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PD-AAR-332



**GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH
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**

3670

PROGRESS REPORT NO. 31

June 1985



AMMANN & WHITNEY
CONSULTING ENGINEERS
NEW YORK

in association with



WORLDWIDE ENGINEERS LTD.
ARCHITECT-ENGINEERS
DHAKA



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CONSULTING ENGINEERS

AMMANN & WHITNEY
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P. O. BOX 348
DHAKA, BANGLADESH

WAREHOUSES PHASE III

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

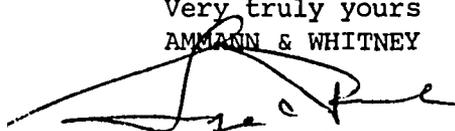
724-4.1.1/3366
08 July 1985

Subject : Monthly Progress Report No.31
- June 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/Dhaka w/encl.(6)
File 724-1.4.2 w/encl.

AMMANN & WHITNEY
Consulting Engineers

FERTILIZER WAREHOUSES - PHASE III

Monthly Progress Report No. 31
Month of June 1985

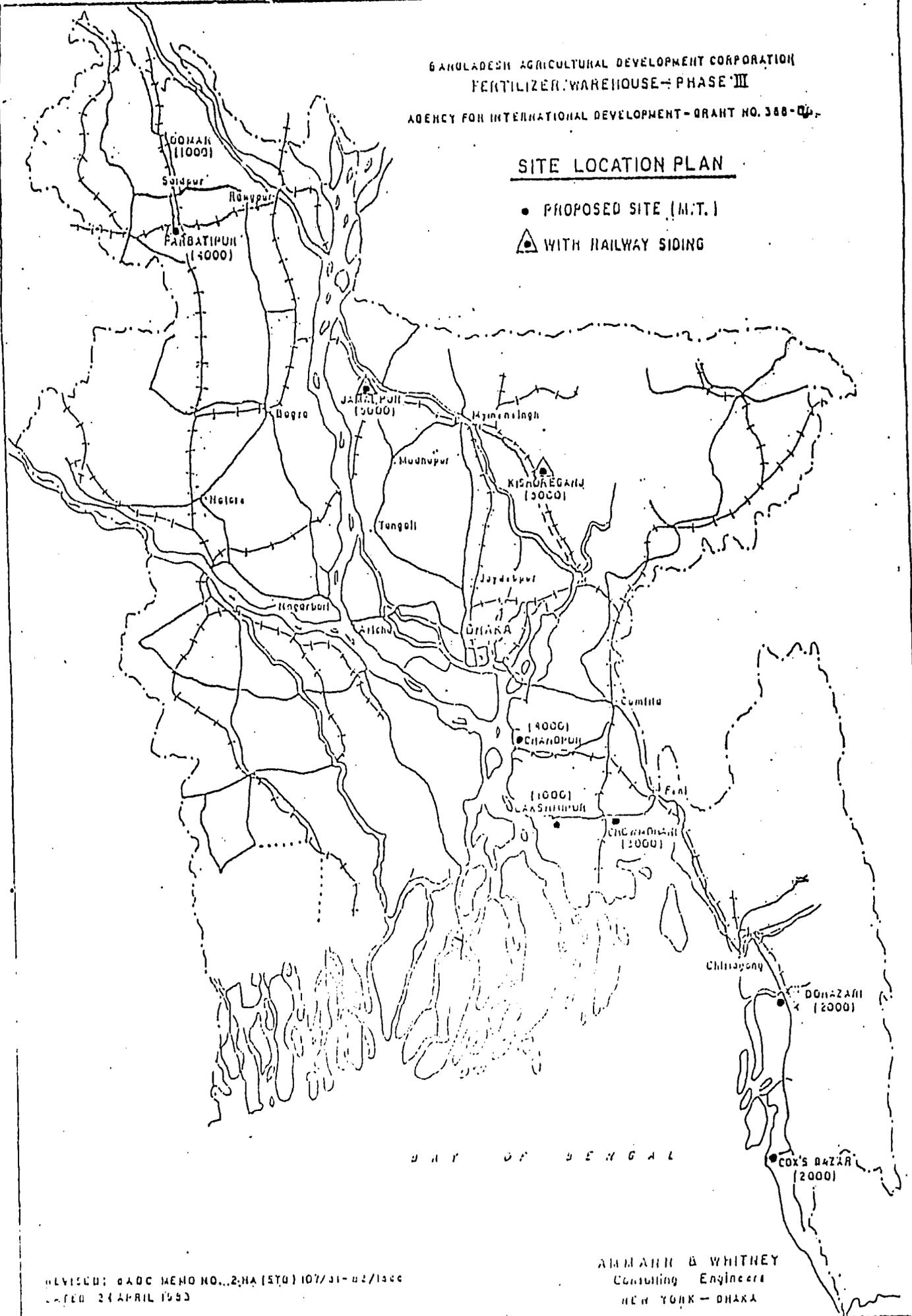
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BANGLADESH AGRICULTURAL DEVELOPMENT CORPORATION
 FERTILIZER WAREHOUSE - PHASE III
 AGENCY FOR INTERNATIONAL DEVELOPMENT - GRANT NO. 388-04

SITE LOCATION PLAN

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



REVISED: DAOC MEMO NO. 2/HA (STG) 107/31-02/1960
 DATED 24 APRIL 1953

ALMANN & WHITNEY
 Consulting Engineers
 NEW YORK - DHAKA

13

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 PARBATIPUR	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)

H

I. CONTRACTOR'S ACTIVITIES

CONSTRUCTION PHASE

1. Summary of Contractors' Activities

For the project as a whole, 10% of the total work was completed in June with the overall percentage increasing from 76% to 86%. This month's work accomplished at the different sites amounted to : Jamalpur 18%, Chandpur 16%, Chowmuhani 10%, Kishoreganj 10%, Parbatipur 7%, and Dohazari 4%.

Rated by work still to be completed the picture is as follows:

Kishoreganj	- 6%
Jamalpur	- 7%
Chowmuhani	- 15%
Dohazari	- 17%
Chandpur	- 23%
Parbatipur	- 33%

With a "last-minute" effort by the contractors it appears that Kishoreganj, Jamalpur and Chowmuhani can be substantially completed during July. Neither will have permanent power and Chowmuhani will not have a deep tubewell for some time. If the contractor increases his efforts at Dohazari he could accomplish substantial completion by the end of August but he is presently working with a work-force of 75 people only while at Kishoreganj, Jamalpur, Chowmuhani, and Chandpur between 150-200 workers are busy till late at night.

The following two paragraphs of last month progress report are still valid:

" The likelihood of Parbatipur with its stop and go work schedule to be completed by December is probalistic. Assessing of liquidated damages will have an effect on complete date. The work could be completed sooner than December but this would require a planned program, effective management at site, and cash inflow to the project.

It is a question if the contractors at Chandpur and Parbatipur are able to endure the financial strain under which they must be operating to complete the work within reasonable schedule."

At Parbatipur 50% of the godown roof still has to be placed. All other roofs are cast.

Cox's Bazar and Lakshmipur are substantially completed. The permanent power connection remains to be installed; please see pages : Permanent Power Connection. Cox's Bazar is ready to be handed over to BADC as soon as Manager (Storage) designates a representative to take over.

Kishoreganj

A large amount of concrete pavement was cast and top soil was placed and sodded. The last part of the godown roof (1½ bays) was poured. The finishing of the roof concrete is in process, as is the bituminous roofing. At the ancillary buildings the contractor is trying to finish many items at the same time. It appears that in his desire to complete as early as possible the contractor neglected the quality of his work. He is now rectifying items done without proper care.

Kishoreganj - cont'd

The Contractor accomplished 10% of the work and completed about 95% of the project. If he continues with diligence, substantial completion can be anticipated by the end of July.

Work to be done: Finishing of godown concrete roof; cleaning of walls; finish bituminous roofing, doors, windows, louvers, whitewash, snowcem and other painting; sanitary and electrical installation; placing of top soil and sodding; distribute excess fill properly; finish pump house; corrective/repair of various works; and, remove contractor's facilities.

Jamalpur

Brick and concrete pavement were finished; loading platforms were cast; and boundary wall and guard house were completed. The roof slab for the 1500 T godown was cast. The finishing of the godown roof slab is in process at both godowns. The installation of the bituminous roofing was slowed down by rain. The godown doors are being installed. At the ancillary buildings the plaster, patent stone flooring, and soak wells were finished. The painting is in process. The deep tubewell was complete. The structural work on the pump house is done.

The progress of work was 18% in June with a total completion of 93%. This project could be substantially completed in July.

Work to be done: Placing top soil and sodding; and, finish entrance gate, walkway, tally office, public toilet, godown slab cement wash, window, painting, white wash, sanitary, and electrical works. Remove contractor's facilities.

Dohazari

Filling and brick paving continues at a very slow pace. Small amount of concrete for curb, apron, and roof vent were cast at the godown. 50% of the brick flooring was laid. The finishing of the ancillary buildings continued slowly.

Only 4% of the work was accomplished this month bringing the total to 83%. Completion appears 2 to 3 month off. With urgent need to complete curbs, platforms, aprons, and pump house the contractor employed only 2 carpenters. For finishing in ancillary buildings and of godown roof concrete, plus brick pavement in the godown and for large brick parking areas the contractor employed only 8 masons. The site manager took two weeks Eid holidays.

The main items still to be finished are:

- Pump house (not yet started)
- Gate house (70% to be done)
- Public toilet (50% to be done)
- Brick parking (22% to be done)
- Apron, curb and walkways (70% to be done)
- Drains around parking (100 to be done)
- Godown roof forms to be removed (about 30%)
- Godown brick floor (50% done)
- Fixed windows (25% done)
- Godown platforms (not done)

Dohazari - cont'd

Ancillary buildings: Patent flooring (36% done)
Cement plaster (85% done)
Louvers (80% done)
Lime terracing (65% done)
Painting snowcem, white wash (not started)
Plumbing (50% complete)
Electrical (20% complete)

Cox's Bazar

The project was substantially completed on 30 April 1985 and accepted by the Engineer on 5.5.85. A letter to that effect was signed by the Engineer and the Contractor which includes a punch list with items to be corrected or completed. Of these the pump house was completed; other works still remain to be done. Work on the river access had to be stopped due to high water of the river during the rainy season. BADC obtained from PDB a list of materials and an estimate for PDB's cost of the permanent power connection. The Contractor will have to purchase these materials including a transformer and turn them over to PDB for installation. The project can officially be turned over to BADC, Storage.

Chowmuhani

The Contractor placed brick pavement, fill and top soil. The brick floor at the godown was completed. Finishing of the roof concrete is going on. Electrical work is in progress. At the ancillary buildings patent flooring, door and window installation and painting is going on.

The deep tubewell drilling was abandoned because the well caved in at 915 ft depth. The Contractor prepared a proposal for a different type of well. The Engineer is studying his proposal.

The Contractor is making a determined attempt to finish the project. He did 10% of the work during this month. 15% remain to be done. The contractor may substantially complete the godown by 10.7.85 and the ancillary buildings by the end of July.

Work still to be done:

Placing of ordinary fill (20%)
Sodding (100%)
Brick pavement (25%)
Boundary wall (12%)
Entrance gate (50%)
Walkways (50%)
Guard house (10%)
Public toilet (10%)
Godown windows (10%)
Godown doors (50%)
Bituminous roofing (50%)
Expansion joint (50%)

Chowmuhani - cont'd

Ancillary buildings: Floor slab (13%)
Patent stone flooring (51%)
Door frames and shutters (30%)
Steel windows (20%)
Stair railing (50%)
Stair steps (51%)
Painting (50%)
Snowcem (55%)
White wash (34%)
Deep tubewell (100%)
Sanitary and Electrical installation to be finished.

