

Brick masonry work on the ancillary buildings was nearly complete as was concrete pour in the roof slab. Finishing work like plastering and painting was begun.

Planned progress to date is 61.2%. Actual achieved progress is 63.7%.

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		
Chudanga-T1	Conc. Dumper	1	Water Pump	1
Annura-K2	Concrete Mixer	1	Generator	2
	Pick-up	1	Concrete Dumper	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		

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	18,126.51	1,526,639.79	99.13
Brahmanbaria	1,492,000.00	0	1,492,011.09	100.00
Comilla	2,402,000.00	53,487.52	2,344,687.37	97.61
Mymensingh	710,000.00	104,754.78	668,972.85	94.22
Feni	820,000.00	100,690.13	446,137.13	54.41
Madhupur	1,415,000.00	193,896.34	882,743.64	62.38
Melandah	1,608,000.00	205,006.34	955,618.47	59.43
Netrakona	1,772,000.00	201,437.06	948,547.45	53.53
Larisal	1,660,000.00	204,648.74	908,682.11	54.74
Dhola	2,070,000.00	141,219.06	858,752.44	41.49
<u>ZONE - II</u>				
Santahar	6,095,000.00	0	5,847,887.31	95.95
Dogra	3,111,000.00	22,447.29	3,025,843.81	97.26
Panchagar	1,160,000.00	0	1,057,850.63	91.19
Shibganj	2,132,000.00	0	1,965,633.96	92.20
Rangpur	1,664,000.00	155,994.50	923,616.65	55.51
Mahendranagar	2,930,000.00	547,839.74	1,931,329.36	65.92
Charkai	1,835,000.00	202,846.81	932,197.38	50.80
Dinajpur	1,504,000.00	196,666.75	796,037.82	52.93
Atraf	1,600,000.00	72,964.03	728,303.68	45.52
<u>ZONE - III</u>				
Muladuli	1,600,000.00	57,573.58	1,501,462.06	93.84
Chudanga	2,000,000.00	115,831.46	1,966,807.95	98.34
Amnura	1,670,000.00	100,716.38	1,408,820.73	84.36
Satkhira	1,038,000.00	27,773.21	1,021,138.51	98.37
Kushtia	1,207,000.00	100,884.68	1,084,824.02	89.88
Kaliganj	1,274,000.00	121,436.58	1,057,813.38	83.03
Rohanpur	1,630,000.00	305,361.66	963,898.59	59.13
TOTAL				
(All Sites)	47,939,000.00	3,251,603.15	37,246,258.18	77.70
MATERIALS (NET)	-	(107,173.30)	87,965.16	-
ALL SITES	47,939,000.00	3,144,429.85	37,334,223.34	77.88
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	Dinajpur - 3000 ton godown eliminated	\$ (561,600.17)	\$ 49,438,399.83
002	26 Jan. 82	Cost reduction	Rejected	\$ 49,438,399.83
I1-003	25 May 82	Comilla-Change culvert	\$ (2,510.48)	\$ 49,435,889.35
I3-004	18 May 82	Daudkandi - Remove and recompact fill	\$ 49,610.00	\$ 49,485,499.35
D1-005	16 June 82	Madhurour - Site relocated	\$ (4,293.80)	\$ 49,481,205.55
H1-006	21 July 82	Feni - Farthwork 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

-50-

* Not yet signed and approved.

Cont'd

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 D21, 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
M2-015*	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
O2-016*	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

* Not yet signed and approved.

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

A. Dhaka Office

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

B. Zone I (Mymensingh)

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

C. Zone II (Bogra)

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

D. Zone III (Ishurdi)

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

* Resigned/was terminated in August 1983

** Stationed at Dhaka

DEVELOPMENT CONSULTANCY SERVICES LTD.

