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BANGLADESH AGRICULTURAL DEVELOPMENT CORPORATION



AGENCY FOR INTERNATIONAL DEVELOPMENT

Grant Financed

FERTILIZER DISTRIBUTION IMPROVEMENT - I (388-0024)

**ENGINEER CONSULTANT SERVICES FOR CONSTRUCTION
OF BAGGED PRODUCT FERTILIZER WAREHOUSES IN
BANGLADESH-PHASE III**

PROGRESS REPORT NO. 26

31 JANUARY 1985



AMMANN & WHITNEY
CONSULTING ENGINEERS
NEW YORK

in association with



WORLDWIDE ENGINEERS LTD.
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DHAKA



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AMMANN & WHITNEY
CONSULTING ENGINEERS

AMMANN & WHITNEY
95, MOTIJHEEL C. A.
P. O. BOX 348
DHAKA, BANGLADESH

WAREHOUSES PHASE III

Project Director, BADC
USAID Construction Project
20, Outer Circular Road
Rajarbagh, Dhaka

724-4.1.1/2852

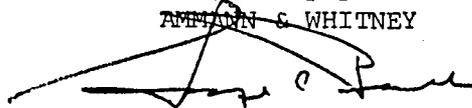
06 February 1985

Subject : Monthly Progress Report No.26
- January 1985

Dear Sir,

In compliance with paragraph B.2 of Appendix A, Scope of Work, of Agreement for Engineer Consultant Services - Warehouses Phase III, fifteen (15) copies of subject Monthly Report are submitted to BADC and six (6) copies to USAID.

Very truly yours
~~AMMANN & WHITNEY~~



George A. Pecht
Project Manager

Encl: Eleven (11) copies

GAP/neh

cc: Chairman, BADC w/encl.(1)
Member-Director (Irri) BADC w/encl. (1)
Manager (Storage) BADC w/encl.(1)
Chief Engineer (C) BADC w/encl.(1)
Mr. David E. Warner, CE, AID/D w/encl. (6)
File 724-1.4.2 w/encl.

AMMANN & WHITNEY
Consulting Engineers

FERTILIZER WAREHOUSES - PHASE III

Monthly Progress Report No. 26
Month of January 1985

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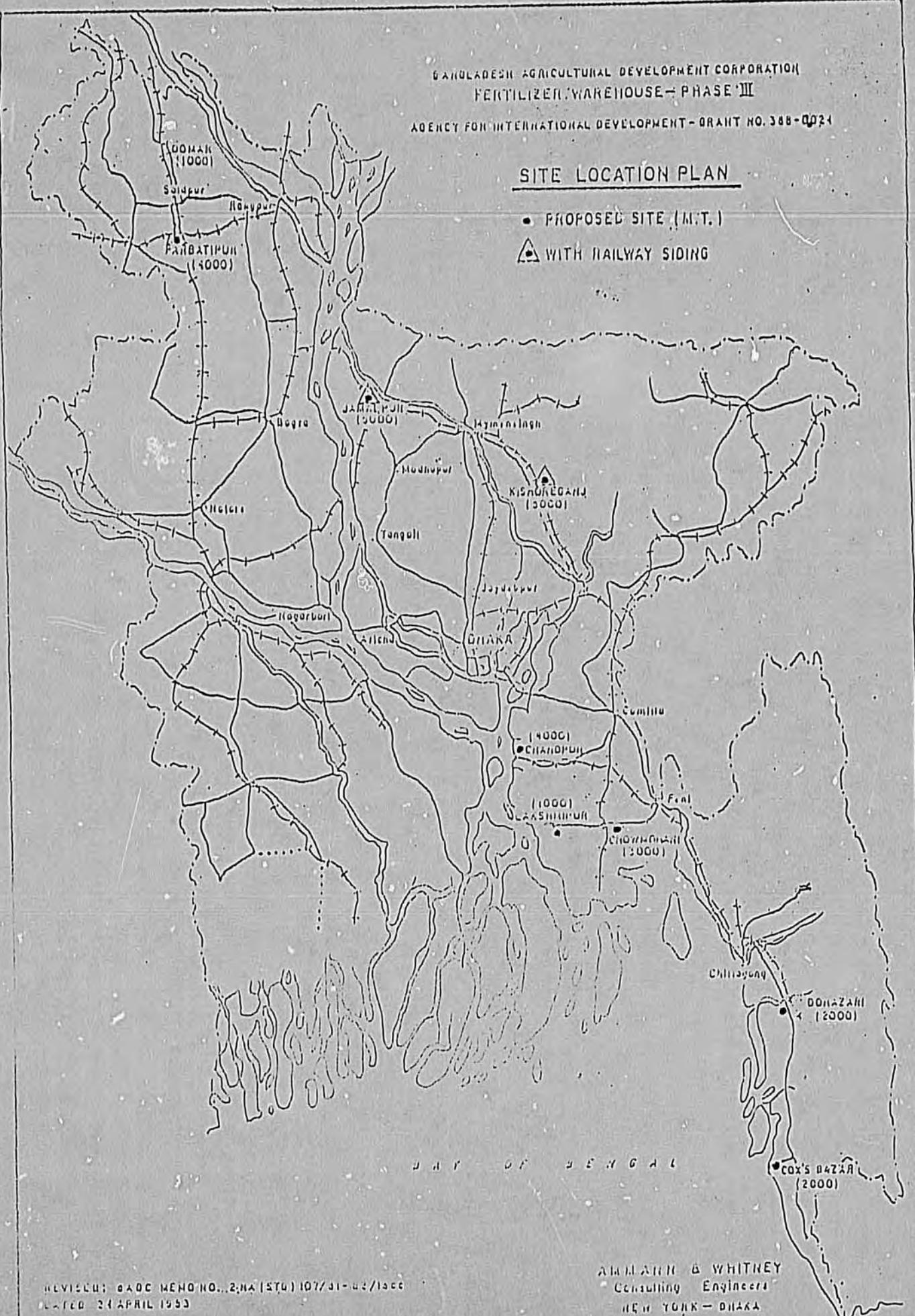
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BANGLADESH AGRICULTURAL DEVELOPMENT CORPORATION
 FERTILIZER WAREHOUSE - PHASE III
 AGENCY FOR INTERNATIONAL DEVELOPMENT - GRANT NO. 388-0024

SITE LOCATION PLAN

- PROPOSED SITE (M.T.)
- ▲ WITH RAILWAY SIDING



BAY OF BENGAL

PROJECT DESCRIPTION

PROJECT : Construction of Bagged Product Fertilizer Warehouses
in Bangladesh - Phase III

EMPLOYER : Bangladesh Agricultural Development Corporation

FINANCED : United States Agency For International Development
Under Grant
Fertilizer Distribution Improvement-I (388-0024)

ENGINEER : Ammann & Whitney
Consulting Engineers
New York Dhaka

LIST OF SITES AND TONNAGE

<u>NAME OF SITE</u>	<u>TONNAGE</u>	<u>NAME OF DISTRICT</u>	<u>SIZE OF GODOWN</u>
B1 KISHOREGANJ	5000	MYMENSINGH	90'x 300' (27,000 sft)
C3 JAMALPUR	5000 (3500+1500)	JAMALPUR	120'x150'; 90'x90' (26,100 sft)
F1 DOHAZARI	2000	CHITTAGONG	90'x 120' (10,800 sft)
F3 COX'S BAZAR	2000	CHITTAGONG	90'x 120' (10,800 sft)
H2 CHOWMUHANI	3000	NOAKHALI	90'x 180' (16,200 sft)
H3 LAKSHMIPUR	1000	NOAKHALI	60'x 90' (5,400 sft)
I4 CHANDPUR	4000	COMILLA	120'x 180' (21,600 sft)
O5 PAREATIPUR	4000	DINAJPUR	90'x 240' (21,600 sft)
TOTAL	26,000 M.T.		139,500 sft
<u>Contract Terminated</u>			
L4 DOMAR	1000	RANGPUR	60'x 90' (5,400 sft)

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I. CONTRACTOR'S ACTIVITIES

CONSTRUCTION PHASE

1. Summary of Contractor's Activities

The work at all sites, except Lakshmipur, progressed at a slow pace during this month.

The total percentage of work completed this month was 3.7% and work plus material was 5%. Ten percent (10%) was scheduled for completion. The total percent of work completed is 46% against 67% scheduled. The diverging trend is of concern and requires action against the contractors i.e. demand on performance guarantee.

The fact that liquidated damages for late completion may be assessed does not seem to have entered their thinking. Therefore, the Engineer recommends for consideration of BADC to bar the Contractors from participating on any new construction for a time period to be determined.

Kishoreganj:

Godown masonry walls and concrete work continued. Slowly the roof forms were started. Concrete in 14 columns has to be removed due to strengths not meeting specifications. At R1 ancillary building the fill up to the foundation level was placed. The R2 roof slab was cast and some finishing work was done. The construction of the boundary wall continued.

Only 3% of the work was accomplished this month. A timely completion does not appear possible.

Jamalpur:

The 3500 MT godown has been nearly completed to the roof level and the forming of roof beams has started. The construction of columns and masonry walls at the 1,500 MT godown is going on. The filling of access road and railway siding is in process. The roof slab of R1 was cast. Window and door fabrication and installation is going on at the ancillary buildings.

The progress with 5% of the work done this month is still too slow to assure a timely completion.

Dohazari:

At the godown the columns have been cast and the brick wall construction continues. Most of the structural work for the ancillary buildings has been completed. The contractor laid the pipe culvert under the entrance road but has not constructed the end wall prior to laying the pipe. No filling is being done at the site although this work is independent of other work. No forms for the godown are being prepared.

Dohazari (Cont'd)

The Contractor completed 7% of the work this month while he should have done 10% or more. He is 1/4% behind schedule. With the present pace of activities a timely completion does not seem to be possible.

Cox's Bazar

The finishing work on the ancillary buildings continues. Part of the godown roof was finally cast. The progress for work and materials was 2% while 10% should have been done to complete the work in 3 months. The pavement was not started neither was the deep tube well. 33% of the work remains to be done in three remaining months.

BADC has not handed over the land for the river access nor approved the Engineer's design for it. It becomes more and more problematic if a river access will be build at all.

Chowmuhani

Godown columns and brick walls are in progress. The structural work on R2 and R3 buildings is nearly finished; R1 is up to the floor level. Filling of parking areas continues.

Only 5% of work was completed this month even though this contractor made a determined effort to work on all parts of the project. The Contractor is 13% behind schedule.

Lakshmiapur

The godown roof is being finished. Most of the pavement was placed. The deep tube well drilling was started then stopped at 420' because of a cave-in. It will be continued with bentonite.

The project should be substantially complete by end of February.

Chandpur:

Work proceeded on the ancillary buildings, the river retaining wall and the boundary wall. Little work was done at the godown. Some forms were slowly erected; some reinforcing placed; and, no bricks were laid. The form work continues at the contractor's leisure.