Lakshmipur

The project is substantially completed. The permanent power is the only outstanding item of substance.

Chandpur

The access bridge and 37% of the concrete pavement were completed. The last 50% of the godown roof was cast as was 50% of the godown floor slab. The finishing of the ancillary buildings progresses. In spite of the Eid holidays the contractor cast a large amount of concrete with a greatly increased work force.

A test well was drilled with difficulties to 312 ft. A water sample taken there was rejected for human consumption by the Public Health Department because of its high iron content. The contractor is preparing a proposal to connect with Chandpur's public water system since drilling a tubewell to 700-800 ft. appears very risky.

The Contractor did 16% of the work during this month; a very good performance. The total work done is 77%. The completion appears 2-3 months off.

Parbatipur

Work on boundary walls continued slowly. No pavement was cast. 31% of the godown roof (2½ bays of 8) was placed. Very little other work was done at the godown (where not even walls and columns are completed) nor at the ancillary buildings were only 4% of the work was done this month.

The Contractor worked only 14 days during the month ! 2 days got lost in a labor dispute in which some workers got beaten up; 9 days were scheduled Eid holidays; and, the rest of the days of the month no work was performed because neither the supervisors nor laborers returned from the holiday.

7% of the work was done, because of a large godown slab pour. The work completed stands at 67%.

The progress is extremely slow. The contractor's lack of interest and/or inability to manage the site effectively remains the stumbling block for early completion.

RAILWAY SIDINGS

Kishoreganj

Placing fill along the railway siding embankment is in progress and about 60% of the embankment is complete.

Jamalpur

Placing fill along the railway siding embankment is in progress and 80% of the embankment is complete.

Parbatipur

In a joint meeting on 02 May 1985 participated by BR, Coal Directorate and BADC it was agreed that BADC shall construct the railway siding neck 650 feet long towards south as per siding drawing approved by BR. The track shall be used by BADC and Coal Directorate for shunting wagons to respective storage areas. The Coal Inspector (Parbatipur) has decided to misinterpret the decision and will not allow access to land.

BADC has written in this matter to the Bangladesh Railway to have the Coal Directorate give the contractor access to the site to perform his work as previously agreed upon.

Railway siding embankment work complete up to take-off point.

BADC to obtain approval from BR for manufacturer's drawing for mixed gauge turnout sent to BR by BADC.

Cost Estimates

BR's cost estimate for Parbatipur has been reviewed in the joint meeting held with BADC, BR and Ammann & Whitney on 18.5.85 and 19.5.85 and BR will submit modified cost estimate in accordance with the decisions taken in the meeting, see A&W letter #3224 of 23.5.85 to BADC.

BR' cost estimates for Kishoreganj and Jamalpur resubmitted by BR have been reviewed and Engineer's comments have been furnished to BADC vide A&W letter #3223 dated 23.5.85. BADC to ask BR to submit drawings for longitudinal surface drain and cross drains.

PERMANENT POWER CONNECTION

General:

At progress meetings on 18.5.85 and 16.6.85 the Engineer urged BADC(Manager, Storage and Project Director) to obtain the permanent power connections for Phase III projects (and for phase II) through a Chairman (BADC) to Chairman (PDB) approach. The difficulties to obtain electricity will not be overcome by the efforts of BADC at a local level alone; nor by the Engineer or the Contractor(s). If the connections are not made soon their cost may not be included for payment by USAID under present construction contracts.

Letters written to all contractors urging them to obtain the permanent power connection:

A&W Letter # 2388 of 09.10.84
2439 of 18.10.84
2507 of 18.11.84
2891 of 16.02.85
3127 of 13.04.85
3232 of 26.05.85

Plus many field messages.

Kishoreganj:

Contractor applied to PDB, Kishoreganj for permanent power connection. PDB gave an estimate of Tk. 2,26,292.50. A&W wrote to BADC Dhaka to have BADC obtain a lower estimate. The Manager (Storage) wrote to the Regional Manager and obtained a reduced estimate from PDB. It amounts to Tk. 46,868.25 plus a 50 KVA transformer to be purchased and turned over to PDB. The Engineer asked the contractor for a proforma invoice for purchasing a transformer. The contractor has been notified to deposit amount with PDB.

Jamalpur:

Application submitted to Executive Engineer, PDB by Regional Manager, Fertilizer, BADC, Jamalpur on 11.12.84. Several visits were made by the contractor to PDB to obtain an estimate for the connection. No response from PDB. The Manager (Storage) wrote to the Regional Manager to take up the permanent power connection with PDB.

No change from last month.

Dohazari:

BADC's Subdivisional Manager, Dohazari applied for permanent power at PDB, Dohazari on 20.04.85. The Resident Engineer PDB Dohazari wrote the PDB Executive Engineer, Patiya, Chittagong. PDB has stated that enough transformer capacity is available to connect this site.

No change from last month.

Cox's Bazar:

The contractor applied for a permanent power connection as early as 29.03.84. He was then turned down by PDB because they require the building to be finished before an application can be filed. The electrical contractor then has to certify that the electrical installation was built in accordance with PDB's standard. Only then will the application be processed even though it may take PDB one year to supply a necessary transformer !

The contractor applied again thru SDM, BADC Cox's Bazar in November 1984. The application was investigated in April 1985. The contractor was advised to revise the application. The revised application with load back-up requested was submitted on 20.04.85. PDB replied on 22.04.85 to BADC that the existing transformer can not handle any additional load. The load could be supplied if BADC build a 100 KVA substation at their site. This letter reached the Engineer one month later.

The Engineer informed BADC that a 50 KVA transformer is required for this site as the total load needed is 35 KVA and requested BADC to approach PDB for estimate with 50 KVA transformer.

BADC's Subdivisional Manager obtained from PDB a list of materials plus transformer needed for the permanent power connection plus an estimate for their cost to install the transformer. The Engineer notified the contractor to get a quotation for the materials and transformer for handing over to PDB for the incoming power line.

Chowmuhani:

BADC Regional Manager, Maizdi wrote to PDB Maizdi on 10.04.85 applying for a power connection with filled in application form. According to inquiries made by Latif Mollah PDB has no available capacity for an additional load. A new transformer will be required but PDB has no transformer at present and doubts that one will be available in the 85-86 financial year. The Superintending Engineer suggests that BADC supply the transformer. He will reply in this regard to BADC's application with an estimate for the installation.

No change from last month.

Lakshmipur:

Contractor applied thru Regional Manager BADC Maizdi for a power connection on 14.01.85. On 16.03.85 the PDB Resident Engineer wrote to the BADC Regional Manager, Noakhali that due to low capacity of the system a connection of 20 KVA cannot be made. He asked that BADC contact the Executive Engineer PDB Maizdi to request improvement of the system.

According to Executive Engineer, PDB Noakhali the capacity of the existing transformer does not allow new connections. PDB has no transformer at present and doubts that one will be available in the 85-86 financial year. The Executive Engineer Noakhali has sent the application to the Superintending Engineer in Comilla.

Lakshmipur - cont'd

The military unit occupying part of BADC's complex has the power connected and uses the deep tubewell pump. (At 24.00 hours since the voltage is too low at any other time). The Regional Manager Maizdi was urged by Technocon (the contractor) to take advantage of the situation and reapply, allowing the old connection to be discontinued and working with one new connection with two meters, one for BADC's facilities and one for residential use to take advantage of lower rates for this purpose.

The military unit moved out. The power to the deep tube well was disconnected by PDB. An Additional District Commissioner has moved into the BADC guest house and had PDB connect the power to the deep tube well again on a temporary basis. BADC may take advantage of the presence of ADC and obtain permanent power connection.

Chandpur:

Application for power connection was made on 29.11.84 by BADC. The contractor has made various visits to the PDB office but has been unable to obtain even an estimate for the connection.

The Executive Engineer PDB Chandpur wrote to BADC that transformer capacity is not available. Since PDB has no transformers at present BADC would have to supply the transformer. Asstt. Manager BADC by a letter (No.388 dated 18.6.85) informed PDB that a transformer shall be supplied by BADC and he (Executive Engineer) was requested to send an estimate for the incoming power line. No response from PDB yet.

Parbatipur:

Application for permanent power was made on 18.10.84. PDB Resident Engineer Parbatipur informed the Regional Manager BADC Dinajpur that the existing transformer near the site has a capacity of 45 KVA and to feed the BADC godown a 100 KVA transformer is required. (Only a 50 KVA transformer required). RE Parbatipur has no stock of 100 KVA transformer.

The Manager (Storage) BADC requested the Regional Manager to obtain an estimate from PDB.

The Engineer directed the contractor (A&W Letter #3234) to buy a 50 KVA transformer and obtain an estimate from PDB with a breakdown of required materials which then should be procured by the contractor and handed over to PDB for making a connection.

No change from last month.

CONSTRUCTION CONTRACT AND FINANCIAL SUMMARY

Contractor's Activities

Date : 30 June 1985

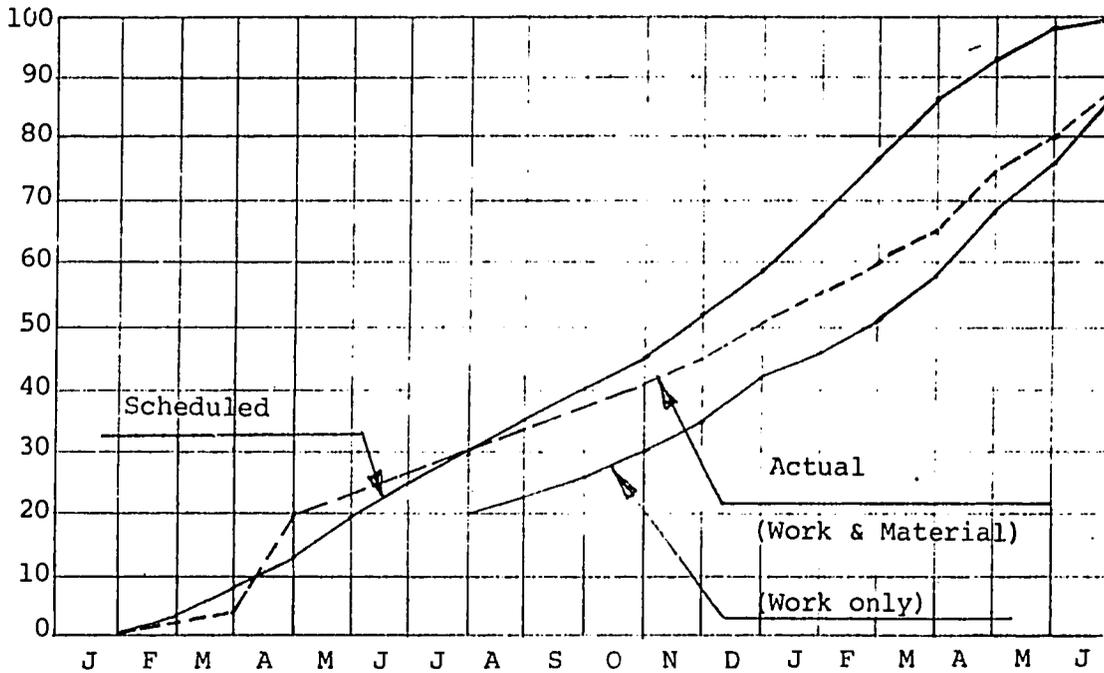
	<u>L.C. Amount US \$</u>	<u>L.C. Equivalent (Tk)</u>	<u>Revised Contract Amount (Tk)</u>	<u>Retention (Tk)</u>	<u>Accumulated Amount Invoiced (Tk)</u>
Invitation No.1	Bl-Kishoreganj	National Construction & Consult Ltd.			
L.C. 388-002403	797,885.00	1,98,40,012.82	-		
Change Order Bl-01		(- 88,848.31)	1,97,51,164.51	9,87,559.00	1,29,29,860.18
Invitation No.2	C3-Jamalpur	Mostafa Brothers (Pvt) Ltd.			
L.C. 388-002404	711,599.00	1,76,94,451.01		8,84,722.55	1,26,27,404.64
6-I Invitation No.3	F1-Dohazari	The Eastern Engineers Consortium Ltd.			
L.C. 388-002405	625,317.00	1,55,48,978.95	-		
		7,162.50	1,55,56,141.45	7,77,807.10	90,72,352.93
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		
		1,92,790.00	1,06,59,080.63		
		40,440.00	1,06,99,520.63	5,34,976.02	85,62,198.84
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	7,25,356.09	92,00,547.48
Change Order H2-02		3,80,099.25	1,45,07,121.25		