FORCE REPORT

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

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

1. Amalendu Debnath	Senior Field Engineer
2. Idris Majumdar	Field Engineer (Daudkandi)
3. S.M. Khelilur Rahman	Field Engineer (Feni)
4. Azmal Khan	Inspector (Comilla)
5. Abdus Sattar	Inspector (Feni)
6. Abul Kalam Azad	Mat. Lab. Tech. (Feni)
7. Nurul Momen Khan	Mat. Lab. Asst. (Feni)
8. S.W.A. Prodhan*	Office Asst.
9. Daliluddin Biswas	Driver
10. Md. Haider*	Driver

Sub-Zone I-B (Mymensingh)

1. Nazrul Islam	Senior Field Engineer
2. Haider Farooq	Field Engineer (Madhupur)
3. Munshi Abu Jaffar	Field Engineer (Malandah)
4. Shafiqur Rahman	Field Engineer (Netrakona)
5. Mohammad Alam	Inspector (Mymensingh)
6. Monowar Ali Khan	Inspector (Madhupur)
7. Zahidul Islam	Inspector (Malandah)
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. Shafiqur Uddin Ahmed	Mat. Lab. Asst. (Sub-Zone I-B)
13. Khurshid Alam	Mat. Lab. Asst. (Sub-Zone I-B)
14. Abdul Malak Fakir	Driver
15. Md. Yusuf Ali	Driver
16. Md. Shahebuddin	Messenger

Sub-Zone I-C (Darisal)

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

C. Zone II (Bogra)

1. Rafiqus Salehin	Senior Field Engineer
2. Mahbubur Rahman	Field Engineer (Zone Lab. In-charge)
3. Nuruzzaman Khan	Field Engineer (Santahar)
4. Habibur Rahman Khan	Field Engineer (Bogra)
5. Abdul Halim*	Field Engineer (Panchagar)
6. Noor Azam Khan	Field Engineer (Panchagar)
7. Kh. Anwar Hossain	Field Engineer (Dinajpur)
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. Susil Chandra Howladar	Inspector (Shibganj)
14. Md. Sekandar Ali	Inspector (Dinajpur)
15. Sheikh Md. Farooq	Inspector (Mahendranagar)
16. Mofazzal Hossain	Inspector (Rangpur)
17. Rabindranath Sarkar	Inspector (Atrai)
18. Ejabuddin Patwary	Inspector (Charkai)
19. Shahjahan Senkar	Mat. Lab. Tech. (Rohanpur)
20. Shamsur Rahman	Mat. Lab. Tech. (Atrai)
21. Sabbir Hossain	Mat. Lab. Tech. (Dinajpur)
22. Abdur Rashid	Mat. Lab. Tech. (Mahendranagar)
23. Golam Mohammad	Mat. Lab. Tech. (Charkai)
24. Raisuddin	Mat. Lab. Asst. (Atrai)
25. Md. Abdul Nader	Mat. Lab. Asst. (Rangpur)
26. Abu Taher	Mat. Lab. Asst. (Rangpur)
27. Suchit Kumar Das	Mat. Lab. Asst. (Mahendranagar)
28. Syed Mohiuddin	Mat. Lab. Asst. (Charkai)
29. Kamrul Hassan Khan	Mat. Lab. Asst. (Dinajpur)
30. Javed Ahsan Mustafa Kamal*	Office Assistant (Rangpur Office)
31. Golam Ahmed Dastagir	Driver (Rangpur)
32. Dulal Chandra Mohanta	Driver
33. Subodh Chandra Das	Driver
34. Md. Belal	Messenger
35. Ali Ahmed	Guard (Bogra Office)
36. Abdul Gani	Guard (Rangpur Office)

55

D. Zone III (Ishurdi)

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

* Resigned/was terminated August 1983.

USAID IMPROVEMENT GRANT

APPENDIX III

IECO CONTRACT 9074

Sheet 1 of 4

CONSULTANCY EXPENDITURE BUDGET

Schedule I	Budget	JOB TO DATE		JULY 1983		Balance
		Dollars	Take As Dollars	Dollars	Take As Dollars	
<u>Resident Consultant Related Cost</u>						
A. Salary	1,029,900	858,002.14	-	21,529.34	-	171,897.86
B. Payroll	1,071,100	892,322.24	-	22,390.51	-	178,777.76
C. Overhead						
D. Air Travel	60,000	54,238.09	606.18	-	-	5,155.73
E. Freight Cost	51,000	31,000.00	3,514.69	-	-	16,485.31
F. Excess Ruggage	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	-	150,476.00	-	8,749.73	20,684.00
K. Furniture & Equipment	77,000	28,464.59	37,952.75	-	-	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	-	8,033.61	-	177.51	10,504.39
	\$ 2,651,159	1,916,164.13	221,602.58	43,919.85	8,927.24	513,392.29
Say	\$ 2,651,000					513,233.29