The work completed this month was only 3%. It should have been over 10%. A complete date of 30.6.85 does not seem possible.

Approval of a change order for the retaining wall at the Sen Gupta Road is urgently required.

Removal of 2 shops at the Sen Gupta Road is required to built the access bridge.

Parbatipur:

The godown foundations were finished. Columns and grade beam casting is in process. The masonry work was started. The structural work at R3 continues as does the finishing of R1 and R2. The railroad embankment is being placed.

Lack of material and inability of the contractor to control skilled labor still hamper the project. The amount of work accomplished has improved some what although it may be to early to call this a lasting change.

The Contractor is 22% behind schedule.

2. Railway Siding

Kishoreganj

BADC has deposited Tk.1,35,150.00 toward license fee for 0.61 acres of land at Kishoreganj. Physical demarcation of the area has been done by BR during January.

Speed restriction boards are to be fixed at Kishoreganj by BR. Follow up by BADC is requested. Refer letter No.724-4.1.1/2466, dtd.27.10.84.

Jamalpur

Contractor has started stripping of the area outside BADC property for doing earthwork in Rly embankment.

Parbatipur

BADC is requested to resolve the issue arising out of lease of Rly land including existing dead end meter gauge track to Coal Directorate. The existing dead end track is required for access to the BADC warehouse. Refer letter No.724-4.1.1/2495 dated 3.11.84.

BADC to request BR to take action for removal of box cars, carriages etc. from portion of alignment of the proposed siding at Parbatipur to enable the contractor to do the embankment work uninterrupted.

BADC to obtain approval from BR for suppliers drawing for the mixed gauge turn-out send to BR by BADC.

Cost Estimates

Cost estimates for Jamalpur and Kishoreganj received from BR have been sent to BADC with Engineer's comments. BADC is requested to resolve the issues arising out of provisions made in the estimates to which Engineer could not agree since they were exorbitant.

Cost estimate for Parbatipur has not yet been received from BR. BADC is requested to obtain the estimate for Parbatipur from BR.

Contractor's Activities

Date : 31 January 1985

CONSTRUCTION CONTRACT AND FINANCIAL SUMMARY

	<u>L.C. Amount US \$</u>	<u>L.C. Equivalent (Tk)</u>	<u>Revised Contract Amount (Tk)</u>	<u>Retention (Tk)</u>	<u>Accumulated Amount Invoiced (Tk)</u>
Invitation No.1	B1-Kishoreganj	National Construction & Consult Ltd.			
L.C. 388-002403	797,885.00	1,98,40,012.82	-		
Change Order B1-01*		(- 88,848.31)	1,97,51,164.51	5,71,366.51	78,85,153.58
Invitation No.2	C3-Jamalpur	Mostafa Brothers (Pvt) Ltd.			
L.C. 388-002404	711,599.00	1,76,94,451.01	-	5,25,416.40	69,99,565.18
Invitation No.3	F1-Dohazari	The Eastern Engineers Consortium Ltd.			
L.C. 388-002405	625,317.00	1,55,48,978.95	-	5,85,563.57	63,40,572.19
Invitation No.4	F3-Cox's Bazar	Builders The Best Ltd.			
L.C. 388-002406	400,731.00	99,64,470.85	-		
Change Order F3-01 *		5,01,819.78	1,04,66,290.63	4,87,043.96	53,37,395.62
Invitation No.5	H2-Chowmuhani	Technocon Limited			
L.C. 388-002407	567,863.00	1,41,20,342.60	-		
Change Order H2-01		6,680.00	1,41,27,022.00	4,98,924.71	62,37,430.44
Change Order H2-02*		3,80,099.25	1,45,07,121.25		

5

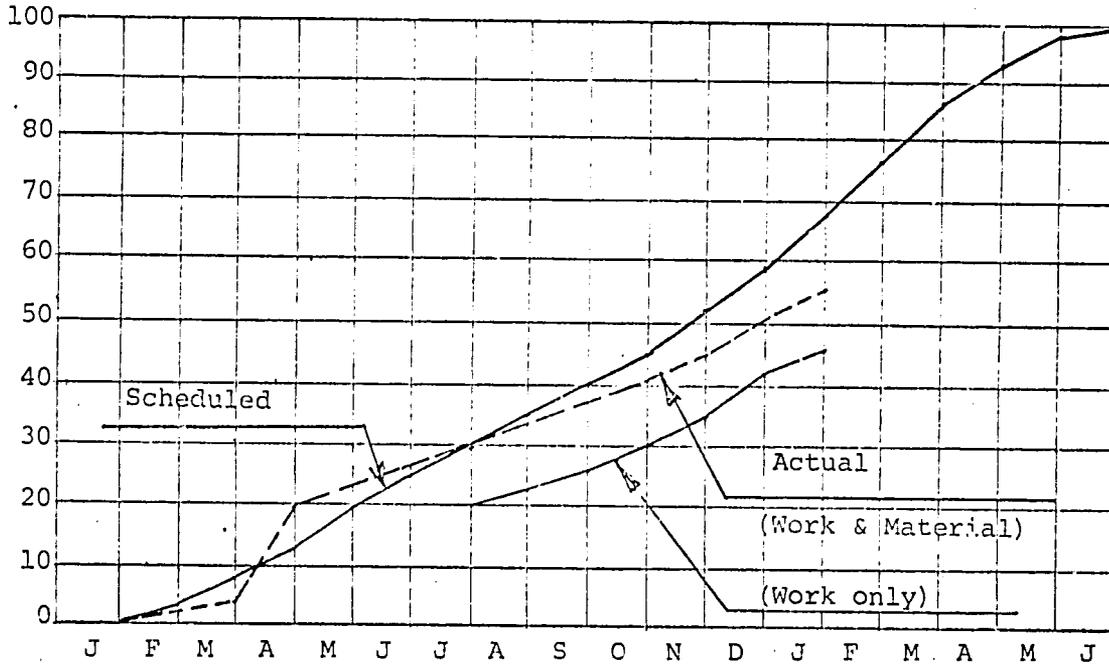
CONSTRUCTION CONTRACT AND FINANCIAL SUMMARY - cont'd

	<u>L.C. Amount US \$</u>	<u>L.C. Equivalent (Tk)</u>	<u>Revised Contract Amount (Tk)</u>	<u>Retention (Tk)</u>	<u>Accumulated Amount Invoiced (Tk)</u>
Invitation No.6	H3-Lakshmipur	Technocon Limited			
L.C. 388-002408	224,858.00	55,91,275.35	-		
Change Order H3-01		5,000.00	55,96,275.35	2,82,208.01	36,01,263.27
Change Order H3-02		80,700.00	56,76,975.35		
Change Order H3-03		(- 32,815.00)	56,44,160.35		
Invitation No.7	I4-Chandpur	Fazle Azim Engineers Ltd.			
L.C. 388-002409	686,398.00	1,70,67,822.35	-		
Change Order I4-01		11,440.00	1,70,79,262.35		
Change Order I4-02		2,45,520.00	1,73,24,782.35	5,13,392.93	72,78,536.32
Change Order I4-03*		9,07,240.00	1,82,32,022.35		
Change Order I4-04*		5,39,043.50	1,87,71,065.85		
Change Order I4					
Invitation No.8	L4-Domar.	M.S. Khan & Heirs Ltd.			
L.C. 388-002410	301,590.00	74,99,255.00	-		
Terminated : Engineer's Assessment of Claim			5,83,083.62		
Invitation No.9	05-Parbatipur	The Elite Engineers Ltd.			
L.C. 388-002411	683,759.00	1,70,02,196.40	-	6,08,219.40	65,25,974.60
Change Order 05-01*		- 500.00	1,70,01,696.40		
TOTAL :	5,000,000.00	12,43,28,805.91	11,99,68,012.57	40,72,135.49	5,02,05,891.20

* Pending Approval

41.85%

CONSTRUCTION PROGRESS - ALL SITES



	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	Weighted Percent	Project % Complt.
Kishoreganj	5	11	16	20	25	29	33	35	39	47	56	64	73	82	91	98	100	16.97	9.0
	0	1	20	20	20	26	28	33	35	45	51	53							
Jamalpur	3	8	14	19	23	27	31	34	39	46	55	63	72	81	90	98	100	15.35	8.4
	0	2	18	19	21	25	31	36	40	44	50	55							
Dohazari	4	10	16	22	30	38	43	48	51	55	60	69	79	87	94	99	100	13.31	6.9
	0	1	21	24	32	32	34	39	42	47	49	55							
Cox's Bzr	2	7	12	18	24	32	40	50	59	67	76	85	93	98	100			8.53	5.7
	0	1	27	37	42	36	41	51	57	60	65	67							
Chowmuhani	2	8	15	21	28	33	37	40	43	48	54	65	75	84	92	98	100	12.09	6.3
	0	1	13	18	33	33	34	39	39	41	48	52							
Lakshmipur	2	9	16	22	30	37	46	56	67	77	88	98	100					4.79	4.3
	0	8	30	36	39	39	43	51	54	68	81	89							
Chandpur	1	4	9	14	19	24	30	35	41	48	56	65	74	84	93	98	100	14.61	7.6
	0	1	11	18	26	29	34	38	43	47	49	52							
Parbatipur	2	9	16	23	30	33	36	39	42	48	56	65	74	83	92	98	100	14.55	6.3
	0	1	17	17	27	28	29	30	30	32	38	43							

Note : Schedule based on BADC allowing time extension
to February/April/June 1985

Total : 54.5
Last Month : 50.8

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CONSTRUCTION PERCENT COMPLETION

Site	- A - SITE DEVELOPMENT	- B - WAREHOUSE	- C - ANCILLARY BUILDINGS	- D - WATER SUPPLY SANITARY	- E - ELECTRICAL	TOTAL
Kishoreganj	73%	27%	40%	5%	5%	43%
Jamalpur	57%	34%	57%	3%	8%	42%
Dohazari	68%	30%	55%	7%	4%	48%
Cox's Bazar	69%	62%	84%	33%	27%	64%
Chowmuhani	61%	27%	44%	10%	2%	42%
Lakshmipur	92%	92%	100%	35%	32%	87%
Chandpur	56%	38%	27%	5%	2%	40%
Parbatipur	45%	29%	55%	11%	2%	37%

Overall Project Completion - (Work Items Only) : 46%
Last Month : 41%

8-I

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INVITATION NO. : B1-KISHOREGANJ

CONTRACTOR : National Construction & Consult Ltd.