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	-	2,82,208.01	47,99,077.55
Change Order H3-01		5,000.00	55,96,275.35		
Change Order H3-02		80,700.00	56,76,975.35		
Change Order H3-03		(- 32,815.00)	56,44,160.35		
Change Order H3-04		62,876.00	57,07,036.35		
Change Order H3-05		17,500.00	57,24,536.35		
Invitation No.7	I4-Chandpur	Fazle Azim Engineers Ltd.			
L.C. 388-002409	686,398.00	1,70,67,822.35	-	9,38,553.29	1,07,80,636.36
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		
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 I4-05*		4,75,290.00	1,92,46,355.85		
Change Order I4-06*		2,30,600.00	1,94,76,955.85		
Invitation No.8	I4-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			
		(- 500.00)	1,70,01,696.40	8,50,084.82	1,01,26,168.03
TOTAL	5,000,000.00	12,79,10,843.05	12,09,94,671.07	59,81,266.88	7,86,81,329.63

I-10

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	16.0
	0	1	20	20	20	26	28	33	35	45	51	53	58	64	71	85	94		
Jamalpur	3	8	14	19	23	27	31	34	39	46	55	63	72	81	90	98	100	15.35	14.3
	0	2	18	19	21	25	31	36	40	44	50	55	58	64	75	81	93		
Dohazari	4	10	16	22	30	38	43	48	51	55	60	69	79	87	94	99	100	13.31	11.2
	0	1	21	24	32	32	34	39	42	47	49	55	59	63	72	80	84		
Cox's Bzr	2	7	12	18	24	32	40	50	59	67	76	85	93	98	100			8.53	8.4
	0	1	27	37	42	36	41	51	57	60	65	67	73	80	98*	98*	98*		
Chowmuhani	2	8	15	21	28	33	37	40	43	48	54	65	75	84	92	98	100	12.09	10.3
	0	1	13	18	33	33	34	39	39	41	48	52	56	63	72	76	85		
Lakshmipur	2	9	16	22	30	37	46	56	67	77	88	98	100					4.79	4.7
	0	8	30	36	39	39	43	51	54	68	81	89	95*	98*	99*	99*	99*		
Chandpur	1	4	9	14	19	24	30	35	41	48	56	65	74	84	93	98	100	14.61	11.8
	0	1	11	18	26	29	34	38	43	47	49	52	55	59	64	70	81		
Parbatipur	2	9	16	23	30	33	36	39	42	48	56	65	74	83	92	98	100	14.55	10.6
	0	1	17	17	27	28	29	30	30	32	38	43	53	59	64	66	73		

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

Total : 87.3
 Last Month : 79.5

* Substantially Complete

15

CONSTRUCTION PERCENT COMPLETION
(WORK ITEMS ONLY)

Site	- A - SITE DEVELOPMENT	- B - WAREHOUSE	- C - ANCILLARY BUILDINGS	- D - WATER SUPPLY SANITARY	- E - ELECTRICAL	TOTAL
Kishoreganj	95%	95%	95%	97%	47%	94%
Jamalpur	92%	97%	95%	99%	35%	93%
Dohazari	90%	89%	82%	51%	20%	83%
Cox's Bazar	99%	100%	99%	99%	90%	98% *
Chowmuhani	90%	93%	90%	22%	14%	85%
Lakshmipur	100%	100%	100%	99%	95%	99% *
Chandpur	76%	86%	84%	28%	25%	77%
Parbatipur	81%	61%	75%	21%	9%	67%

Overall Project Completion - (Work Items Only) : 86%
Last Month : 76%

* Substantially complete

Kishoreganj (see Note)

Letter of Guarantee

LG 84/75 dated 15.01.84, BCCI Expiry date : 31 Dec 84
Extension : GTE/CM/84/3448, 13.12.84 : 30 June 1985

Insurance

Policy DAC/CAR/P-09/4/84
Period 12.03.84 to 11.03.85 plus 6 months maintenance
Extension: DAC/CAR/E-10/4/85 30.06.85 plus 6 mos. maintenance (31.12.85)

Jamalpur (see Note)

Letter of Guarantee

PB/TK/010, 11.01.84, Banque Indosuez, Dhaka Expiry Date : 31 Dec 84
Extension : Banque Indosuez, 09.12.84 : 30 June 1985

Insurance

Policy DAC/CAR/P-08/4/84
Period 16.02.84 to 15.02.85 plus 12 months maintenance
Extension : DAC/CAR/E-04/2/85, 30.06.85 plus 12 mos. maintenance (30.06.86)

Dohazari

Letter of Guarantee

001/84, 13.01.84, Agrani Bank, BAF Branch, Dhaka Expiry Date : 31 Dec 84
Extension : KBM/ADMN/1266/84, 18.12.84 : 30 June 1985
Second Extension : In process

Insurance

Policy DAC/CAR/P-12/5/84
Period 01.03.84 to 31.12.84 plus 6 months maintenance
Extension: DAC/CAR/E-08/3/85, 30.06.85 plus 6 mos. maintenance (31.12.85)
Second Extension : In process

Cox's Bazar

Letter of Guarantee

PB/TK/009, 11.01.84, Banque Indosuez, Dhaka Expiry Date : 31 Dec 84
Extension : Banque Indosuez 01.12.84 : 30 April 1985
2nd Ext : : 30 June 1985

Insurance

Policy DAC/CAR/P-13/5/84
Period 08.03.84 to 31.12.84 plus 6 months maintenance
Extension: DAC/CAR/E-18/12/84, 31.04.85 plus 6 mos. maintenance (31.10.85)

Chowmuhani

Letter of Guarantee

PB/TK/006, 10.01.84, Banque Indosuez, Dhaka Expiry Date : 31 Dec 84
Extension : Banque Indosuez 01.12.84 : 30 June 1985
2nd Extension " " 13.06.85 : 30 July 1985

Insurance

Policy DAC/CAR/P-07/4/84
Period 12.03.84 to 11.03.85 plus 6 months maintenance
Extension: DAC/CAR/E-17/12/84, 30.06.85 plus 6 mos. maintenance
2nd Extension : 30.07.85 " " "

Lakshmipur

Letter of Guarantee

PB/TK/007, 10.01.84, Banque Indosuez, Dhaka Expiry Date : 31 Dec 84
Extension : Banque Indosuez 01.12.84 : 28 February 1985

Insurance

Policy DAC/CAR/P-06/4/84
Period 12.03.84 to 11.03.85 plus 6 months maintenance

Chandpur

Letter of Guarantee

MCK/002/84, 13.01.84, Janata Bank, Expiry Date : 31 Dec 84
Extension : EM/LG(P)-2/1330/84, 18.12.84 : 30 June 1985
Extension : SMM:ADV:LG(P)-2/85(ABS) 16.06.85 : 30.09.85

Insurance

Policy DAC/CAR/P-10/5/84
Period 23.02.84 to 31.12.84 plus 6 months maintenance
2nd Extension : In process

Parbatipur

Letter of Guarantee

LG 84/42, 10.01.84, BCCI Expiry Date: 08 Jan 85
Extension : GTE/SA/84/1427, 12.12.84 : 08 July 1985
Extension : GTE/ 1199, 19.03.85 : 08 October 1985

Insurance

Policy DAC/CAR/P-11/5/84
Period 08.03.84 to 31.12.84 plus 12 months maintenance
Extension : DAC/CAR/E-01/1/85: 30.06.85 plus 6 mos. maintenance
2nd Extension : In process

Note: Kishoreganj and Jamalpur
Contractors neither extended their performance
guarantee nor their insurance beyond 30 June
as directed. A letter was sent to each of
their surety establishing a claim prior to
expiry date. BADC was requested to direct the
insurance carrier, SBC, to extend period
of policy beyond 06.30.85.

INVITATION NO. : B1-KISHOREGANJ

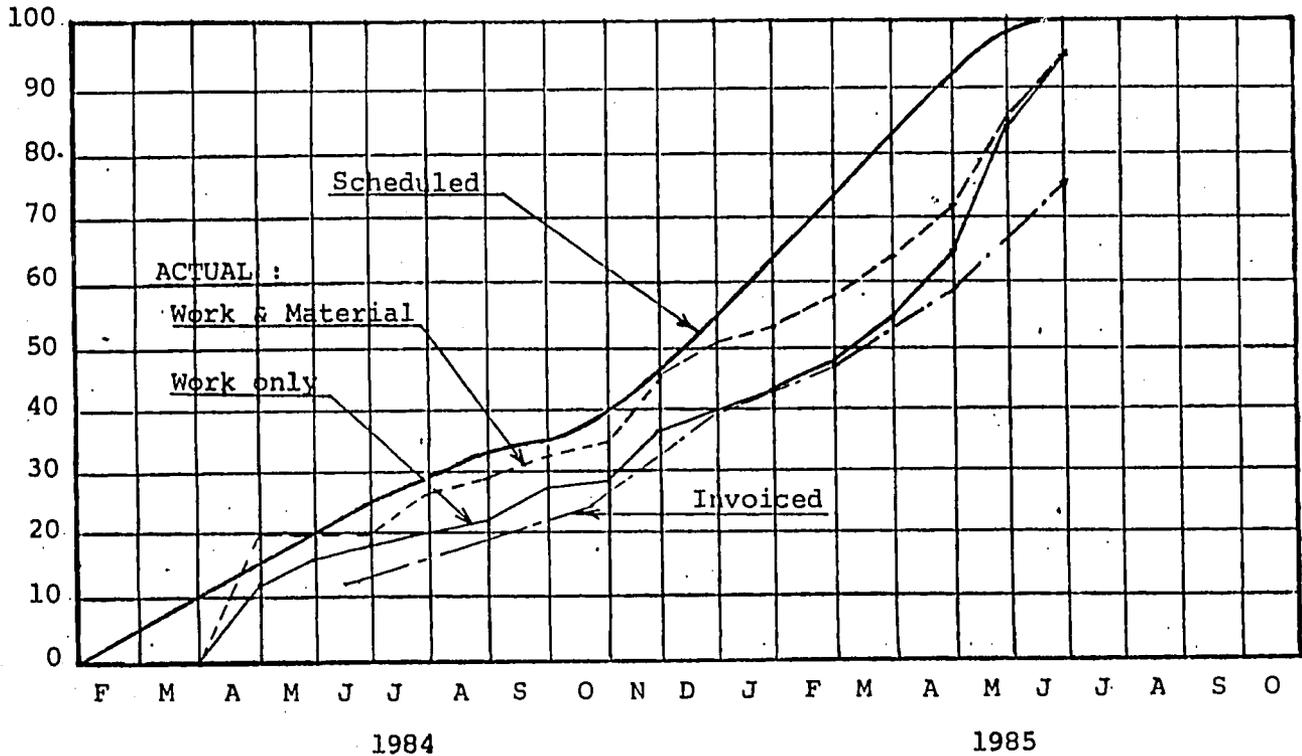
CONTRACTOR : National Construction & Consult Ltd.