51

USAID IMPROVEMENT GRANT
IECO CONTRACT 9074

CONSULTANCY EXPENDITURE BUDGET

APPENDIX III
 Sheet 2 of 4

<u>Schedule II</u>	<u>Budget</u>	<u>JOB TO DATE</u>		<u>JULY, 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	97.40	-	-	-	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>

58

Schedule III	Budget	JOB TO DATE		JULY, 1983		Balance
		Dollars	Taka As Dollars	Dollars	Taka As Dollars	
<u>A. Office Rental, Equipment and Maintenance</u>						
1. Dhaka Office	52,860	-	52,817.85	-	116.84	42.15
2. Area Office Including Lab.	25,450	-	22,967.00	-	503.58	2,483.00
3. Furniture & Equipment	55,800	15,331.32	52,341.93	-	46.01	(11,873.25)
4. Office Supplies & Stationery	40,125	12,380.44	27,369.60	-	674.62	374.96
5. Reproduction Cost	54,900	383.88	51,971.84	-	755.92	2,544.28
6. Communication Cost	13,050	60.00	10,478.89	-	314.15	2,511.11
<u>B. Vehicle Operation & Maint.</u>						
1. Vehicle Rental	11,250	-	12,049.13	-	-	(799.13)
2. Vehicle Operation & Maintenance	255,050	-	224,547.99	-	4,057.76	30,502.01
<u>C. Direct Hire Local Admin. Personnel</u>	130,900	-	132,423.98	-	3,597.29	(1,523.98)
<u>D. Soil Testing Charges</u>	33,000	-	30,028.02	-	31.49	2,971.98
<u>E. Subcontract DCS (Table 6B)</u>	993,450	-	776,768.70	-	32,357.82	216,681.30
<u>F. Local Travel</u>	23,500	-	18,734.96	-	1,050.02	4,765.04
<u>G. Misc. Field & Office Expenses</u>	18,000	25.00	14,038.62	-	111.64	3,936.38
	\$ 1,707,335	28,180.64	1,426,538.51	-	43,617.14	252,615.85
Say \$	<u>1,707,000</u>					<u>252,280.85</u>

59

USAID IMPROVEMENT GRANT

APPENDIX III

IECO CONTRACT 9074

CONSULTANCY EXPENDITURE BUDGET

Sheet 4 of 4

Schedule IV	Budget	JOB TO DATE		JULY, 1983		Balance
		Dollars	Taka As Dollars	Dollars	Taka As Dollars	
<u>IECO Headquarter Related Cost</u>						
A. Salaries	93,300	95,955.69	-	1,076.46	-	(2,655.69)
B. Payroll Cost	113,830	116,824.50	-	1,313.28	-	(2,994.50)
C. Overhead Cost						
D. Officers' & Managers' Visits	18,600	20,585.30	-	-	-	(1,985.30)
E. Computer Cost	7,000	12,275.73	-	424.73	-	(5,276.73)
F. Communication Cost	19,500	12,287.42	-	275.64	-	7,212.58
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>263,897.97</u>	-	<u>3,090.11</u>	-	<u>3,332.03</u>
	Say <u>\$ 267,000</u>					<u>3,102.03</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	450,133.36	-	7,266.67		50,866.64
	<u>\$ 5,517,000</u>	<u>2,926,585.85</u>	<u>1,692,894.47</u>	<u>54,276.63</u>	<u>52,544.38</u>	<u>897,518.68</u>
Total Expenditure to Date	=	4,619,481.32				
Percent of Budget Spent to Date	=	83.73%				
Contract Time Elapsed	=	88.76%				