Total Contract Price : Tk.1,98,40,012.82
 Change Order/Directives : (-) 88,848.31*
 Revised Contract Price : Tk.1,97,51,164.51*
 L/Com No. : 388-002403
 Date of L/Com. : 31.01.84
 Amount of L/Com. : Tk.1,98,40,012.82
 (\$797,885.00)

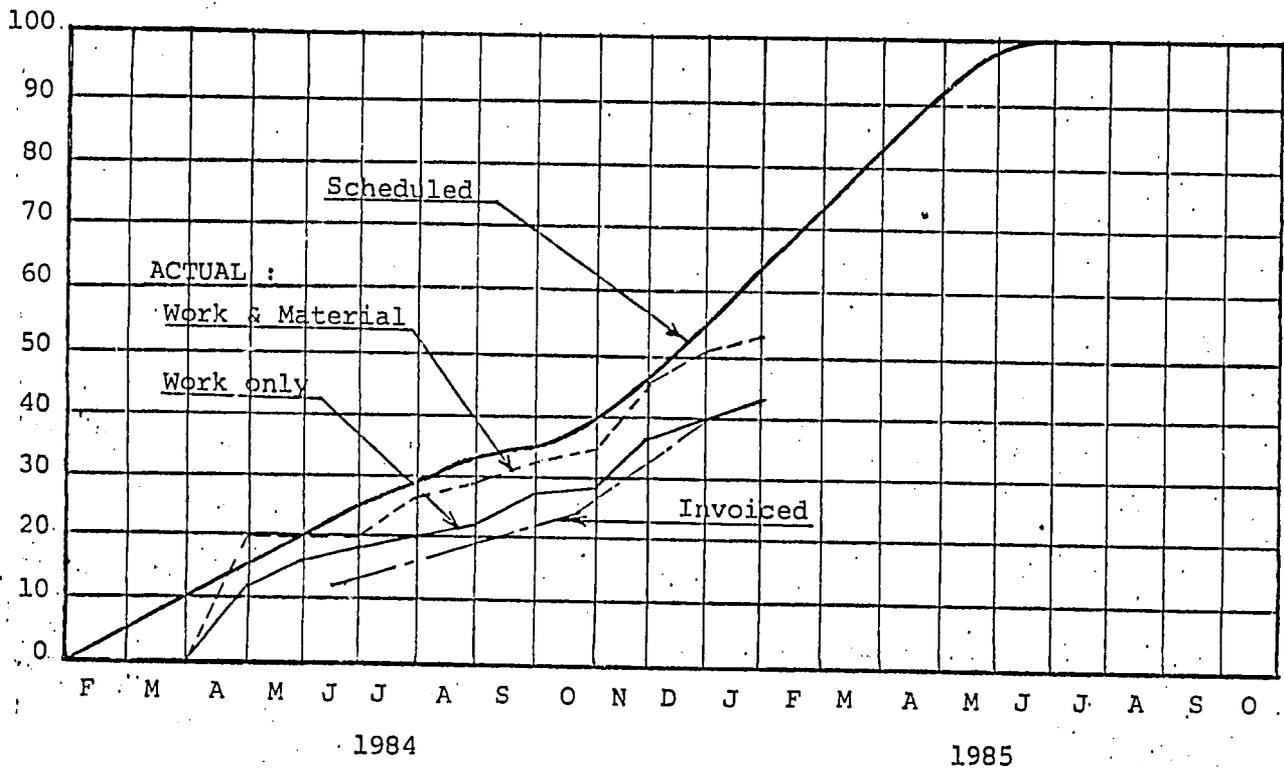
Date of Contract : 16.01.84
 Site Handed Over : 29.01.84
 Notice To Proceed : 02.02.84
 Scheduled Completion: 30.06.85 (494)
 Elapsed Time : 365 days .74 %

L/Com. Amendment No.1 :
 Performance Guarantee : BCCI LG 84/75
 Tk.19,84,002
 CAR/PL Insurance : DAC/CAR/P-09/4/84
 30.04.84

%Completion			
Scheduled		Actual	
This Period	To Date	This Period	To Date
8%	64	2%	53%
Work	:	3%	43%
Material	:	- 1%	10%

* Pending Approval

CONSTRUCTION PROGRESS



	<u>This Period.</u>	<u>To Date</u>
A. Site Development	2%	73%
B. Warehouse	5%	27%
C. Ancillary Buildings	6%	40%
D. Water Supply, Sanitary, Plumbing	-	5%
E. Electrical	-	5%

Activities

The contractor continued with the brick work, canopy and column casting at the godown. Unfortunately the concrete for parts of 14 columns will have to be removed. It did not reach the required 28-day concrete strength of 3000 psi because the cement used was too old. The contractor had been warned repeatedly to use cement from wholesalers with a good turn-over but continued to buy cement from small retailers who may have kept cement in their storage for a long time. The columns are being removed at present. The erection of roof forms was started.

The filling for ancillary building R1 was completed. At R2 the roof was cast and at R3 the stairway roof. The plastering of R3 was started. The boundary wall construction continued.

The work done this month amounted to only 3% of the project total.

Action Required

- BADC: . Pursue BR to remove abandoned rails and ties (their property).
- . Have BR review their cost estimate for railway siding (which is inflated).

Work Scheduled Next Month

Understrength part of godown columns to be removed. The masonry wall, column casting and form erection to continue at the godown. The foundation and walls will be started at R1, plastering, installation of windows, door installation to continue at R2 and R3.

Claim

Contractor's letter AK62 of 19.12.84, claim B1-15 for extension of completion time. Rejected by A&W letter #2710 of 1.1.85.

Financial

<u>Invoice No.</u>	<u>Item</u>	<u>Amount Invoice (Tk)</u>	<u>Payment</u>	<u>USAID Voucher No.</u>
B1-01	Material Prepayment	21,57,900.00	21,57,900.00	1451
B1-02	Progress Payment	28,31,830.22	28,10,013.22	171
B1-03	Progress Payment	29,17,240.36	29,17,240.36	0514

Variations (Change Orders, Overruns, Underruns)

None this month

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CONSOLIDATED MATERIALS TESTING REPORT

Project: Fertilizer Warehouses Phase III

For the month January 1985

Site : Kishoreganj

Material/Test	Spec. No.	No. of Tests	No. App- roved	No. Dis- Approved	Remarks/Requirement
A. Select Fill	2E.01-a	8	7	1	F.M. 1.5
B. Concrete Sand	3A.02-b.1	4	3	1	F.M. 2.3 to 3.1
C. Mortar Sand	4A.03	1	1	0	F.M. 1.8 to 2.8
D. Concrete Coarse Aggregate	3A.02-b.2	10	6	4	
E. Field Density Tests: Select Fill	2E.01	25	23	2	90% & 95% MDD

No. of test at
3 days 7 days 28 days

F. Concrete: Compressive Strength Test	3A.03 3A.05	25	52	
----------------------------------------------	----------------	----	----	--

Average 28 day Strenght of Corcrete:

1. Godown footing & Columns - 3483 PSI (Av. of 21 cylinders)
2. Golown footings - 3219 PSI (Av. of 3 cylinders)
3. Godown columns - 3572 PSI (Av. of 15 cylinders)
4. Godown columns - 2503 PSI (Av. of 6 cylinders) 14 Nos. of columns to be removed.
5. Godown Gradebeam - 3644 PSI (Av. of 6 cylinders)
6. Concrete core for godown R.B. Wall - 3352 PSI (Av. of 4 cylinders)

INVITATION NO. : C3-JAMALPUR

CONTRACTOR : Mostafa Brothers (Pvt) Ltd.

Total Contract Price : 1,76,94,451.01

Change Order/Directives :

Revised Contract Price. :

L/Com No. : 388-002404

Date of L/Com. : 31.01.84

Amount of L/Com. : Tk.1,76,94,451.01
(\$711,599.00)

L/Com. Amendment No.1 :

Performance Guarantee : Indosuez PB/TK/010
Tk.17,69,446

CAR/PL Insurance : DAC/CAR/P-8/84

Fidelity Bond : Indosuez PG/TK/018
Tk.8,84,720

Date of Contract : 12.01.84

Site Handed Over : 19.01.84

Notice To Proceed : 02.02.84

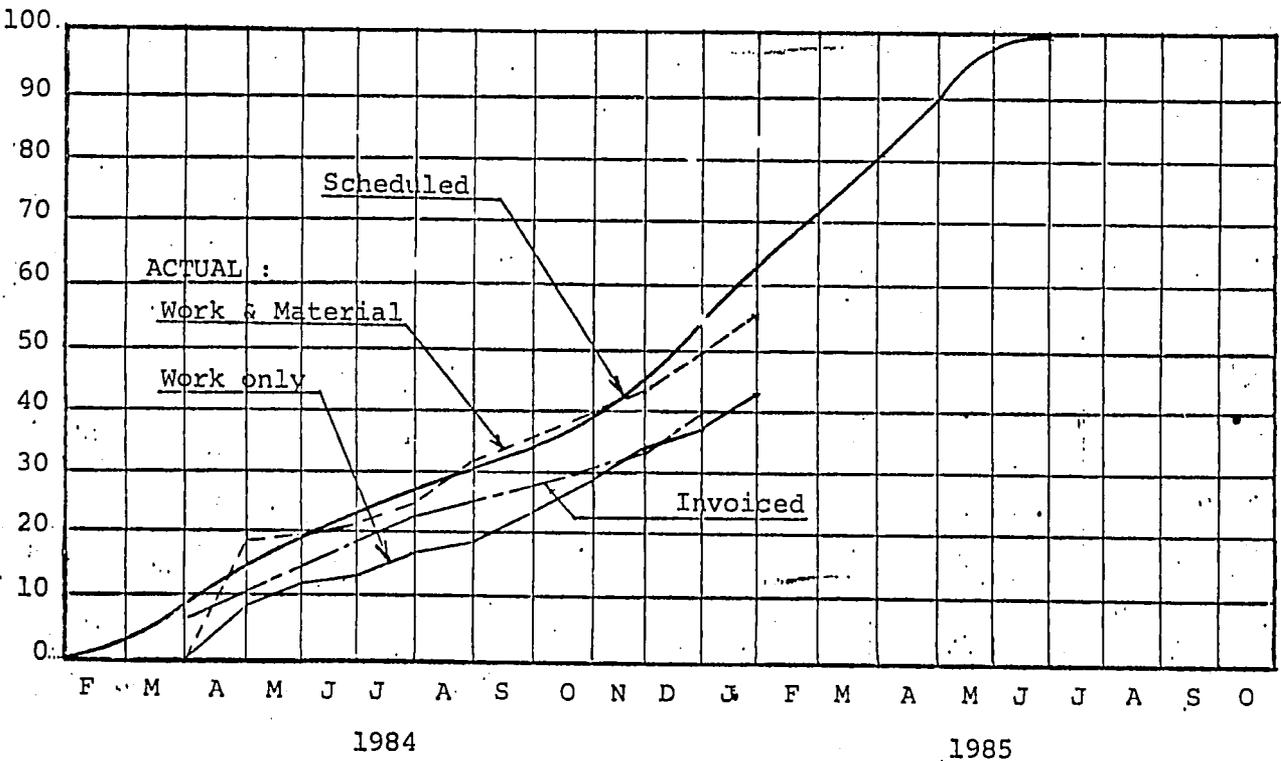
Scheduled Completion: 30.06.85(494)

Elapsed Time : 365 days . 74%

%Completion			
Scheduled		Actual	
This Period	To Date	This Period	To Date
8%	63%	5%	55%
Work		5%	42%
Material		-	13%

* Pending Approval

CONSTRUCTION PROGRESS



	<u>This Period.</u>	<u>To Date</u>
A. Site Development	1%	57%
B. Warehouse	8%	34%
C. Ancillary Buildings	8%	57%
D. Water Supply, Sanitary, Plumbing	-	3%
E. Electrical	-	8%

Activities

At the godowns nearly all columns have been poured. At the 3,500 MT godown most of the brick walls and all canopies have been constructed. The form work for the roof has been started. The masonry and canopy forming is in process at the 1500 MT godown. Filling of access road and railway siding continues as does the boundary wall construction. The roof slab of the R1 building and the stairway slab of the R2 building were placed. The fabrication and installation of doors and windows for all ancillary buildings is going on.