Total Contract Price	: Tk.1,98,40,012.82	Date of Contract	: 16.01.84
Change Order/Directives	: (-) 88,848.31	Site Handed Over	: 29.01.84
Revised Contract Price.	: 1,97,51,164.51	Notice To Proceed	: 02.02.84
L/Com No.	: 388-002403	Scheduled Completion	: 30.06.85
Date of L/Com.	: 31.01.84	Elapsed Time	: 494 days 100 %
Amount of L/Com.	: Tk.1,98,40,012.82		

L/Com. Amendment No.1	: 13.02.84
L/Com. Amendment No.2	: 03.02.85
Performance Guarantee	: BCCI LG 84/75
	Tk.19,84,002
Extended Expiry	: 30.06.85
CAR/PL Insurance	: DAC/CAR/P-09/4/84
Endorsement	: DAC/CAR/E-10/85
Expiry	: 30.06.85

%Completion			
Scheduled		Actual	
This Period	To Date	This Period	To Date
2%	100%	9%	94%
	Work	: 10%	94%
	Material	:- 1%	-

CONSTRUCTION PROGRESS



	<u>This Period.</u>	<u>To Date</u>
A. Site Development	4%	95%
B. Warehouse	10%	95%
C. Ancillary Buildings	16%	95%
D. Water Supply, Sanitary, Plumbing	49%	97%
E. Electrical	34%	47%

Activities

The brick pavement was completed, A large amount of concrete aprons, walways and curb was placed. Most of the sodding was done, ordinary fill was placed.

At the godown the last part (1½ bays) of the roof was cast, the finishing of the roof is in process. The brick floor was finished, the concrete platforms were cast and the roof vent was done. The bituminous roofing is in process.

At the ancillary buildings the concrete floor was finished, the patent flooring was done, door frames and shutters as well as window frames were installed. The plastering was done and the painting is in process. The lime terrazing was finished and installation of plumbing and electrical items is on going.

Action Required

None

Work Scheduled Next Month

Complete all outstanding items of godown, ancillary buildings and redo rejected work. Grade the site according to plans.

Claims None

Financial

<u>Invoice No.</u>	<u>Period Ending</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	08.10.84	28,31,830.22	28,10,013.22	171
B1-03	06.12.84	29,17,240.36	29,17,240.36	0514
B1-04	10.02.85	14,08,407.62	14,08,407.62	-
B1-05	22.04.85	23,68,248.60	23,68,248.60	1354
B1-06	23.05.85	12,68,050.38	12,68,050.38	

Tk. 1,29,29,860.18

65.5%

Variations (Change Orders, Overruns, Underruns)

None this month.

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CONSOLIDATED MATERIALS TESTING REPORT

Project : Fertilizer Warehouses Phase III

For the month June 1985

Site : Kishoreganj

Material/Test	Spec. No.	No. of Tests	No. Approved	No. Dis-Approved	Remarks/Requirements
A. Field Density Tests: Select Fill	2E.01	15	13	2	95% MDD

No. of test at
3 days 7 days 14 days 28 days

B. Concrete:					
Compressive	3A.03				
Strength Test	3A.05		3	11	24

Average 28 day Strength of Concrete:

1. Godown roof slab - 4469 psi (Av. of 18 cylinders)
2. Godown roof vent slab - 4413 psi (Av. of 3 cylinders)
3. R1 roof slab and stair 4th flight - 4218 psi (Av. of 3 cylinders)

30 June 1985

INVITATION NO.2 : 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 : 14.02.84

L/Com. Amendment No.2 : 03.02.85

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

Extended Expiry : 30.06.85

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

Encumbrance : DAC/CAR/E-04/2/85

Expiry : 30.06.85

Date of Contract : 12.01.84

Site Handed Over : 19.01.84

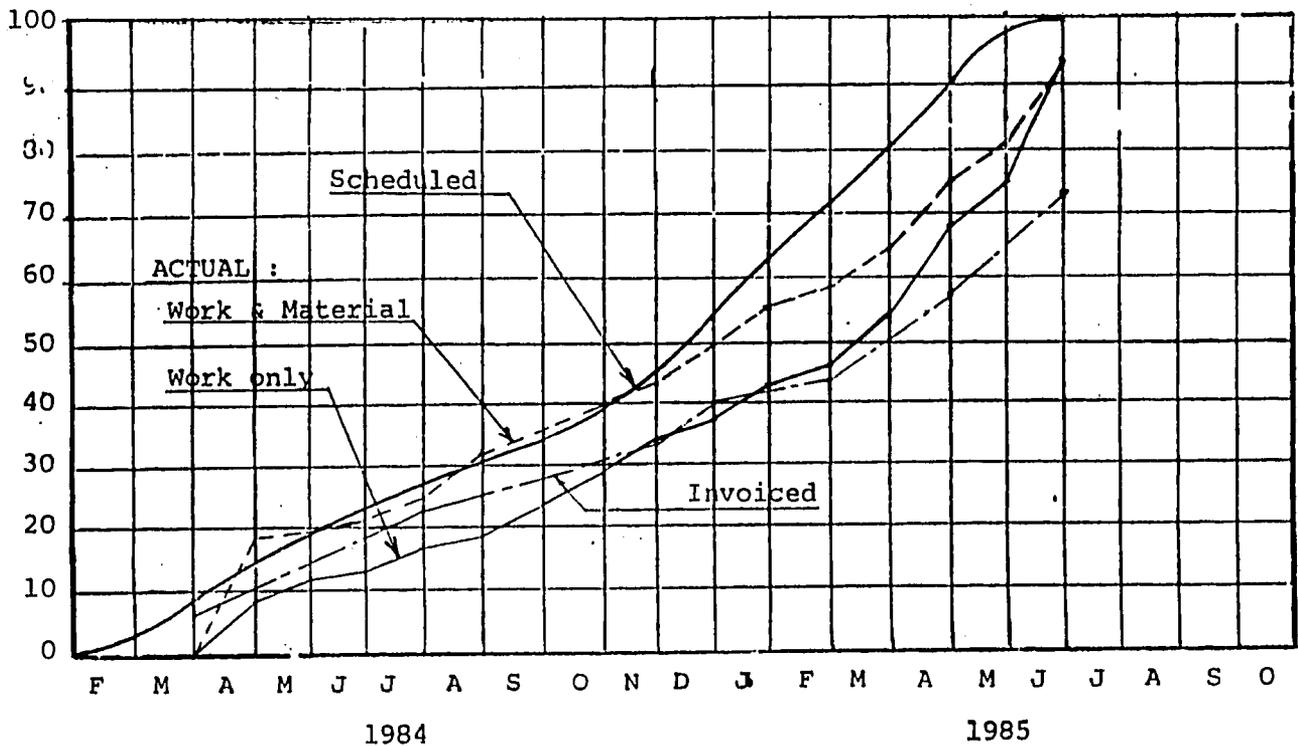
Notice To Proceed : 02.02.84

Scheduled Completion: 30.06.85 (494)

Elapsed Time : 494 days 100%

%Completion			
Scheduled		Actual	
This Period	To Date	This Period	To Date
2%	100%	12%	93%
	Work	: 18%	93%
	Material	:- 6%	-

CONSTRUCTION PROGRESS



	<u>This Period</u>	<u>To Date</u>
A. Site Development	14%	92%
B. Warehouse	19%	97%
C. Ancillary Buildings	9%	95%
D. Water Supply, Sanitary, Plumbing	60%	99%
E. Electrical	12%	35%

22

Activities

Brick and concrete pavement, fill for the railway embankment, guard house and boundary wall were completed. Work on grass embankment protection, aprons, public toilet and tally office continued.

At the 3,500 MT godown the truck and railway platform were completed. Bituminous roofing, placing of doors and windows, roof slab finishing and installation of electrical fixtures is still going on. At the 1,500 MT godown the roof was cast as was the truck loading platform and the roof vent. The doors were installed. The railway platform is in progress.

At the ancillary buildings all plastering, patent stone flooring, soak wells, septic tanks, construction of the deep tube well was completed. White washing, painting, installation of sanitary and electrical works are in process.

The progress of work during this month was 18% to 93% of completion. This project will be substantially completed in July.

Actions Required

BADC : Obtain estimate for permanent power connection from PDB.

Work Scheduled Next Month

Finish fine grading, placing of top soil, planting of grass, entrance gate, walkways public toilet, tally office godown slab repairs and cement wash, fixed windows, other windows in ancillary, buildings, painting, white washing, installation of switch boards, sanitary and electrical works. Remove contractor's facilities.

Claims:

Claim for additional unit cost for concrete pavement for quantity exceeding B.Q, Mostafa letter No. 583 dt. 8.6.85. Rejected by A&W letter # 3283 of 12.6.85.

Claim for additional cost for brick pavement, Mostafa letter # 582 of 8.6.85. Rejected by A&W letter # 3282 of 12.6.85.

Financial:

<u>Invoice No.</u>	<u>Period Ending</u>	<u>Amount Invoice (Tk.)</u>	<u>Payment(Tk)</u>	<u>USAID 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	17.06.84	18,64,836.23	18,64,836.23	1607
C3-03	27.09.84	8,62,230.34	8,62,230.32	127
C3-04	13.11.84	9,13,152.12	9,13,152.12	322
C3-05	20.12.84	11,46,930.49	11,46,930.49	0578
C3-06	26.01.85	6,79,664.48	6,79,664.48	-
C3-07	27.03.85	11,18,867.80	11,18,867.80	-
C3-08	24.04.85	12,26,403.76	12,26,403.76	1353
C3-09	17.05.85	7,68,989.95	7,68,989.95	-
C3-10	16.06.85	18,33,913.51	-	-
			<u>1,07,93,491.13</u>	
			62.6%	

Variations (Change Orders, Overruns, Underruns)
None this month. C3-2

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CONSOLIDATED MATERIALS TESTING REPORT

Project : Fertilizer Warehouses Phase III

For the month June 1985

Site : Jamalpur

Material/Test	Spec. No.	No. of Tests	No. Approved	No. Dis-Approved	Remarks/Requirement
A. Concrete Sand	3A.02-b.1	3	3	0	F.M. 2.3 to 3.1
B. Concrete Coarse Aggregate	3A.02-b.2	3	2	1	
C. Bricks: Frogmarks: JBM	4A.02	5	5	0	
D. Pea Gravels	4A.05	1	1	0	
E. Field Density Tests: Select Fill	2E.01	38	38	0	95% MDD

No. of test at
3 days 7 days 14 days 28 days

F. Concrete: Compressive Strength Test	3A.03 3A.05	41	6	9	
--	----------------	----	---	---	--

Average 28 day Strength of Concrete:

1. Road pavement - 4439 psi (Av. of 2 cylinders)
2. 3500 MT godown roof slab - 4306 psi (Av. of 4 cylinders)
3. 3500 MT godown floor slab - 3184 psi (Av. of 3 cylinders)