60

OVERALL PROGRESS SCHEDULE

PROJECT: FERTILIZER WEREHOUSE

KOREA DEVELOPMENT CORPOR

LINE NO.	SITE LOCATION	% AGE WT.	1983												'84		REMARKS	
			UPTO	MAR	APR	UP TO MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB			
I ₂	BRAHMAN BARIA	3.11	P		99.5	100												100
			A	99		100	100	100	100									
I ₃	DAUDKANDI	3.21	P		68.3	77.5	96	100										
			A	63.3		86.9	95	98	100									
I ₁	COMILLA	5.01	P		80	88	96	100										90
			A	71.4		84.5	93.0	97	100									
H ₁	FENI	1.71	P		26.3	33.9	39.9	47.8	60.7	75.3	85.7	94.1	96.4	100				
			A	22.6		34.7	41.0	46.3	63.0									
C ₂	MYMENSING	1.48	P		43.3	51.2	63.6	78.2	89.1	98.2	100							80
			A	3.8		54.9	69.1	93.5	94.5									
D ₁	MADHUPUR	2.05	P		22	28.3	37	48	63.6	76.8	85.8	93.0	97.8	100				
			A	20		30.5	39.1	45.3	62.4									
C ₄	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	61.9									
B ₂	NETRAKONA	3.70	P		24.2	30.2	35.7	41.5	53.9	67.7	77.7	90.5	97.4	100				70
			A	19		31	33.5	38.8	52.5									
Q ₁	BHOLA	4.32	P		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	33.0	44.5									
Q ₂	BARISAL	3.46	P		21	24.8	28.7	36.5	52.2	67.9	81.9	94.1	98.6	100				60
			A	16.2		27.5	32	39.5	54.7									
M ₁	SANTAHAR	12.71	P		67.5	93	97	100										
			A	80.7		92.2	92.4	93.2	95.2									
M ₃	BOGRA	6.4	P		98.6	99.5	100											
			A	94.5		94.7	94.8	96.7	97.5									
O ₃	PANCHAGAR	2.42	P		80	88	96.0	100										50
			A	73.4		86.3	87.2	91.0	92.3									
O ₂	SHIBGANJ	4.45	P		90.5	96.0	100											
			A	80.5		87.2	95.0	95.0	95.0									
L ₁	RANGPUR	3.47	P		20.0	28.7	37.6	43.5	52.6	62.8	76.3	85.1	95.9	100				40
			A	14.7		26.2	38.1	42.8	55.5									
L ₇	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	66.1									
O ₁	DINAJPUR	3.14	P		17.1	24.6	30.1	35.9	42.9	52.8	67.8	85.0	93.5	100				
			A	14.3		24.5	32.1	40.6	52.8									
O ₄	CHARKAI	3.84	P		17.1	22.0	30.1	38.9	53.0	65.8	74.5	87.5	97.6	100				30
			A	13.1		22.9	29.5	39.3	51.0									
K ₅	ATRAI	3.34	P		22.4	27.0	35.4	42.2	49.8	61.0	74.4	86.0	96.9	100				
			A	13.5		30.7	38.9	46.6	50.3									
N ₁	MULADULI	3.34	P		72.4	80.0	88.0	96.0	100									20
			A	66.7		83.0	91.1	94.7	98.0									
T ₁	CHUADANGA	4.17	P		83.3	90.0	96.0	100										
			A	75.5		85.9	90.6	95.2	99.0									
K ₂	AMNURA	3.48	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	89.0									
P ₁	SATKHIRA	2.17	P		81.8	90.0	96.0	100										10
			A	75.4		87.1	92.3	96.0	99.0									
T ₂	KUSHTIA	2.52	P		60.6	69.0	76.0	82.0	90.0	97.0	100							ORIGINAL
			A	49.5		68.6	79.3	86.6	96.2								REVISED	
S ₂	KALIGANJ	2.56	P		45.2	64.5	74.7	81.9	88.9	92.9	97.6	100						ACTUAL
			A	31.9		56.9	71.1	80.8	90.4									
K ₃	ROHANPUR	3.40	P		19.0	30.1	41.2	51.7	61.2	71.8	81.9	92.4	97.4	100				
			A	15.5		21.7	35.7	44.1	63.7									
TOTAL		100																APPROVAL
PROGRESS PLAN					54.6	60.8	67.2	72.9	78.7	84.7	90.5	95.4	98.8	100				SUBMIT
PROGRESS ACTUAL					48.8	60.6	66.5	71.8	79.1									REVISE

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61