Action Required

BADC : Obtain revised estimate for siding from BR.

Work Scheduled Next Month

The main work to be done in February is the forming of the first half of the roof for the 3,500 MT godown. The masonry work on the 1,500 MT godown will continue. The filling of the access road and railway siding with surcharge material will be going on. The ancillary building R1 will be structurally finished. Doors and windows will be installed at R2 and R3.

Claims

Mostafa Brother's letter 525 of 26.12.84 claim for unspecified price increase due to hartal. Rejected by A&W letter 2722 of 5.1.85.

Financial

<u>Invoice No.</u>	<u>I t e m</u>	<u>Amount Invoice (Tk)</u>	<u>Payment</u>	<u>USAI Voucher No.</u>
-	Mobilization Advance	8,84,720.00	8,84,720.00	1059
C3-01	Material Prepayment	13,27,696.00	13,27,696.00	1226
C3-02	Progress Payment	18,64,836.23	18,64,836.23	1607
C3-03	Progress Payment	8,62,230.34	8,62,230.32	127
C3-04	Progress Payment	9,13,152.12	9,13,152.12	322
C3-05	Progress Payment	11,46,930.49	11,46,930.49	0578

Variations (Change Orders, Overruns, Underruns)

None this month.

CONSOLIDATED MATERIALS TESTING REPORT

Project: Fertilizer Warehouses Phase III

For the month January 1985

Site : Jamalpur

Material/Test	Spec. No.	No. of Tests	No. Approved	No. Dis-Approved	Remarks/Requirement
A. Concrete Sand	3A.02-b.1	2	2	0	F.M. 2.3 to 3.1
B. Mortar Sand	4A.03	2	2	0	F.M. 1.8 to 2.8
C. Concrete Coarse Aggregate	3A.02-b.2	5	3	2	
D. Bricks: Frogmark:RBC	4A.02	5	5	0	
E. Field Density Tests: Select Fill	2E.01	26	21	5	95% MDD

No. of test at
3 days 7 days 28 days

F. Concrete: Compressive Strength Test	3A.03 3A.05	28	36		
----------------------------------------------	----------------	----	----	--	--

Average 28 day Strength of Concrete:

1. 3500 M.T. Godown Columns - 3721 PSI (Av. of 15 cylinders)
2. 1500 M.T. Godown Columns - 3341 PSI (Av. of 10 cylinders)
3. 1500 M.T. Godown Grade beam - 4002 PSI (Av. of 6 cylinders)
4. R₁ 1st floor slab - 4262 PSI (Av. of 3 cylinders)

INVITATION NO. : F1-DOHAZARI

CONTRACTOR : The Eastern Engineers Consortium Ltd.

Total Contract Price	: Tk.1,55,48,978.95	Date of Contract	: 16.01.84
Change Order/Directives	:	Site Handed Over	: 26.01.84
Revised Contract Price	:	Notice To Proceed	: 02.02.84
L/Com No.	: 388-002405	Scheduled Completion	: 30.06.85(494)
Date of L/Com.	: 31.01.84	Elapsed Time	: 365 days 74%

Amount of L/Com. : Tk.1,55,48,978.95
(\$625,317.00)

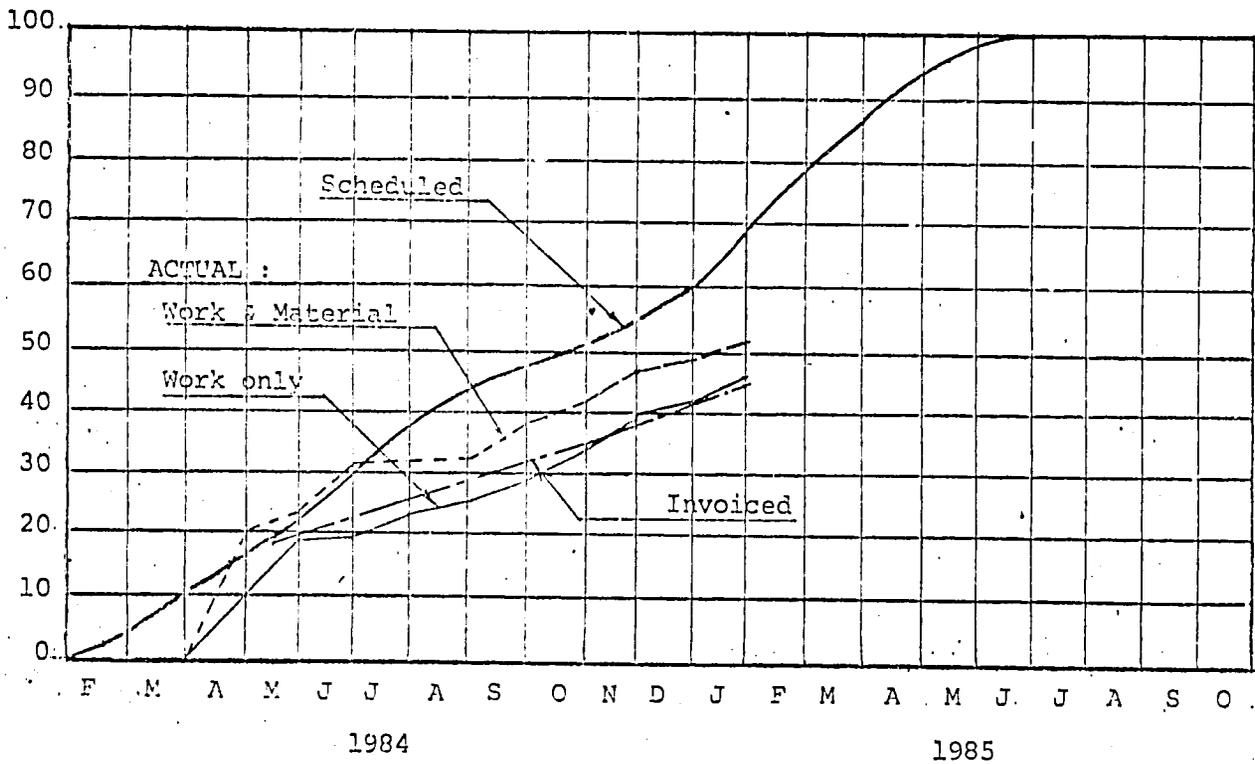
L/Com. Amendment No.1 :
Performance Guarantee : Agrani 001/84
Tk.15,54,900

CAR/PL Insurance : DAC/CAR/P-12/5/84

%Completion			
Scheduled		Actual	
This Period	To Date	This Period	To Date
9%	69%	6%	55%
Work	:	7%	49%
Material	:	1%	6%

* Pending Approval

CONSTRUCTION PROGRESS



	<u>This Period.</u>	<u>To Date</u>
A. Site Development	-	68%
B. Warehouse	6%	30%
C. Ancillary Buildings	13%	55%
D. Water Supply, Sanitary, Plumbing	4%	7%
E. Electrical	1%	4%

15

Activities

The main godown columns have been cast. The godown brickwork is in progress and 2 canopy slabs were poured. The roof slabs for ancillary buildings R2 & R3 were cast. The structural work for R1 was completed. The culvert under the entrance road was placed. The work completed during this month amounted to 7% over 10% should have been done to complete the project on time. Even though the contractor was notified to speed up the work no effort is made by him to do so.

Action Required

BADC: Clear last 10' of river access land from cultivation. The cultivator claims it is his land.

Work Scheduled Next Month

Wall and canopy work on the godown will proceed. The interior work at the ancillary building will start. Hopefully the contractor may start with the roof form work and continue with the filling of the site. The deep tube well drilling is scheduled to start.

Claims

None

Financial

<u>Invoice No.</u>	<u>I t e m</u>	<u>Amount Invoice(Tk)</u>	<u>Payment</u>	<u>USAID Voucher No.</u>
F1-01	Material Prepayment	27,15,000.00	27,15,500.00	1281
F1-02	Progress Payment	11,71,789.83	11,71,780.00	1853
F1-03	Progress Payment	13,50,596.94	13,50,564.27	242
F1-04	Progress Payment	11,03,195.15	11,03,195.15	

Variations (Change Orders, Overruns, Underruns)

A3	Excavation to waste	-	1,06,874.50
A4	Excavation	-	89,830.87
A6	Filling with imported material (select)	-	10,86,002.50
A21	Surcharge	-	46,970.00
	Total Underrun:	-	13,29,677.87

CONSOLIDATED MATERIALS TESTING REPORT

Project: Fertilizer Warehouses Phase III

For the month January 1985

Site : Dohazari

Material/Test	Spec. No.	No. of Tests	No. App- roved	No. Dis- Approved	Remarks/Requirement
A. Concrete Sand	3A.02-b.1	2	2	0	F.M. 2.3 to 3.1
B. Mortar Sand	4A.03	2	2	0	F.M. 1.80 to 2.80
C. Concrete Coarse Aggregate	3A.02-b.2	2	2	0	
D. Pea Gravel	4A.05	1	1	0	

No. of test at
3 days 7 days 28 days

E. Concrete:					
Compressive	3A.03				
Strength Test	3A.05	-	14	46	

Average 28 day Strength of Concrete:

1. Godown columns - 3684 PSI (Av. of 18 cylinders)
2. R2 1st floor lintel - 3448 PSI (Av. of 3 cylinders)
3. R1 roof slab - 3590 PSI (Av. of 3 cylinders)
4. R3 1st floor lintel - 3490 PSI (Av. of 3 cylinders)
5. Concrete core of Godown R.B. Wall - 3255 PSI (Av. of 16 cubes)

MONTH ENDING
31 January 1985

INVITATION NO. : F3-COX'S BAZAR

CONTRACTOR : Builders The Best Ltd.