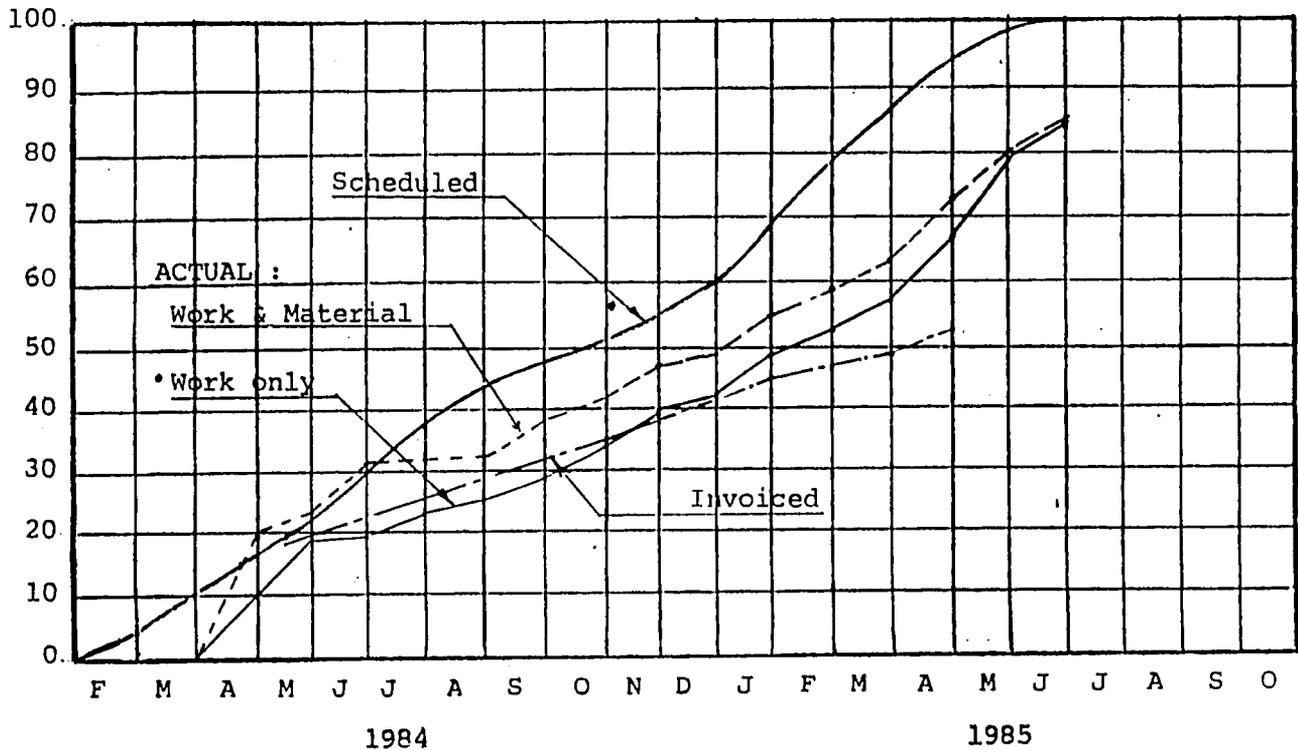
INVITATION NO. 3 : F1-DOHAZARI

CONTRACTOR : The Eastern Engineers Consortium Ltd.

Total Contract Price	: Tk.1,55,48,978.95	Date of Contract	: 16.01.84
Change Order/Directives	: 7,162.50	Site Handed Over	: 26.01.84
Revised Contract Price.	: 1,55,56,141.45	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	: 494days . 100%
Amount of L/Com.	: Tk.1,55,48,978.95 (\$625,317.00)		
L/Com. Amendment No.1	: 14.02.84		
L/Com. Amendment No.2	: 03.02.85		
Performance Guarantee	: Agrani 001/84 Tk.15,54,900		
Extended Expiry	: 31.08.85		
CAR/PL Insurance	: DAC/CAR/P-12/5/84		
Endorsement	: DAC/CAR/E-08/85		
Expiry	: 30.06.85		

%Completion			
Scheduled		Actual	
This Period	To Date	This Period	To Date
1%	100%	4%	84%
Work	:	4%	83%
Material	:	-	1%

CONSTRUCTION PROGRESS



	<u>This Period.</u>	<u>To Date</u>
A. Site Development	1%	90%
B. Warehouse	6%	89%
C. Ancillary Buildings	5%	82%
D. Water Supply, Sanitary, Plumbing	1%	51%
E. Electrical	5%	20%

25

Activities

The placing of select fill was nearly completed. Only about 3% of brick pavement was laid because of a lack of masons. Some concrete for curb and apron was placed bringing this item to only 30% completion because only 2 carpenter are working at the site.

At the godown the roof vent was completed. Only 50% of the brick paving and 5% of the concrete for floor slab and platform was cast. Some finishing work on godown roof was done.

At the ancillary buildings the lime terracing was completed at R1 and R2. The patent flooring was partly done at R1 and R3. Some precast louvers were set. The white washing was started. Wire and plumbing work is in progress.

Action Required

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

. To help to obtain the permanent power connection from PDB.

Work Scheduled Next Month

All work should be vigorously pressed to keep the delay in completion to a minimum ! This means the work force has to be greatly increased, more carpenters and masons have to be hired immediately.

Claims: None

Financial

<u>Invoice No.</u>	<u>Period Ending</u>	<u>Amount Invoice (Tk)</u>	<u>Payment</u>	<u>USAID Voucher No.</u>
F1-01	Material Prepayment	27,15,000.00	27,15,000.00	1281
F1-02	31.07.84	11,71,789.83	11,71,780.00	1853
F1-03	20.10.84	13,50,596.94	13,50,564.27	242
F1-04	17.12.84	11,03,195.15	11,03,195.15	-
F1-05	25.02.85	6,74,331.36	6,74,331.36	-
F1-06	27.04.85	9,86,812.73	9,86,812.73	1355
F1-07	15,06.85	10,70,636.65		
			Tk. 80,01,683.51	
			(51.44%)	

Variations (Change Orders, Overruns, Underruns)

A3	Excavation to Waste	- 1,06,874.50
A4	Excavation	- 89,830.87
A6	Filling with Imported Materials (Select)	- 10,86,002.50
A21	Surcharge	- 46,970.00
Total Underrun		13,29,677.87

26

CONSOLIDATED MATERIALS TESTING REPORT

Project : Fertilizer Warehouses Phase III

For the month June 1985

Site : Dohazari

Material/Test	Spec. No.	No. of Tests	No. App- roved	No. Dis- Approved	Remarks/Requirements
A. Concrete Sand	3A.02- b.1	1	1	0	F.M. 2.3 to 3.1
B. Mortar Sand	4A.03	1	1	0	F.M. 1.8 to 2.8
C. Concrete Coarse Aggregate	3A.02- b.2	1	1	0	
D. Field Density Tests: Select Fill	2E.01	50	44	6	90 & 95% MDD

No. of test at
3 days 7 days 14 days 28 days

E. Concrete:					
Compressive	3A.03				
Strength Test	3A.05	5	12	12	

Average 28 day Strength of Concrete:

1. Godown roof slab - 3575 psi (Av. of 12 cylinders)

30 June 1985

INVITATION NO. 4 : F3-COX'S BAZAR

CONTRACTOR : Builders The Best Ltd.
 Total Contract Price : Tk.99,64,470.85
 Change Order/Directives : 7,35,049.78
 Revised Contract Price. : 1,06,99,520.63
 L/Com No. : 388-002406
 Date of L/Com. : 31.01.84
 Amount of L/Com. : Tk.99,64,470.85
 (\$400,731.00)

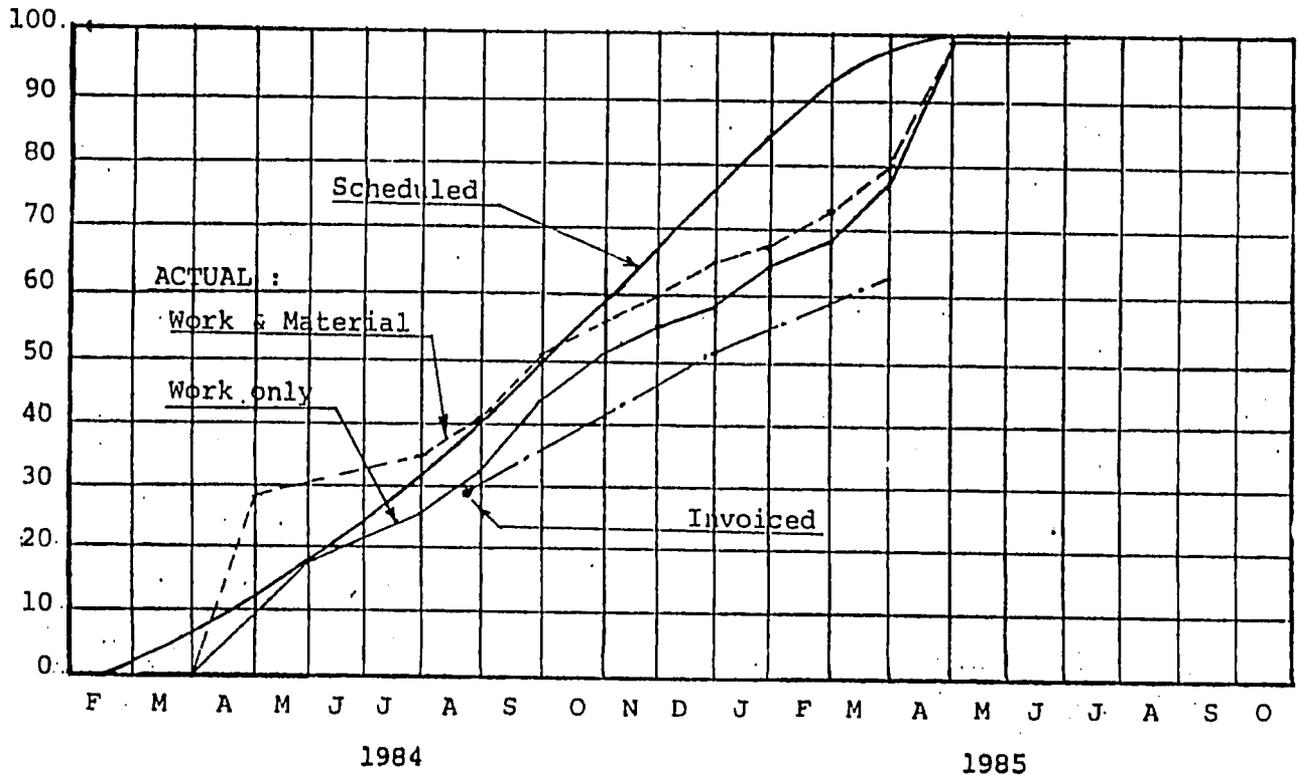
Date of Contract : 12.01.84
 Site Handed Over : 26.01.84
 Notice To Proceed : 23.02.84
 Scheduled Completion:30.04.85(433)
 Elapsed Time : - days .100 %

PROJECT SUBSTANTIALLY COMPLETE

L/Com. Amendment No.1 :

Performance Guarantee : Indosuez PB/TK/009
 Tk.10,00,000
 Extended Expiry : 30.06.85
 CAR/PL Insurance : DAC/CAR/P-13/5/85
 Endorsement : DAC/CAR/E-18/12/84
 Expiry : 30.04.85

CONSTRUCTION PROGRESS



	<u>This Period.</u>	<u>To Date</u>
A. Site Development	-	99%
B. Warehouse	-	100%
C. Ancillary Buildings	-	99%
D. Water Supply, Sanitary, Plumbing	4%	99%
E. Electrical	-	90%

DB

Activities

This project was substantially completed on 30 May 1985 and accepted as such by the Engineer on 5.5.85. A document to that effect was signed by Engineer and contractor. It includes a punch list of items to be corrected or not yet done.

The contractor finished the pump house but is still working on punch list items. The river access is being reanalysed. It can not be built during the present monsoon season with its high river water level. A material list and an estimate for PDB's cost was obtained by BADC from PDB. The contractor will be asked to purchase the electrical materials including a transformer.

Action Required

None

Work Scheduled Next Month

Finish all punch list items. Obtain materials for the permanent power connection. Hand over the project to Manager Storage BADC.