Total Contract Price : Tk.99,64,470.85
 Change Order/Directives : 5,01,819.78*
 Revised Contract Price. : 1,04,66,290.63*
 L/Com No. : 388-002406
 Date of L/Com. : 31.01.84
 Amount of L/Com. : Tk.99,64,470.85
 (\$400,731.00)

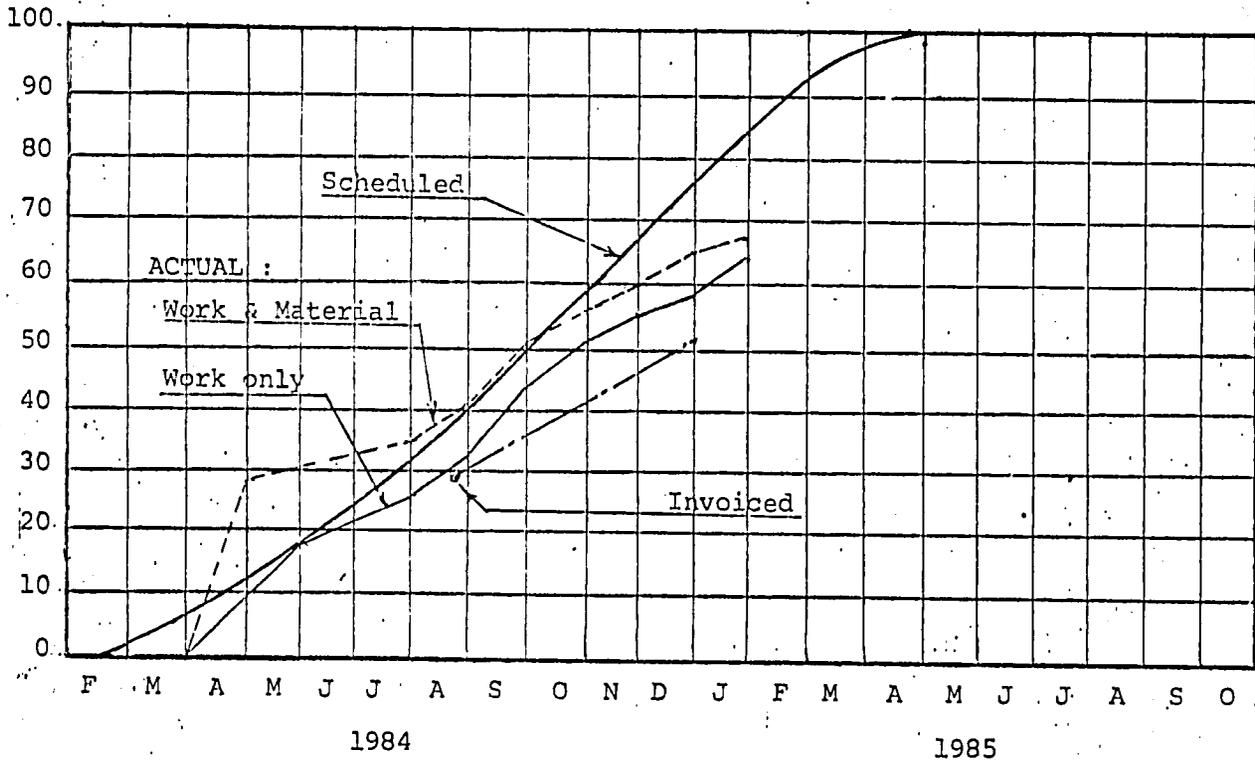
Date of Contract : 12.01.84
 Site Handed Over : 26.01.84
 Notice To Proceed : 23.02.84
 Scheduled Completion:30.04.85(433)
 Elapsed Time : 344 days . 79%

L/Com. Amendment No.1 :
 Performance Guarantee : Indosuez PB/TK/009
 Tk.10,00,000
 CAR/PL Insurance : DAC/CAR/P-13/5/84

%Completion			
Scheduled		Actual	
This Period	To Date	This Period	To Date
9%	85%	2%	67%
Work	:	6%	64%
Material	:	- 4%	3%

Pending Approval

CONSTRUCTION PROGRESS



	<u>This Period</u>	<u>To Date</u>
A. Site Development	-	69%
B. Warehouse	10%	62%
C. Ancillary Buildings	13%	84%
D. Water Supply, Sanitary, Plumbing	1%	33%
E. Electrical	1%	27%

Activities

The first 40% of the godown roof slab was placed. The finishing work of the ancillary buildings continues. The lime terrazing for 2 ancillary buildings were done. While part of the concrete roof was finally placed much other work is lagging far behind. The pavement should have been started a long time ago but the contractor failed to submit shop drawings or propose trial mixes for the 4,000 PSI pavement concrete. Even though the contractor was told a long time ago to install the deep tube well he makes no attempt to do so. The same is true for the permanent power connection. 3 month before the completion date 33% of the work remains to be done.

Action Required

BADC :.Hand over river access area

- . Approval of new river access design.

Work Schedule Next Month

Forming of last part of godown roof slab, Finishing work of ancillary building.
Pouring of pavement.

Claims:

None

Financial

<u>Invoice No.</u>	<u>I t e m</u>	<u>Amount Invoice(Tk)</u>	<u>Pavement</u>	<u>USAID Voucher No.</u>
F3-01	Progress Payment	29,70,417.00	29,40,711.36	1854
F3-02	Progress Payment	23,66,978.68	20,56,826.46	0513

Variations (Change Orders, Overrun, Underrun)

None this months

19

CONSOLIDATED MATERIALS TESTING REPORT

Project: Fertilizer Warehouses Phase III

For the month January 1985

Site : Cox's Bazar

Material/Test	Spec. No.	No. of Tests	No. Approved	No. Dis-Approved	Remarks/Requirement
A. Select Fill	2E.01-a	4	4	0	F.M. 1.5
B. Concrete Sand	3A.02-b.1	1	1	0	F.M. 2.3 to 3.1
C. Concrete Coarse Aggregate	3A.02-b.2	2	2	0	
D. Bricks: Frogmark:	4A.02	7	7	0	
E. Field Density Tests: Select Fill	2E.01	20	20	0	95% MDD

No of test at
3 days 7 days 28 days

F. Concrete: Compressive Strength Test	3A.03 3A.05	-	32	9	
----------------------------------------------	----------------	---	----	---	--

Average 28 day Strength of Concrete:

1. R1, R2, R3 building apron - 3396 PAI (Av. of 9 cylinders)

INVITATION NO. : H2-CHOWMUHANI

CONTRACTOR : Technocon Limited

Total Contract Price : Tk. 1,41,20,342.60
 Change Order/Directives : 3,86,779.25*
 Revised Contract Price. : 1,45,07,121.85*
 L/Com No. : 388-002407
 Date of L/Com. : 31.01.84
 Amount of L/Com. : Tk.1,41,20,342.60
 (\$567,863.00)

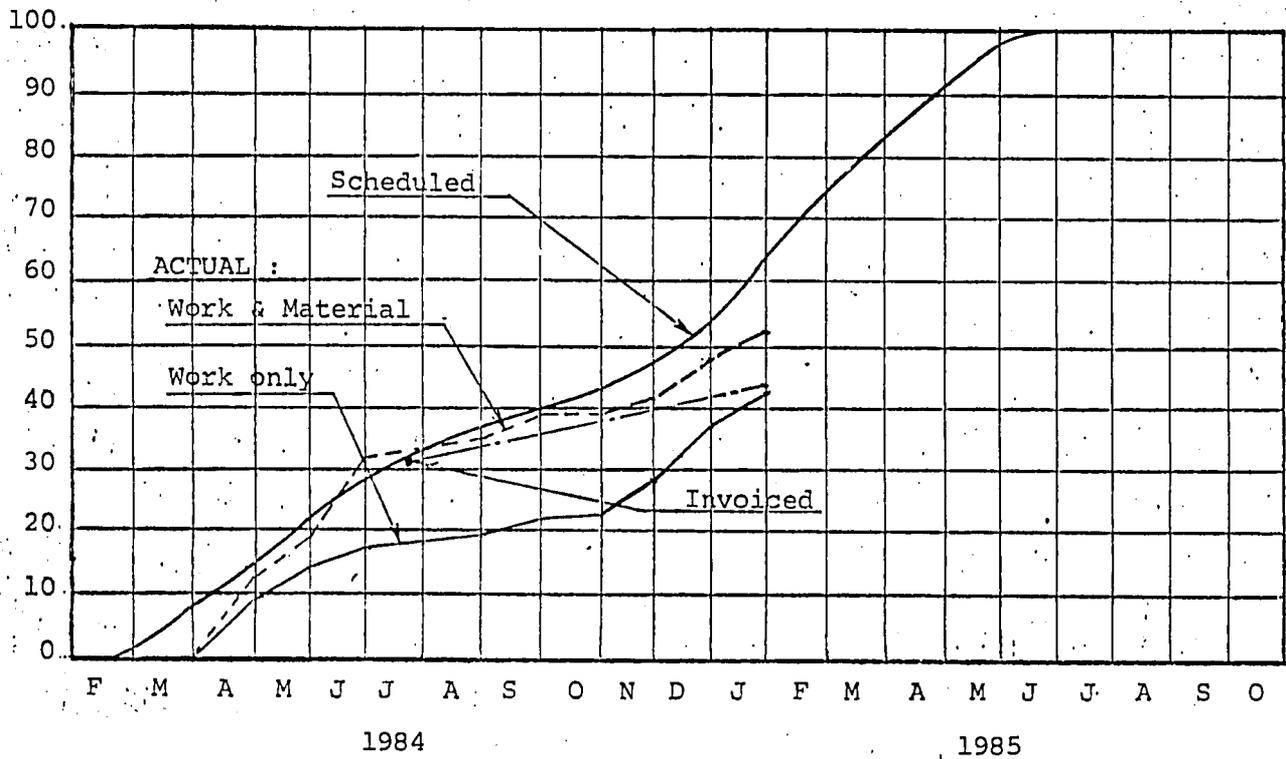
Date of Contract : 12.01.84
 Site Handed Over : 31.01.84
 Notice To Proceed : 23.02.84
 Scheduled Completion: 30.06.85(494)
 Elapsed Time :344 days .70 %

L/Com. Amendment No.1 :
 Performance Guarantee : Indosuez PB/TK/006
 Tk.14,12,035
 CAR/PL Insurance : DAC/CAR/P-07/84

%Completion			
Scheduled		Actual	
This Period	To Date	This Period	To Date
11%	65%	4%	52%
Work	:	5%	42%
Material	:	- 1%	10%

* Pending Approval

CONSTRUCTION PROGRESS



	<u>This Period.</u>	<u>To Date</u>
A. Site Development	1%	61%
B. Warehouse	3%	27%
C. Ancillary Buildings	22%	44%
D. Water Supply, Sanitary, Plumbing	-	10%
E. Electrical	1%	2%

21

Activities

Filling of east and north parking is in progress. The access road was filled higher and the guard house was started. The godown columns are being cast and the brick wall progressed. At the ancillary buildings the floor slab of R1 and the roof slabs at R2 and R3 were poured. The masonry work on all three ancillary buildings continued.

Even though the percentage of work completed this month was only 5% the contractor made a determined effort to work at all parts of the project simultaneously.

Action Required

None

Work Scheduled Next Month

Continue columns and brick work at the godown. Filling of north, east parking and access road. Brick work to roof at the R1 building. Roof work at R2 and R3 building. Start of deep tube well drilling.

Claims

None

Financial

<u>Invoice No.</u>	<u>Item</u>	<u>Amount Invoice (Tk)</u>	<u>Payment (Tk)</u>	<u>USAID Voucher No.</u>
H2-01	Progress Payment	48,07,208.61	48,07,208.61	1572
H2-02	-do-	14,30,222.28		

Variations

None

CONSOLIDATED MATERIALS TESTING REPORT

Project: Fertilizer Warehouses Phase III

For the month January 1985

Site : Chowmuhani

Material/Test	Spec. No.	No. of Tests	No. Approved	No. Dis-Approved	Remarks/Requirement
A. Select Fill	2E.01-a	9	7	2	F.M. 1.5
B. Ordinary fill	2E-01-b	15	3	12	Max. 20% passing Sieve No. 200
C. Mortar Sand	4A.03	2	2	0	F.M. 1.8 to 2.8
D. Concrete Coarse Aggregate	3A.02-b.2	2	1	1	
E. Pea Gravel	4A.05	4	3	1	
F. Field Density Tests: Select Fill	2E.01	9	7	2	90% & 95% MDD

No. of test at
3 days 7 days 28 days

I. Concrete:					
Compressive	3A.03				
Strength Test	3A.05	-	34	60	

Average 28 day Strength of Concrete:

1. Godown footings - 3973 PSI (Av. of 26 cylinders)
2. Godown Grade beams - 3825 PSI (Av. of 6 cylinders)
3. Godown columns - 3443 PSI (Av. of 11 cylinders)
4. R3 Lintel - 3797 PSI (Av. of 2 cylinders)
5. R1 Foundation C.C. - 3290 PSI (Av. of 3 cylinders)
6. R2 Lintel - 3968 PSI (Av. of 2 cylinders)

INVITATION NO. : H3-AKSHMIPUR

CONTRACTOR : Technoco Limited

Total Contract Price : Tk.55,91,275.35

Change Order/Directive : 52,885.00

Revised Contract Price : 56,44,160.35

L/Com No. : 388-002408

Date of L/Com. : 31.01.84

Amount of L/Com. : Tk.55,91,275.35
(\$224,858.00)

L/Com. Amendment No.1 :

Performance Guarantee : Indosuez PB/TK/007

Tk.5,59,130

CAR/PL Insurance : DAC/CAR/P-06/4/84

Date of Contract : 12.01.84

Site Handed Over : 31.01.84

Notice To Proceed : 23.02.84

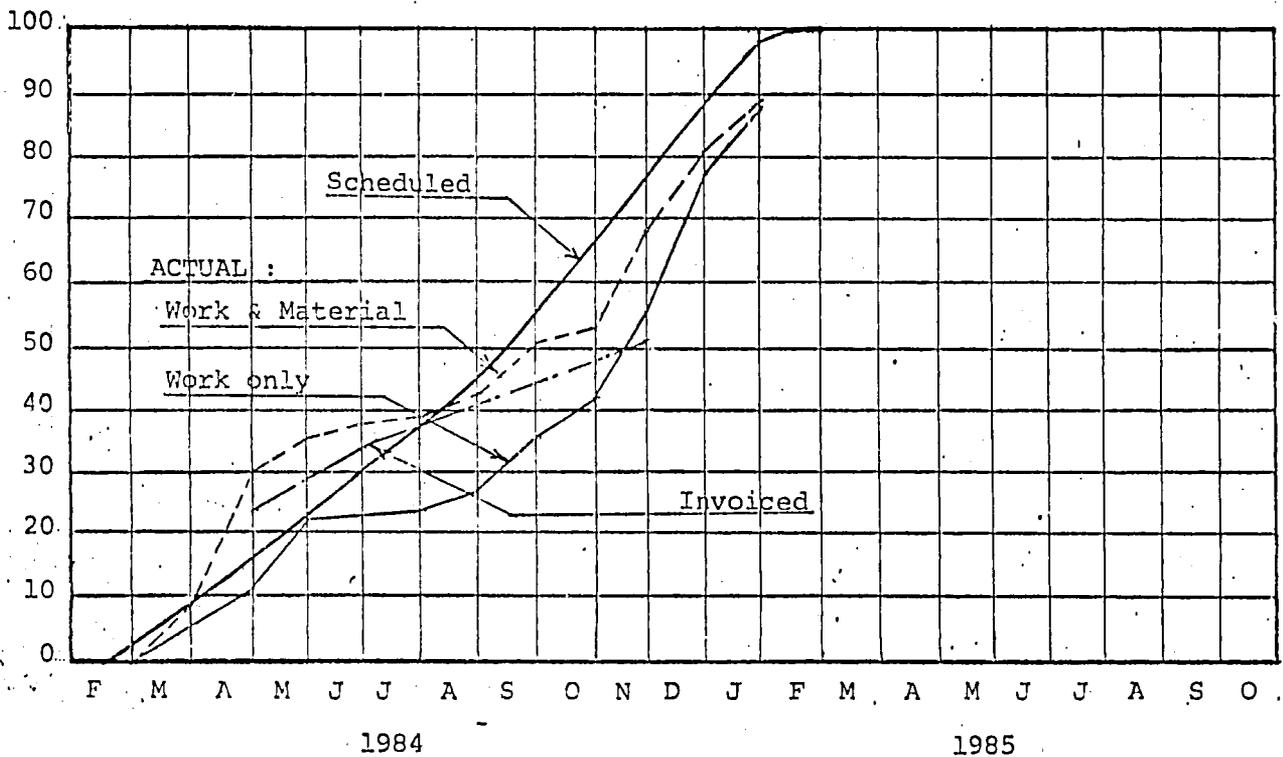
Scheduled Completion: 28.02.85 (371)

Elapsed Time : 344 days . 93%

%Completion			
Scheduled		Actual	
This Period	To Date	This Period	To Date
10%	98%	8%	89%
Work		: 10%	87%
Material		: - 2%	2%

* Pending Approval

CONSTRUCTION PROGRESS



	<u>This Period.</u>	<u>To Date</u>
A. Site Development	18%	92%
B. Warehouse	1%	92%
C. Ancillary Buildings	2%	100%
D. Water Supply, Sanitary, Plumbing	10%	35%
E. Electrical	-	32%

Activities

The godown roof form was removed. The roof ventilator was cast. A large part of the concrete pavement was placed. The type B boundary wall construction continued. The planting of grass was started. All work in the Darwan's quarters was completed. The drilling of the deep tube well was started. It caved in at 420 ft depth. The drilling will continue with bentonite. The project is close to completion.

Action Required

None

Work Scheduled Next Month

The asphalt roofing of the godown will be placed. The pavement shall be finished. The deep tube well should be finished. The boundary wall will be continued. General clean up work will be done.

Claims

None

Financial

<u>Invoice No.</u>	<u>I t e m</u>	<u>Amount Invoice(Tk)</u>	<u>Payment</u>	<u>USAID Voucher No.</u>
H3-01	Material Prepayment	12,72,681.70	12,72,681.70	1248
H3-02	Progress to 16.06	7,16,085.93	7,16,085.93	1597
H3-03	Progress to 26.11	9,11,814.00	9,11,814.00	416
H3-04	Progress to 17.01	7,00,681.64		

Variations (Change Orders, Overruns, Underruns)

H3-01	Kitchen Chimney		+ Tk.	5,000.00
H3-02	Boundary Wall pending USAID's concurrence		+ Tk.	80,700.00
H3-03	Change Order - Underrun, Various items		- Tk.	32,815.00
				<hr/>
				+ Tk. 52,885.00

CONSOLIDATED MATERIALS TESTING REPORT

Project: Fertilizer Warehouses Phase III

For the month January 1985

Site : Lakshmipur

Material/Test	Spec. No.	No. of Tests	No. App- roved	No. Dis- Approved	Remarks/Requirement
A. Select Fill	2E.01-a	1	0	1	F.M. 1.5
B. Concrete Sand	3A.02-b.1	3	1	2	F.M. 2.3 to 3.1
C. Concrete Coarse Aggregate	3A.02-b.2	1	1	0	
D. Field Density Tests: Select Fill	2E.01	13	13	0	95% MDD

No. of test at

3 days 7 days 21 days 28 days

E. Concrete: Compressive Strength Test	3A.03 3A.05	-	42	23	8
----------------------------------------------	----------------	---	----	----	---

Average 28 day Strength of Concrete:

1. Concrete Walkway - 3742 PSI (Av. of 3 cylinders)
2. Road pavement - 5219 PSI (Av. of 3 cylinders)
3. Roof Slab - 4088 PSI (Av. of 5 cylinders)
4. Boundary wall column - 3570 PSI (Av. of 3 cylinders)

INVITATION NO. : I4-CHANDPUR

CONTRACTOR : Fazle Azim Engineers Ltd.

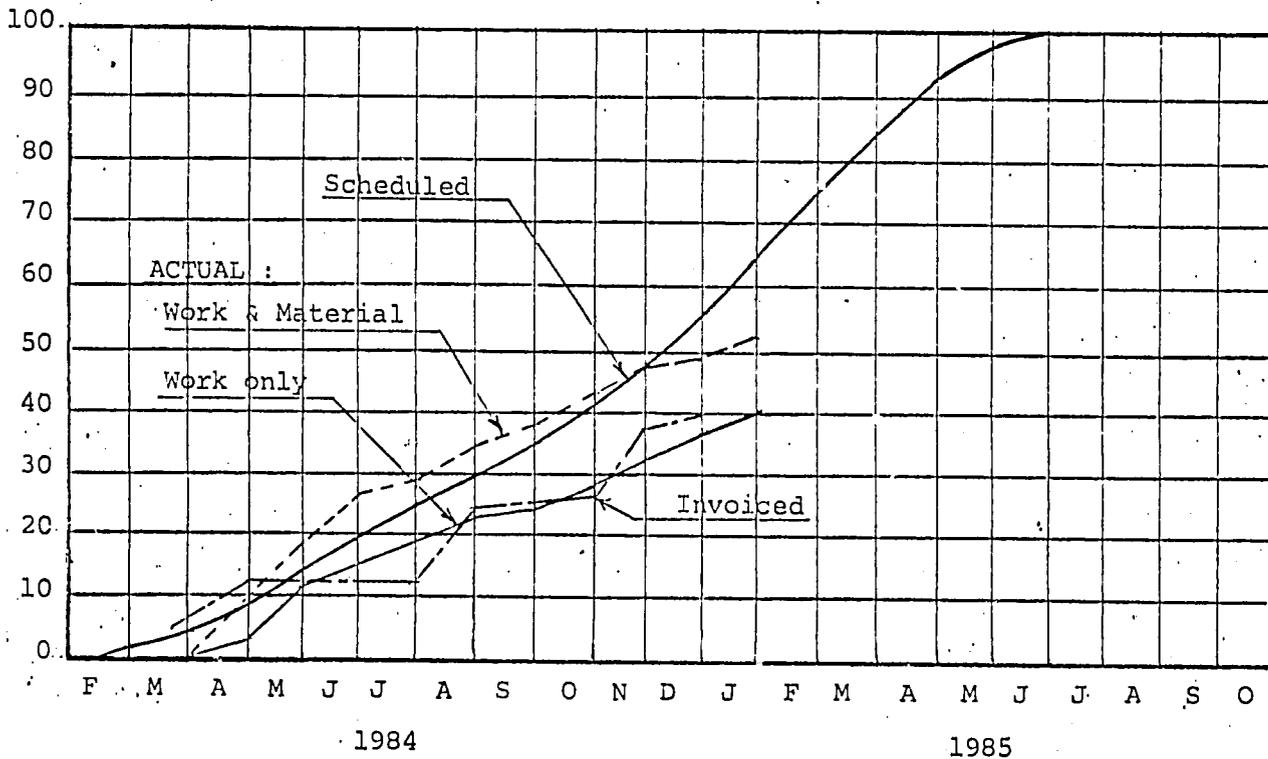
Total Contract Price	: Tk.1,70,67,822.35	Date of Contract	: 16.01.84
Change Order/Directives	: 21,78,533.50*	Site Handed Over	: 31.01.84
Revised Contract Price.	: 1,92,46,355.85*	Notice To Proceed	: 23.02.84
L/Com No.	: 388-002409	Scheduled Completion:	30.06.85 (494)
Date of L/Com.	: 31.01.84	Elapsed Time	: 344days . 70 %
Amount of L/Com.	: (\$686,398.00)		