Claims : None

Financial

<u>Invoice No.</u>	<u>Period Ending</u>	<u>Amount Invoice(Tk)</u>	<u>Payment(Tk)</u>	<u>USAID Voucher No.</u>
F3-01	31.07.84	29,70,417.00	29,40,711.36	1954
F3-02	30.11.84	23,66,978.68	20,56,826.46	0513
F3-03	28.02.85	16,02,201.27	16,02,201.27	
F3-04	30.04.85	19,62,459.75	19,62,459.75	
			<u>85,62,198.84</u>	
			80.0%	

Variations (Change Orders, Overrun, Underrun)

No change order during this month.

INVITATION NO. 5 : H2-CHOWMUHANI

CONTRACTOR : Technocon Limited

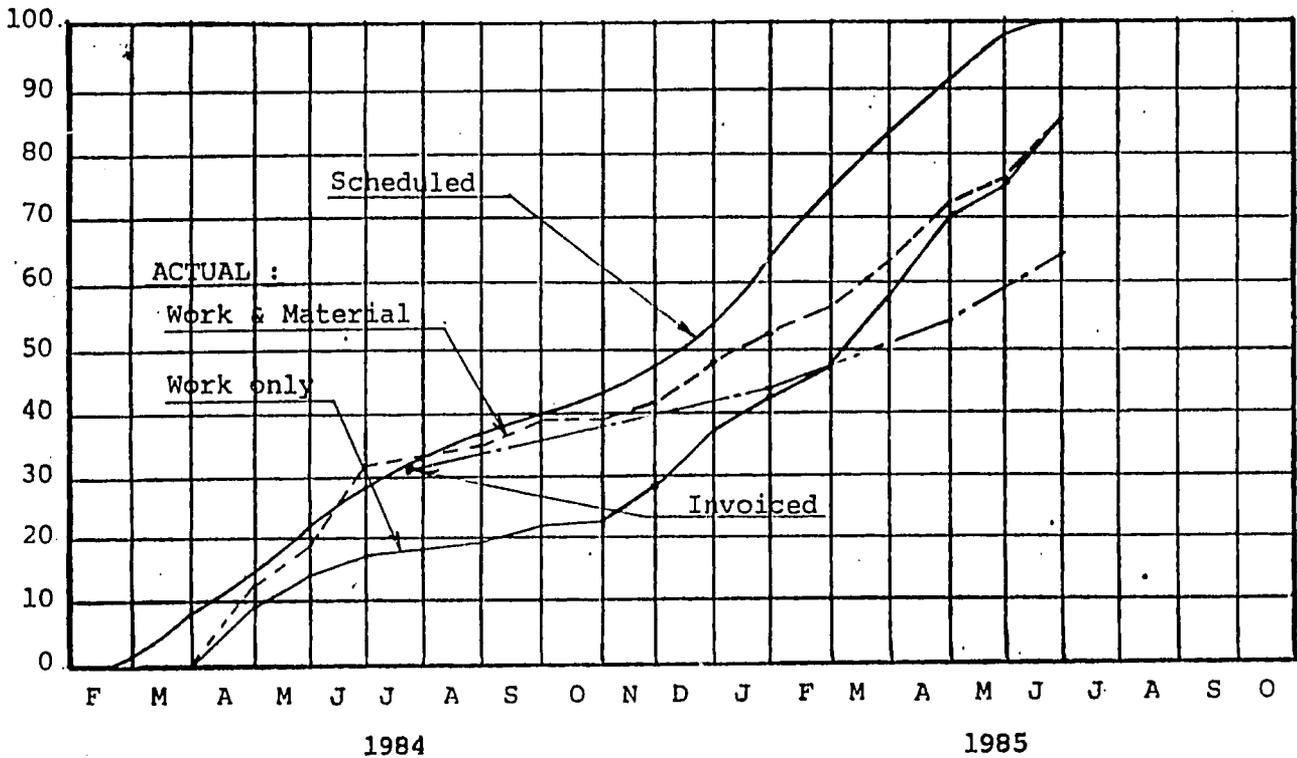
Total Contract Price : Tk. 1,41,20,342.60
 Change Order/Directives : 3,86,779.25
 Revised Contract Price : 1,45,07,121.85
 L/Com No. : 388-002407
 Date of L/Com. : 31.01.84
 Amount of L/Com. : Tk.1,41,20,342.60
 (\$567,863.00)

Date of Contract : 12.01.84
 Site Handed Over : 31.01.84
 Notice To Proceed : 23.02.84
 Scheduled Completion: 3.07.85(497)
 Elapsed Time : 494 days . 99 %

L/Com. Amendment No.1 : 03.02.85
 Performance Guarantee : Indosuez PB/TK/006
 Tk.14,12,035
 Extended Expiry : 30.07.85
 CAR/PL Insurance : DAC/CAR/P-07/84
 Endorsement : DAC/CAR/E-17/12/84
 Expiry : 30.06.85

%Completion			
Scheduled		Actual	
This Period	To Date	This Period	To Date
2%	100%	9%	85%
	Work	: 10%	85%
	Material	:- 1%	-

CONSTRUCTION PROGRESS



	<u>This Period.</u>	<u>To Date</u>
A. Site Development	14%	90%
B. Warehouse	4%	93%
C. Ancillary Buildings	15%	90%
D. Water Supply, Sanitary, Plumbing	8%	22%
E. Electrical	1%	14%

Activities

A lot of brick pavement was placed during this month. Filling with ordinary fill and placing of top soil continues. Concrete apron, curbs and loading platforms are being cast.

At the godown the brick floor was completed. The roof slab was finished at the inside, the finishing of the outside is going on. Electrical conduits are being installed. The godown doors have been installed. The bituminous roofing work was stopped by rainy weather.

At the ancillary buildings the patent flooring (except for the stairs) was finished. The concrete floors were finished. Door shutters and windows were installed. Painting and snowcem painting are in progress. Little sanitary installation and some electrical work was done.

The deep tubewell was drilled and caved in at 915 ft. The contractor is negotiating for a different well. There were 19 days with some rain this month which effected the painting, paving, bituminous roofing and lime terracing.

Action Required

BADC: To obtain estimate for permanent power connection from PDB.

Work Scheduled Next Month

Do all work not yet done to turn over project to BADC.

Claims:

Claim for 3 weeks time extension due to cyclone, Technocon letter #150/85 of 6.6.85. Extention of 3 days granted by A&W letter #3295 of 16.6.85.

Financial

<u>Invoice No.</u>	<u>Period Ending</u>	<u>Amount Invoice (Tk)</u>	<u>Payment</u>	<u>USAID Voucher No.</u>
H2-01	16.06.84	48,07,208.61	48,07,208.61	1572
H2-02	20.01.85	14,30,222.28	14,30,222.28	-
H2-03	31.03.85	14,41,849.72	14,41,849.72	1205
H2-04	02.06.85	15,21,267.32	15,21,267.32	1605
			Tk. 92,00,547.96	
			63.4%	

Variations

None

CONSOLIDATED MATERIALS TESTING REPORT

Project : Fertilizer Warehouses Phase III

For the month June 1985

Site : Chowmuhani

Material/Test	Spec. No.	No. of Tests	No. Approved	No. Dis-Approved	Remarks/Requirements
A. Field Density Tests: Select Fill	2E.01	15	15	0	95% MDD

No. of test at
3 days 7 days 28 days

B. Concrete:					
Compressive	3A.03	9	30		
Strength Test	3A.05				

Average 28 day Strength of Concrete:

1. Godown roof slab - 3776 psi (Av. of 20 cylinders)
2. Ancillary Building Floor slab - 3449 psi (Av. of 5 cylinders)
3. Drainage curb - 3436 psi (Av. of 3 cylinders)
4. Godown roof vent - 3602 psi (Av. of 2 cylinders)

30 June 1985

INVITATION NO. : H3-LAKSHMIPUR

CONTRACTOR : Technocon Limited

Total Contract Price : Tk.55,91,275.35

Change Order/Directives : 1,33,261.00

Revised Contract Price : 57,24,536.35

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

Extended Expiry : 28.02.85

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

Endorsement : -

Expiry : 11.03.85

Date of Contract : 12.01.84

Site Handed Over : 31.01.84

Notice To Proceed : 23.02.84

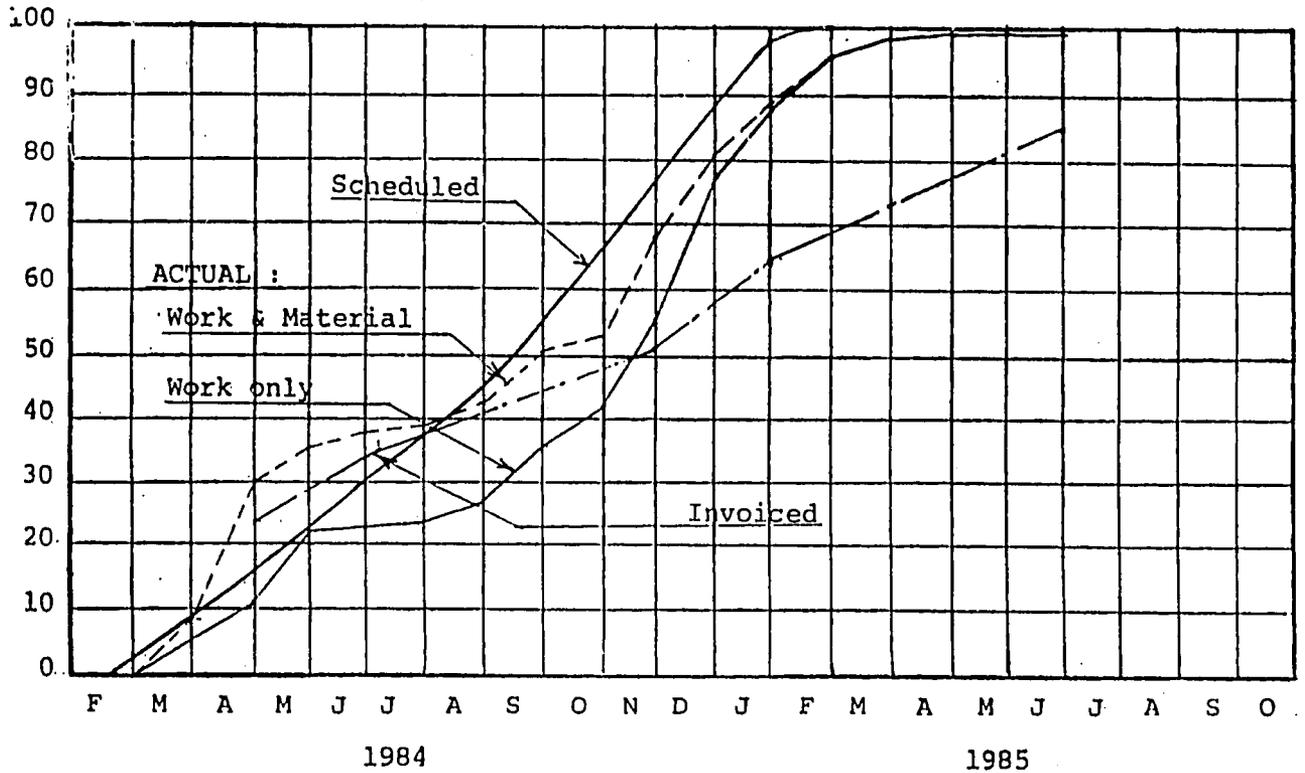
Scheduled Completion: 28.02.85 (371

Elapsed Time : - days 100%

PROJECT SUBSTANTIALLY COMPLETED

HANDED OVER TO BADC

CONSTRUCTION PROGRESS



	<u>This Period</u>	<u>To Date</u>
A. Site Development	-	100%
B. Warehouse	-	100%
C. Ancillary Buildings	-	100%
D. Water Supply, Sanitary, Plumbing	-	99%
E. Electrical	-	95%

43

Activities

This project is substantially completed. The permanent power connection and minor timer for pump plus 3 punch list items remain outstanding.

Action Required

BADC: To obtain permanent power connection.