L/Com. Amendment No.1	:	
Performance Guarantee	:	Janata MCK/002/84 Tk.17,10,000
CAR/PL Insurance	:	DAC/CAR/P-10/84
Fidelity Bond	:	MCK:004:84,06.03.84 Tk.8,53,400

%Completion			
Scheduled		Actual	
This Period	To Date	This Period	To Date
9%	65%	3%	52%
Work	:	3%	40%
Material	:	-	12%

* Pending Approval

CONSTRUCTION PROGRESS



	<u>This Period.</u>	<u>To Date</u>
A. Site Development	2%	56%
B. Warehouse	3%	38%
C. Ancillary Buildings	8%	27%
D. Water Supply, Sanitary, Plumbing	2%	5%
E. Electrical	1%	2%

27

Activities

Hardly any work was done at the godown. Only some beam forms and reinforcement was installed.

On the ancillary buildings the roof slab was cast at R3, the brick walls were brought up to the ground floor slab level at R1 and R2. The work on the boundary walls continued. Except for stairs the riverside retaining wall was completed. The filling along the west property line is in slow progress. No material amount of work was done on the bridge.

This project continues to fall further and further behind schedule with 3% of work done this month as against 9% of the schedule !

The approval of a change order for the retaining wall along the canal at the Sen Gupta Road is urgently required from BADC and USAID otherwise this wall will have to be built next year ! It can only be built between December and April due to the high water level in the canal during the other months of the year !

Action Required (URGENT)

BADC and USAID : Approve cost estimate and retaining wall at Sen Gupta Road.
The retaining wall can only be built during the dry season.
: Remove 2 shops in bridge area.

Work Schedule Next Month

For work for the eastern half of the godown. Brick work of ancillary buildings R1, R2 and R3. Boundary wall and retaining wall at river to continue, pile casting of the bridge to start.

Claims

None

Financial

<u>Invoice No.</u>	<u>Item</u>	<u>Amount Invoice (Tk)</u>	<u>Payment</u>	<u>USAID Voucher No.</u>
-	Mobilization Advance	8,53,391.12	8,53,391.12	0097
I4-01	Material Prepayment	14,06,400.00	14,06,400.00	1249
I4-02	Material Prepayment	6,26,500.00	(-6,26,500.00) 1/	1753
I4-03	Progress Payment	24,68,664.86	24,68,664.86	1855
I4-04	Progress Payment	18,19,286.50	18,19,286.50	0209
I4-05	Progress Payment	7,30,793.84	7,30,793.84	

1/ Amount recovered against Mobilization Advance. Interest to be determined by USAID, payable by Contractor on outstanding advance and delayed repayment.

Variations (Change Orders, Overruns, Underruns)

Total Contract Price	Tk.	1,70,67,822.35
Change Order I4-01	(+) Tk.	11,440.00
Change Order I4-02	(+) Tk.	2,45,520.00
Change Order I4-03 (Bridge)	(+) Tk.	9,07,240.00
Change Order (Retaining Wall) Pending		5,39,043.50
Change Order (Pending)		4,75,290.00
		<hr/>
Revised Estimated Contract Price	Tk.	1,92,46,355.85

CONSOLIDATED MATERIALS TESTING REPORT

Project : Fertilizer Warehouses Phase III

For the month January 1985

Site : Chandpur

Material/Test	Spec. No.	No. of Tests	No. App- roved	No. Dis- Approved	Remarks/Requirement
A. Select Fill	2E.01-a	2	2	0	F.M. 1.5
B. Concrete Sand	3A.02-b.1	5	4	1	F.M. 2.3 to 3.1
C. Mortar Sand	4A.03	2	2	0	F.M. 1.8 to 2.8
D. Concrete Coarse Aggregate	3A.02-b.2	1	1	0	
E. Bricks: CBM		10	0	10	
Frogmark: SBF	4A.02	5	1	4	
ARS		5	5	0	
F. Field Density Tests:	2E.01-a	10	6	4	95% MDD
	2E-01-b	31	27	4	85% MDD

No. of test at

3 days 7 days 28 days

G. Concrete:					
Compressive	3A.03	-	28	69	
Strength Test	3A.05				

Average 28 day Strength of Concrete:

1. Retaining wall base - 3589 PSI (Av. of 27 cylinders)
2. " " Stem - 3567 PSI (Av. of 16 cylinders)
3. B/wall foundation - 3748 PSI (Av. of 2 cylinders)
4. R1 Building Foundation C.C. - 3777 PSI (Av. of 3 cylinders)
5. R3 Lintel & porch - 3636 PSI (AV. of 6 cylinders)
6. R2 Porch - 3336 PSI (Av. of 3 cylinders)

INVITATION NO. : 05-PARBATIPUR

CONTRACTOR : The Elite Engineers Ltd.

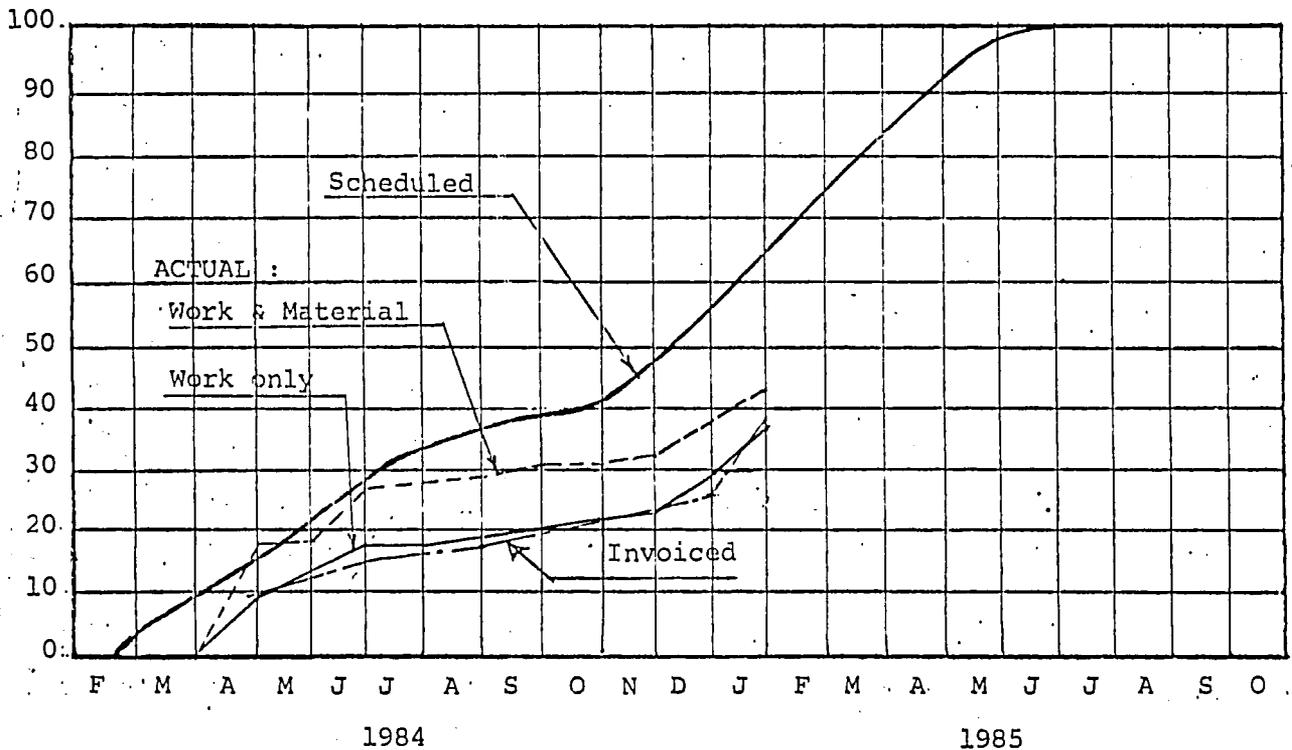
Total Contract Price : Tk.1,70,02,196.40
 Change Order/Directives : - 500.00*
 Revised Contract Price : Tk.1,70,01,696.40*
 L/Com No. : 388-002411
 Date of L/Com. : 31.01.84
 Amount of L/Com. : Tk.1,70,02,196.40
 (\$683,759.00)
 L/Com. Amendment No.1 :
 Performance Guarantee : LG 84/42 BCCI
 Tk.17,00,220
 CAR/PL Insurance : DAC/CAR/P-11/5/84

Date of Contract : 12.01.84
 Site Handed Over : 26.01.84
 Notice To Proceed : 23.02.84
 Scheduled Completion:30.06.85(494)
 Elapsed Time : 344 days.. 70 %

		%Completion	
		Scheduled	Actual
	This Period	To Date	This Period
	9%	65%	5%
Work			8%
Material			- 3%
			43%
			37%
			6%

Pending Approval

CONSTRUCTION PROGRESS



	This Period.	To Date
A. Site Development	3%	45%
B. Warehouse	16%	29%
C. Ancillary Buildings	6%	55%
D. Water Supply, Sanitary, Plumbing	5%	11%
E. Electrical	-	2%

Activities

All godown column footings have been cast, a good percentage of grade beams were placed, 25% of all column concrete was poured, the brick walls were started. The ancillary buildings were filled up to the plinth level. The first floor slab of R3 was placed. Window and doors are being manufactured. Work on the boundary wall and placement of select fill in railroad embankments continues.