Work Schedule Next Month

Obtain the permanent power connection

Claims : None

Financial

<u>Invoice No.</u>	<u>Period Ending</u>	<u>Amount Invoice(Tk)</u>	<u>Payment(Tk)</u>	<u>USAID Voucher No.</u>
H3-01	Material Prepayment	12,72,681.70	12,72,681.70	1248
H3-02	16.06.84	7,16,085.93	7,16,085.93	1597
H3-03	26.11.84	9,11,814.00	9,11,814.00	416
H3-04	17.01.85	7,00,681.64	7,00,681.64	
H3-05	25.02.85	5,72,389.03	5,72,389.03	
H3-06	28.02.85	6,25,425.23	6,25,425.23	
			<u>Tk. 47,99,077.55</u>	
			83.8%	

Variations (Change Orders, Overruns, Underruns)

A draft of final change Order for the final payment was prepared by the Engineer. It is held up because the cost of the permanent power connection remains unknown.

INVITATION NO. 7 : I4-CHANDPUR

CONTRACTOR : Fazle Azim Engineers Ltd.

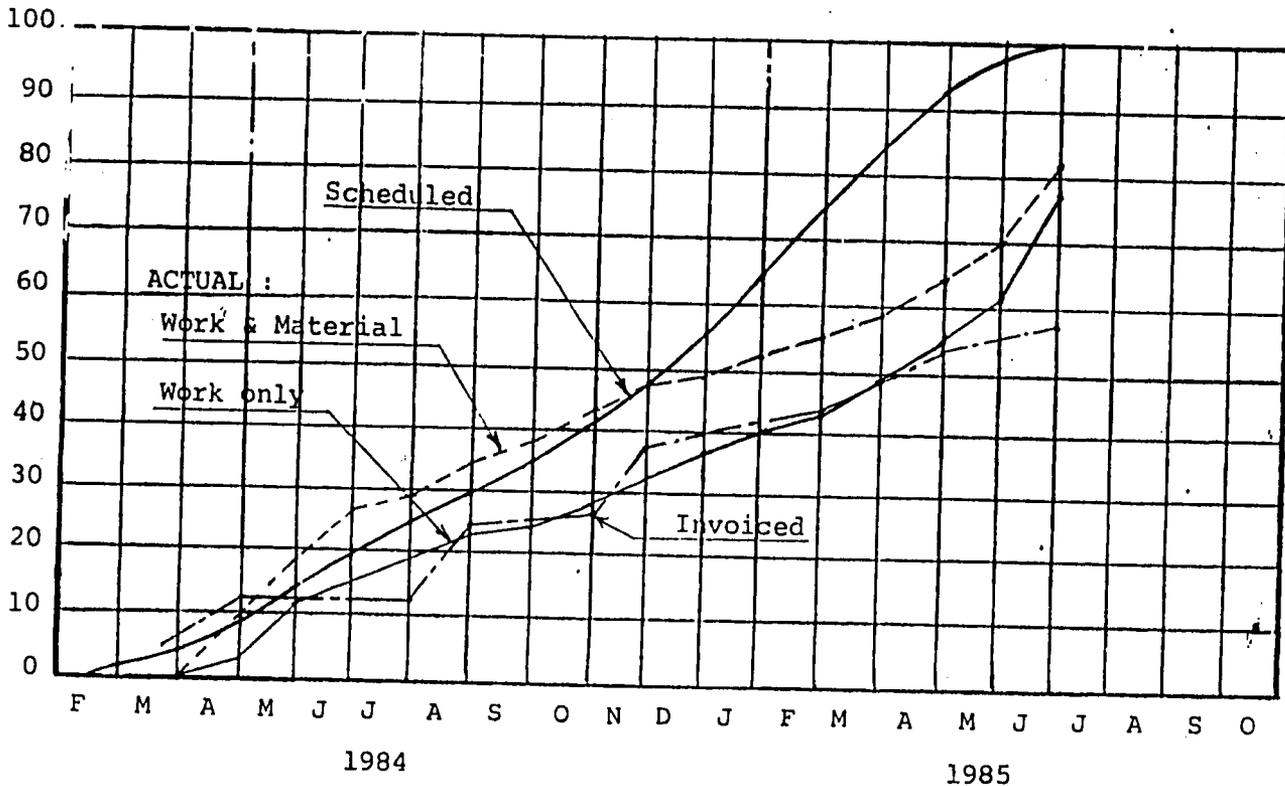
Total Contract Price : Tk.1,70,67,822.35
 Change Order/Directives : 17,03,243.50
 Revised Contract Price. : 1,87,71,065.65
 L/Com No. : 388-002409
 Date of L/Com. : 31.01.84
 Amount of L/Com. : (\$686,398.00)

Date of Contract : 16.01.84
 Site Handed Over : 31.01.84
 Notice To Proceed : 23.02.84
 Scheduled Completion: 30.06.85 (494)
 Elapsed Time : 494 days 100 %

L/Com Amendment No.1 : 01.04.84
 L/Com. Amendment No.2 : 03.02.85
 Performance Guarantee : Janata MCH/002/84
 Tk.17,10,000 .
 Extended Expiry : 30.9.85
 CAR/PL Insurance : DAC/CAR/P-10/84
 Endorsement : DAC/CAR/E-19/12/84
 Expiry : 30.06.85

%Completion			
Scheduled		Actual	
This Period	To Date	This Period	To Date
2%	100%	11%	81%
	Work	: 16%	77%
	Material	: -5%	4%

CONSTRUCTION PROGRESS



	<u>This Period</u>	<u>To Date</u>
A Site Development	8%	76%
B Warehouse	23%	86%
C. Ancillary Buildings	16%	84%
D. Water Supply, Sanitary, Plumbing	9%	28%
E. Electrical	9%	25%
F. Change Orders	19%	87%

35

Activities

The concrete pavement from near the bridge to the godown and on the east and west side of the godown was cast. Brick pavement of the river is in process. Aprons on the east and west side of the godown were done. Work on the public toilet continues. The bridge over the canal was cast and is completed except for the railing. At the godown the second half of the roof was cast and under the already cast roof the floor slab was placed to 50% of completion.

The plastering of the ancillary buildings was completed, doors and window frames were set. Floor casting and lime terrazing continues. The stair railing is being set. Work on sanitary and electrical items is in process.

A test well for the deep tube well was drilled with difficulties to 312 ft. & water sample was rejected by Public Health as too high in iron. The contractor is preparing a proposal to hook up to the public water supply since drilling a well to 700-800 ft seems to be very risky.

Action Required

- BADC: . Take action on Change Order I4-05 (Quantity adjustment) and I4-06 (Closure dike).
- . Obtain estimate for permanent power connection from PDB.

Work Scheduled Next Month

Finish complete access to the godown and the godown itself. Complete the ancillary buildings.

Claims : None

Financial

<u>Invoice No.</u>	<u>Period Ending</u>	<u>Amount Invoice(Tk)</u>	<u>Payment</u>	<u>USAID Voucher No.</u>
-	Mobilization Advance	8,53,391.12	8,53,391.12	0997
I4-01	Material Prepayment	14,06,400.00	14,06,400.00	1249
I4-02	Material Prepayment	6,26,500.00	-	1/ 1753
I4-03	12.08.84	24,68,664.86	24,68,664.86	1855
I4-04	22.10.84	18,19,286.50	18,19,286.50	0209
I4-05	05.12.84	7,30,793.84	7,30,793.84	2001
I4-06	17.02.85	9,60,742.67	9,60,742.67	-
I4-07	17.04.85	12,80,303.78	12,80,303.78	1341
I4-08	29.05.85	12,61,053.59	12,61,053.59	
			Tk. 107,80,636.36	
			57.4%	

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)

Original Contract Price	Tk.	1,70,67,822.35
Change Orders I4-01 to 04		17,03,243.50
Change Order I4-05, Adjustment of Quantities		4,75,290.00
Change Order I4-06, Proposed closure dike at ditch & fill in front of R2 building		2,30,600.00
		<hr/>
Now total estimated contract Price	Tk.	1,94,76,955.85

CONSOLIDATED MATERIALS TESTING REPORT

Project : Fertilizer Warehouses Phase III

For the month June 1985

Site : Chandpur

Material/Test	Spec. No.	No. of Tests	No. Approved	No. Dis-Approved	Remarks/Requirements
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. Mortar Sand	4A.03	1	1	0	F.M. 1.8 to 2.8
D. Field Density Tests: Select Fill	2E.01	45	45	90% and 95% MDD	

No. of test at
3 days 7 days 14 days 28 days

E. Concrete: Compressive Strength Test	3A.03 3A.05	15	20	61	
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Average 28 day Strength of Concrete:

1. Godown floor slab - 4158 psi (Av. of 12 cylinders)
2. R1 roof slab - 3760 psi (Av. of 3 cylinders)
3. Godown Apron - 3854 psi (Av. of 8 cylinders)
4. R2 Perapet - 3517 psi (Av. of 6 cylinders)
5. Bridge Abut/Pier cap - 3765 psi (Av. of 9 cylinders)

30 June 1985

INVITATION NO. 9 : 05-PARBATIPUR

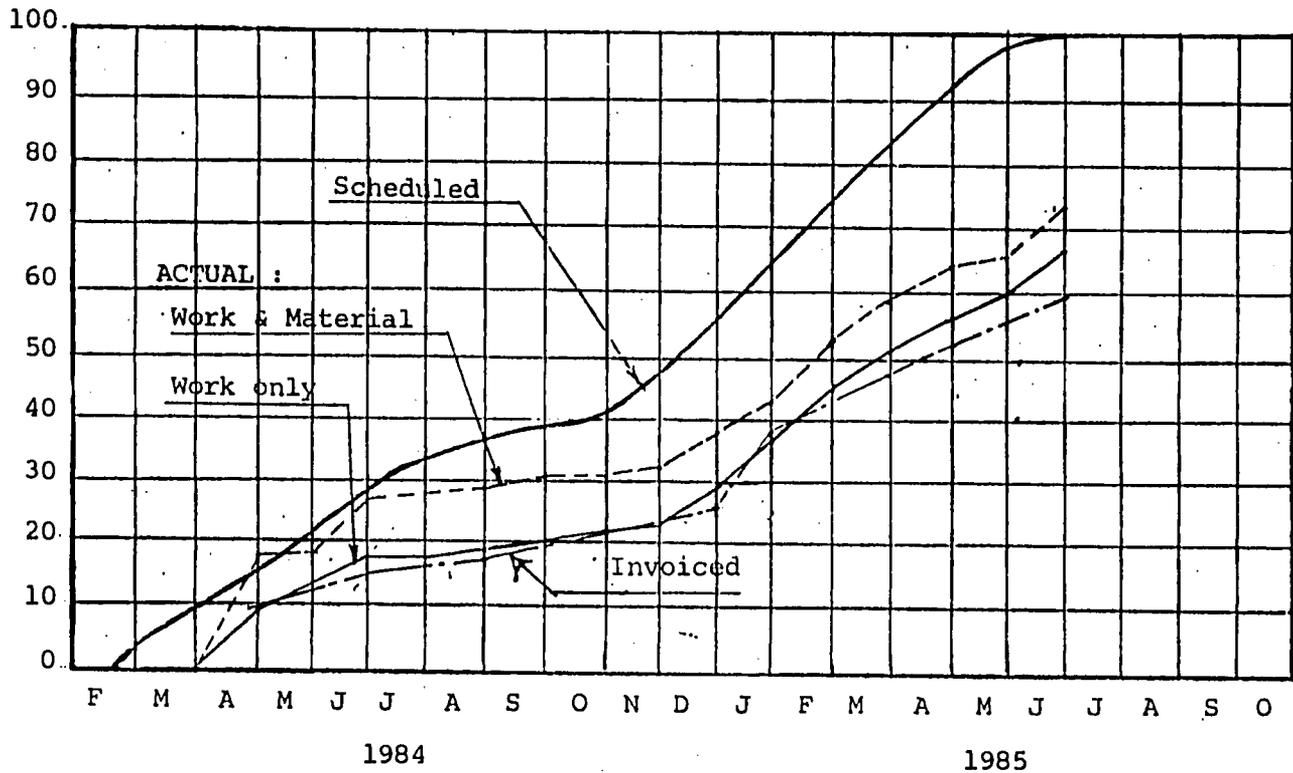
CONTRACTOR : The Elite Engineers Ltd.
 Total Contract Price : Tk.1,70,02,196.40
 Change Order/Directives : - 500.00
 Revised Contract Price. : Tk.1,70,01,696.40
 L/Com No. : 388-002411
 Date of L/Com. : 31.01.84
 Amount of L/Com. : Tk.1,70,02,196.40
 (\$683,759.00)

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 : 494 days . 100%

L/Com. Amendment No.1 :
 L/Com. Amendment No.2 : 06.02.85
 Performance Guarantee : LG.84/42 BCCI
 Tk.17,00,220
 Extended Expiry : 08.07.85
 CAR/PL Insurance : DAC/CAR/P-11/5/84
 Endorsement : DAC/CAR/E-01/1/85
 Expiry : 30.06.85

%Completion			
Scheduled		Actual	
This Period	To Date	This Period	To Date
2%	100%	7%	73%
Work	:	7%	67%
Material	:	-	6%

CONSTRUCTION PROGRESS



	<u>This Period</u>	<u>To Date</u>
A. Site Development	2%	81%
B. Warehouse	17%	61%
C. Ancillary Buildings	4%	75%
D. Water Supply, Sanitary, Plumbing	2%	21%
E. Electrical	1%	9%

Activities

Some brick work of boundary walls type A and B was done but no concrete pavement was cast.

At the godown 31% of the roof (2½ bays of 8) were cast completing the first 50% of the roof. Some columns, walls and canopies were done. 27% of the godown brick floor was laid. The godown roof and floor seem to have been the only large items to be done this month. Only 4% of work was done at the ancillary building. Some concrete floor slab was cast, a few brick walls were laid, 13% of the plastering was done. No electrical and hardly any sanitary items were installed. Due to the godown slab pours the work done this month amounted 7% and work completed increased to 67%.

The contractor had a labor dispute (about stealing) which stopped all work on the 14 & 15.6.85. No work was done from the 15 to the 25 because of the Eid holiday. On the 26.6.85 nobody had returned for work. Many supervisors and labourers did not return until the end of the month.

All progress remains slow. The contractor's inability to manage the project properly continues.

Action Required

BADC: Direct the Coal Directorate to comply with the agreement reached with them and let contractor construct meter gauge siding.

- To obtain BR's approval for manufacturer's drawings for mixed gauge turnout.
- To obtain estimate for permanent power connection from PDB.

Work Scheduled For Next Month

Finish the access road. Cast the second part of the godown roof, roof vent, lay brick flooring. At the ancillary buildings do the lime terrazing, finish plastering install door and window frames, start patent flooring, install sanitary and water lines, start electrical work. Begin deep tube well drilling.

Claims: Claim for time extension made in an Elite letter to BADC. Rejected by A&W letter 3314 of 24.6.85 because it is undocumented and lacks merit.

Financial

<u>Invoice No.</u>	<u>Period Ending</u>	<u>Amount Invoice(Tk.)</u>	<u>Payment(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	1271
05-03	31.07.84	16,45,747.00	16,45,071.71	1875
05-04	22.10.84	1,78,402.39	1,78,402.39	4.7
05-05	15.12.84	12,94,979.50	12,94,979.50	0518
05-06	20.01.85	6,94,771.00	6,94,771.00	-
05-07	20.02.85	13,24,105.92	13,24,105.92	-
05-08	08.04.85	9,39,992.85	9,39,992.85	1262
05-09	08.06.85	13,36,094.66	<u>13,36,094.66</u>	
			101,26,163.03	
			(59.6%)	

Variations(Change Orders, Overrun, Underruns)

Unchanged from last month.

CONSOLIDATED MATERIALS TESTING REPORT

Project : Fertilizer Warehouses Phase III

For the month June 1985

Site : Parbatipur

Material/Test	Spec. No.	No. of Tests.	No. Approved	No. Dis-Approved	Remarks/Requirement
A. Select Fill	2E.01-a	1	1	0	F.M. > 1.5
B. Concrete Sand	3A.02-b.1	1	1	0	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	1	1	0	
E. Field Density Tests: Select Fill	2E.01	13	11	2	90% & 95% MDD

	Spec. No.	<u>No. of test at</u>			
		<u>3 days</u>	<u>7 days</u>	<u>14 days</u>	<u>28 days</u>
F. Concrete: Compressive Strength Test	3A.03 3A.05	3	11	21	27

Average 28 day Strength of Concrete:

1. Road pavement - 4345 psi (Av. of 15 cylinders)
2. Godown roof slab - 3543 psi (Av. of 6 cylinders)
3. Godown canopy - 3512 psi (Av. of 3 cylinders)
4. Boundary wall Type B - 3377 psi (Av. of 3 cylinders)

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INVITATION NO.8 : L4-DOMAR

CONTRACTOR : M.S. Khan & Heirs Ltd.
Total Contract Price : Tk. 74,99,255.00
Change Orders : Tk.
Revised Contract Price : Tk. 74,99,255.00
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

Date of Contract : 12.01.84
Site Handed Over : 25.01.84
Notice To Proceed : 02.02.84
Date Terminated : 04.03.84

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

CONTRACT CLOSED OUT

FINAL PAYMENT CLAIM SETTLEMENT

AID Voucher No. AID-0544

Tk. 5,83,083.62 (\$22,479.29)

4/8

II. CONSULTANT'S ACTIVITIES

A. FINANCIAL - PROGRESS SCHEDULE

FINANCIAL

Total Procurement Budget	- \$ 2,117,343
Special Project Activity	- \$ 142,722
Total Contract Budget	- \$ 2,260,065

Estimated Expenditures To-Date	- \$ 1,820,922
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% Expenditure to Total Contract Budget	- 80.6%
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PROGRESS

Elapsed Contract Time	(30-06-85)	- 934 days
Remaining Contract Time	(30-06-85)	- -
% Elapsed Time	Amendment No.1	- 100%
Remaining Contract Time	Amendment No.2	- 184 days
	(31-12-85)	
% Elapsed Time #2		- 83.5%

B. ADMINISTRATION

1. 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 (Amendment No.1 dated 28.03.84) - 30 June 1985(30.74) mos.
- (Amendment No.2 dated 01.06.85) - 31 Dec. 1985(36.74) mos.
- . Months Completed - 30.74

2. Expatriate Staff

		<u>Man-Months</u>	
		<u>Allocated*</u>	<u>Utilized</u>
George A. Pecht	- Project Manager	31	26.50
Klaus Thieme	- Chief Construction Engineer	26	23.96
-	- Foundation Engineer	11.2	11.17
-	- Structural Engineer	5 *	4.91
Y.O. Kim	- Project Engineer	18	15.24

3. Contract Administration

- . USAID extending Project Assistance Completion Date (PACD)
- to July 28, 1986 (AID Letter No.671, 03.05.84)

4. Meetings

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

* Allocated as per Amendment No.2 dated 01.06.85

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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	33	29.540
S&M Engineer	33.5	32.2728
Structural Engineer	9	9.0388
Architect	4	3.8389
Electrical Engineer	10	10.1287
Railway Engineer	31	27.9089
Office Engineer	27	27.0136
Land Procurement Officer	27	27.1366
Surveyor	26.5	20.3879
Instrument Man	19	18.5664
Rodman	13	12.8222
Chainman	28	27.9352
Draftsman	79.5	72.9070
Laboratory Technician	117	104.8182
Laboratory Assistant	92	72.5798
Estimator	45	37.3271
Senior Field Engineer	93	78.6447
Field Engineer	77	73.4992
Inspectors	121	122.2535
Drivers	95	75.0118
Messenger	-	-
Peon	-	-
Guard	-	-
Clerk	-	-
Typist	-	-

5.2 Administrative Personnel

Administrative Manager	33.5	29.2013
Senior Accountant	34	30.3548
Assistant Accountant	32	28.5331
Secretary	34	30.3164
Printer	30	28.7291
Typist	72	66.9890
Clerk	48	43.9101
Drivers	116	106.4136
Messenger	31	27.8160
Peon	93	83.2815
Guard	159	140.7518
Radio Operator	-	-
Office Superintendent/Asst. Accountant	19	17.3478

* Allocated as per Amendment No.2 dated 01.06.85

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II. Consultant's Activities

Project Expenditures
(Estimated Project Cost Incurred)

<u>Item</u>	<u>Budget Amendment #2</u>	<u>This Month</u>	<u>Cumulative</u>
Services in Bangladesh	\$ 858,524	\$ 25,180	\$ 775,320
Service in Home Office	191,922	621	146,436
International Travel, etc.	71,438	-	33,736
Housing Allowance, Per Diem etc.	99,294	2,088	85,788
Logistic Cost	166,633	2,835	129,223
Supporting Staff	359,626	11,296	314,458
Misc. Direct Costs	164,446	92	17,026
Fixed Fee	205,460	-	205,460
	<u>\$2,117,343</u>	<u>\$42,112</u>	<u>\$1,707,447</u>
Percent of Estimated Budget		1.99%	80.64%
Percent Contract Time (To 30.06.85)			100%
Special Project Activity	\$ 142,722	\$ 363	\$ 113,475
	<u>\$2,260,065</u>	<u>\$42,475</u>	<u>\$1,820,922</u>
	=====	=====	=====

Billing and Payment

<u>Invoice</u>	<u>Period Ending</u>	<u>Billing</u>	<u>Payment</u>
01-26	30 April 1985	\$ 1,674,368.99	\$ 1,657,818.81
27	31 May 1985	\$ 45,449.01	Under Process

Reports

Monthly Progress Report No.30 for May 1985 submitted by
letter /3254, 04 June 1985.

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II. Consultant's Activities

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.

Testing of materials (bricks, 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 periodic 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 contractor; 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 terms of the Conditions of Contract and Technical Specifications.
- Issued field message giving directions to contractors as required.
- Follow up on compliance of directive issued.
- Prepare instruction for Contractor's and Engineer's personnel guidance in control of work and materials.
- Make Contractors aware of requirements for timely procurement of materials and sequence of operation to accelerate the construction work.

II. Consultant's Activities

- Prepare and submit Monthly Progress Report.
- Held scheduled meetings with each of Contractors and Consultant's key personnel.
- Continue site inspection, construction surveillance, and filing reports for action by key staff members.
- Continue monitoring availability of construction materials.
- Spot check materials and work approved by field staff.
- Check shop drawings submitted.
- Monitor contractor's progress against their construction schedule.
- Review contractor's work schedule.
- Process contractor's invoices for payments.
- Items requiring follow-up:
 - . Monitor field testing procedures and test results
 - . Monitor activity and performance of field staff
 - . Monitor compliance to field message issued by field staff

 - . BADC's action in obtaining incoming power line to sites
- Assist BADC in reviewing BR's estimates for railway siding work.
- Issuing substantial completion certificate, preparing punch list, and assisting in handing over possession of sites to BADC (Storage).
- Reminder sent to all contractors who will not substantially complete work by 30 June to extend their performance guarantee and insurances. BADC to take action against Contractors not extending.
- BADC's decision on income tax payments by Contractor
- BADC's action on Asst. Controller (Accounts) letter to Contractor's surety to extend performance guarantee to December 1985 and period of claim to June 1986.