Material shortages and lack of control of the contractor over skilled labor still hamper the work. Never the less the 8% of work completed shows considerable improvement which in part is due to the efforts of the Construction Adviser.

Action Required

BADC : Establish the boundary to the north or the boundary wall can not be built.

Work Scheduled for Next Month

Continue godown columns, grade beams and masonry work. The structural work at R3 and finishing of R1 and R2 to continue.

Filling of railroad embankments, boundary wall construction.

Claim

None

Financial

<u>Invoice No.</u>	<u>I t e m</u>	<u>Amount Invoice(Tk)</u>	<u>Payments (Tk)</u>	<u>USAID Voucher No.</u>
05-01	Material Prepayment	14,96,000.00	14,96,000.00	1225
05-02	Material Prepayment	12,16,750.00	12,16,750.00	1571
05-03	Progress Payment	16,45,747.00	16,45,071.71	1875
05-04	" "	1,78,402.39	1,78,402.39	417
05-05	" "	12,94,979.50	12,94,979.50	0518
05-06	" "	6,94,771.00		

Variations (Change Orders, Overruns, Underruns)

Original Total Contract Price	Tk. 1,70,02,196.40
Change Order 05-01 (Proposed)	(-) 500.00
New total estimated contract price	Tk. 1,70,01,696.40

CONSOLIDATED MATERIALS TESTING REPORT

Project: Fertilizer Warehouses Phase III

For the month January 1985

Site : Parbatipur

Material/Test	Spec. No.	No. of Tests	No. Approved	No. Dis-Approved	Remarks/Requirement
A. Select Fill	2E.01-a	2	1	1	F.M. 1.5
B. Ordinary Fill	2E-01-b	1	1	0	
C. Concrete Coarse Aggregate	3A.02-b.2	2	1	1	
D. Bricks: Frogmark:	4A.02	15	15	0	
E. Field Density Tests: Select Fill	2E.01	103	95	8	90% & 95% MDD

No. of test at
3 days 7 days 28 days

F. Concrete: Compressive Strength Test	3A.03 3A.05	-	48	54	
----------------------------------------------	----------------	---	----	----	--

Average 28 day Strength of Concrete:

1. Godown column footing - 4125 PSI (Av. of 30 cylinders)
2. Godown Grade beam - 4137 PSI (Av. of 9 cylinders)
3. Godown columns - 4179 PSI (Av. of 6 cylinders)

31 January 1985

INVITATION NO.8 : L4-DOMAR

CONTRACTOR : M.S. Khan & Heirs Ltd.

Total Contract Price	: Tk. 74,99,255.00	Date of Contract	: 12.01.84
Change Orders	: Tk.	Site Handed Over	: 25.01.84
Revised Contract Price	: Tk. 74,99,255.00	Notice To Proceed	: 02.02.84
Payments To Date	: Tk.		
Retention To Date	: Tk.		
L/Com. No.	: 388-002410		
Date of L/Com.	: 31.01.84		
Issue Date of L/Com.	: 02.02.84		
Amount of L/Com.	: Tk.74,99,255.00		
	(\$301,590.00)		
L/Com. Amendment No.1	: 14.02.84		

CONTRACT TERMINATED by CE Memo No.2995, 04.03.84 under Clause 80 of Conditions of Contract.

The Contractor submitted his invoice for final compensation for termination and payment has been made in the amount of Tk.5,83,083.62

II. CONSULTANT'S ACTIVITIES

A. FINANCIAL - PROGRESS SCHEDULE

FINANCIAL

Total Procurement Budget	- \$ 2,014,567
Special Project Activity	- \$ 245,498
Total Contract Budget	- \$ 2,260,065
Estimated Expenditures To-Date	- \$ 1,578,305
% Expenditure to Total Contract Budget	- \$ 69.8%

PROGRESS

Elapsed Contract Time (31.01.85)	- 78 1/2 days
Remaining Contract Time (30.06.85)	- 150 days
% Elapsed Time	- 83.9%

B. ADMINISTRATION

1. The Consultant's Agreement

- . Contract Agreement Signed - 09 December 1982
- . Effective Date - 09 December 1982
- . AID Letter of Commitment No. 388-0024-3-30381 - 15 December 1982
- . Duration - 30 June 1985*
(30.74 mos.)

- . Months Completed - 25.74

* Amendment No. 1 dated 28.03.84

2. Expatriate Staff

		<u>Man-Months</u>	
		<u>Allocated</u>	<u>Utilized</u>
George A. Pecht	- Project Manager	27	22.64
Klaus Thieme	- Chief Construction Engineer	25	19.46
-	- Foundation Engineer	11	11.17
-	- Structural Engineer	6	4.91
Y.O. Kim	- Project Engineer	16	10.65

3. Contract Administration

- . USAID extending Project Assistance Completion Date (PACD) to July 28, 1986 (AID Letter No. 671, 03.05.84)
- . Pending BADC's action in executing amendment No.2 to Consultant's agreement. USAID has concurred with Consultant's proposal.

4. Meetings

- . BADC/USAID/A&W monthly review meetings
- . Consultant's periodic staff review meetings
- . Meetings with construction contractors

II. Consultant's Activities

5. Supporting Bangladeshi Personnel

5.1 WEL and SSL Personnel (Sub-Contractor)

<u>Designation</u>	<u>Man-Months</u>	
	<u>Allocated</u>	<u>Utilized</u>
Deputy Project Manager	27	24.6806
S&M Engineer	24	27.2723
Structural Engineer	9	9.0388
Architect	4	3.8389
Electrical Engineer	6	8.2599
Railway Engineer	24	22.9089
Office Engineer	26	24.8656
Land Procurement Officer	24	22.1366
Surveyor	25	20.3879
Instrument Man	25	18.5664
Rodman	25	12.8222
Chainman	25	23.0939
Draftsman	69	63.3125
Laboratory Technician	56	80.1432
Laboratory Assistant	56	54.5880
Estimator	48	29.8943
Senior Field Engineer	60	61.1186
Field Engineer	80	53.6931
Inspectors	128	84.7835
Drivers	94	51.9765
Messenger	34	-
Peon	34	-
Guard	68	-
Clerk	34	-
Typist	34	-

5.2 Administrative Personnel

Administrative Manager	27	25.2324
Senior Accountant	27	25.5844
Assistant Accountant	44	23.6410
Secretary	27	25.3164
Printer	27	23.9059
Typist	72	59.5604
Clerk	45	35.8765
Drivers	103	91.7091
Messenger	45	22.8160
Peon	72	68.5110
Guard	90	115.7518
Radio Operator	48	-
Office Superintendent/Asst. Accountant	34	12.3478

II. Consultant's Activities

Project Expenditures
(Estimated Project Cost Incurred)

<u>I t e m</u>	<u>Agreement Budget</u>	<u>Adjusted Budget</u>	<u>This Month</u>	<u>Cumulative</u>
Services in Bangladesh	\$ 746,188	\$ 790,172	\$ 29,253	\$ 651,216
Services in Home Office	176,178	176,178	1,251	142,731
International Travel, etc.	85,740	85,740	-	32,027
Housing Allowance Per Diem etc.	91,075	102,775	512	72,456
Logistic Cost	223,400	223,400	2,840	110,275
Supporting Staff	382,404	387,842	12,803	247,862
Misc. Direct Costs	43,000	43,000	169	16,509
Fixed Fee	205,460	205,460	7,610	197,860
	<u>\$ 1,953,445</u>	<u>\$2,014,567</u>	<u>\$ 54,438</u>	<u>\$1,470,936</u>
Percent of Estimated Budget			2.70%	73.01%
Percent Contract Time (To 30.06.85)				83.73%
Special Project Activity	<u>\$ 306,620</u>	<u>\$ 245,498</u>	<u>\$ 397</u>	<u>\$ 107,369</u>
	<u>\$ 2,260,065</u>	<u>\$2,260,065</u>	<u>\$ 54,835</u>	<u>\$1,578,305</u>

Billing and Payment

<u>Invoice</u>	<u>Period Ending</u>	<u>Billing</u>	<u>Payment</u>
01-21	30 Nov'84	\$ 1,420,265.37	\$ 1,406,574.62
22	31 Dec'84	\$ 51,221.95	Under Process

. Monthly Progress Report No. 25 for December 1984 submitted by letter/2720, 05 January 1985.

C. TECHNICAL

Summary of Consultant's Activities During This Month

The Engineer continued monitoring the construction work of the Contractors at each of the sites. Concrete cylinders were prepared from each concrete pour and tested at 7-day and 28-day to determine if strength conformed to specification requirements.

Testing of brick samples continues to determine if they meet specification requirements as to strength and dimensions.

Testing of other materials (select fill, mortar sand, cement) continues in the field and Dhaka laboratory to determine acceptance level for the project.

The Project Manager and Deputy Project Manager, supplement the site monitoring by the Chief Construction and Project Engineer by weekly site inspection trips.

The Engineer posted Mr. Y.O. Kim, Project Engineer, as Construction Advisor in Parbatipur from 17.12.84.

In the office the Engineer is engaged in checking working (Shop) drawings submitted by the contractors, preparing supplemental and clarifying details, preparing Change Orders, and construction administrative functions. Work at each site is monitored by daily thru radio communication network and timely decisions made on site problems or questions raised.

Comments by BADC and USAID personnel on their site inspection visits receive immediate attention of the Project Manager.

- Analyzing contractor's claims and informing contractors of Engineer's decision.
- Preparing Change Orders as required.
- Determine variations (overruns and underruns) due to changed field conditions.
- Continuing testing at central laboratory and in field of materials to be incorporated in permanent work.
- Issued reminders to the contractors to comply with the Conditions of Contract and Technical Specifications by submitting required documents.
- Issued field message giving directions to contractors as required.
- Follow up on compliance with field message.
- Prepare instruction for contractors' and Engineer's personnel guidance in control of work and materials.

II. Consultant's Activities

- Prepare and submit Monthly Progress Report.
- Monitoring resolution of site possession and removal of obstructions.
- Kept Manager(Storage) BADC, informed of obstructions and other problems at site.
- Held scheduled meetings with each of Contractors' and Consultant's key personnel.
- Continued site inspection, construction surveillance, and filing reports for action by key staff members.
- Continued monitoring availability of construction materials.
- Key staff members continuing inspecting sites and instructing Engineer's and Contractors' personnel on procedures.
- Spot checking materials and work approved by field staff.
- Checking shop drawings submitted.
- Monitoring contractors' progress against their construction schedules.
- Reviewing contractors' revised work schedule.
- Processing contractors' invoices for payments.

- Items requiring follow-up:
 - . Monitoring field testing procedures and test results.
 - . Monitoring activity and performance of field staff
 - . Monitoring compliance to field message issued by field staff
 - . Resolving of land problems by BADC
 - . Obtaining clearance from BR by BADC
 - . BADC action in obtaining incoming power line to sites