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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**

PROGRESS REPORT NO. 1

MAY 1984



AMMANN & WHITNEY
CONSULTING ENGINEERS
NEW YORK

in association with



WORLDWIDE ENGINEERS LTD.
ARCHITECT-ENGINEERS
DHAKA



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AMMANN & WHITNEY
CONSULTING ENGINEERS

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

WAREHOUSES PHASE III

Project Director, BADC
USAID Construction Project
20, Outer Circular Road
Rajarbagh, Dhaka-17

724-4.1.1/1935

07 June 1984

Subject : Monthly Report No.18
- May 1984

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 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, PO, AID/Dhaka w/encl.(6)
File 724-1.4.2 w/encl.

AMMANN & WHITNEY
Consulting Engineer

FERTILIZER WAREHOUSES - PHASE III

Monthly Progress Report No. 18
Month of May 1984

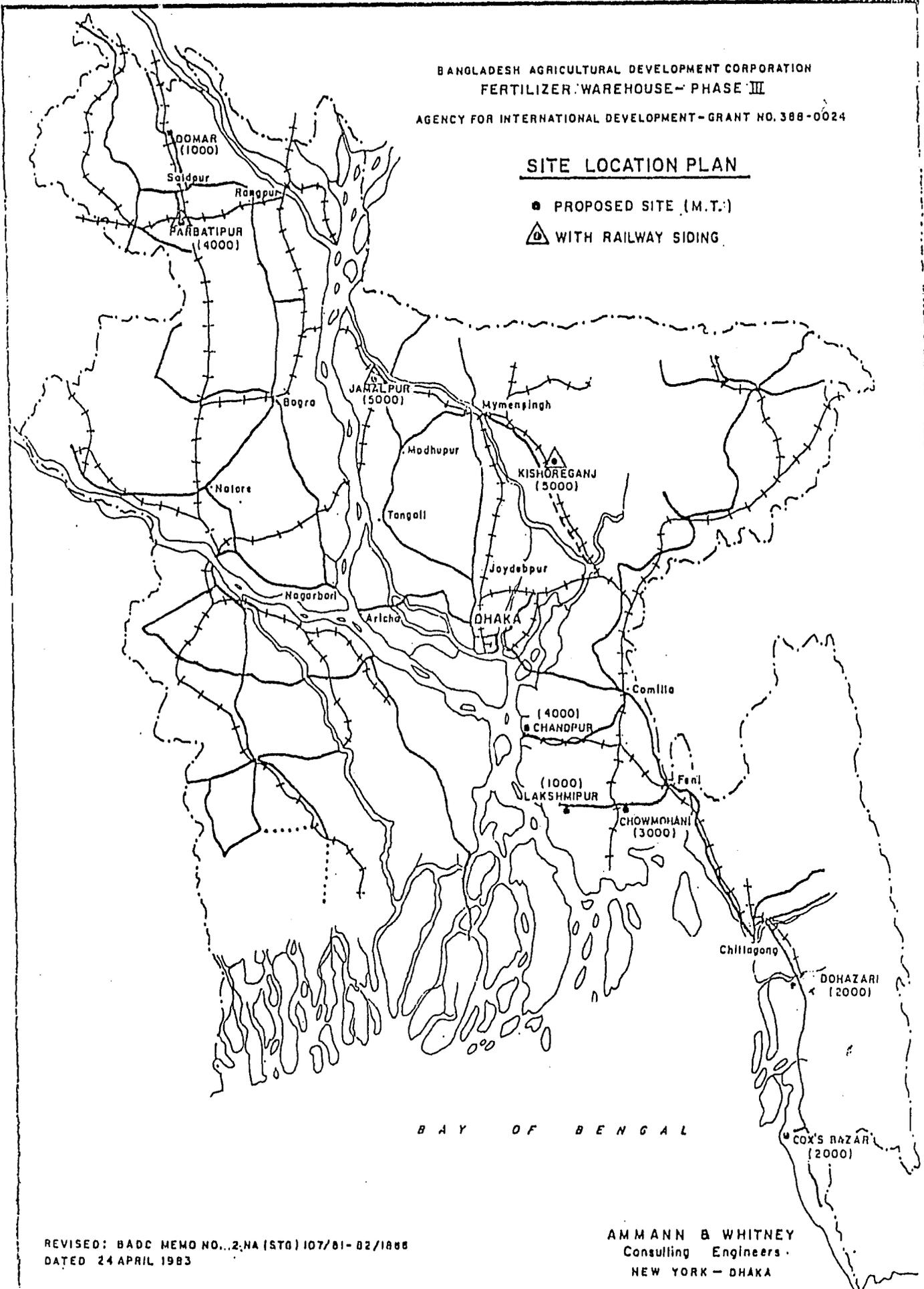
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BANGLADESH AGRICULTURAL DEVELOPMENT CORPORATION
FERTILIZER WAREHOUSE - PHASE III
AGENCY FOR INTERNATIONAL DEVELOPMENT - GRANT NO. 388-0024

SITE LOCATION PLAN

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



REVISED: BADC MEMO NO. 2/NA (STG) 107/81-82/1888
DATED 24 APRIL 1983

AMMANN & WHITNEY
Consulting Engineers
NEW YORK - DHAKA

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' (26,000 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)
L4 DOMAR *	1000	RANGPUR	60'x 90' (5,400 sft)
O5T PARBATIPUR	4000	DINAJPUR	90'x 240' (21,600 sft)
TOTAL	27,000 M.T.		144,900 ^f sft

* Contract Cancelled by BADC

I. CONTRACTORS' ACTIVITIES

CONSTRUCTION PHASE

1. Summary of Contractors' Activities

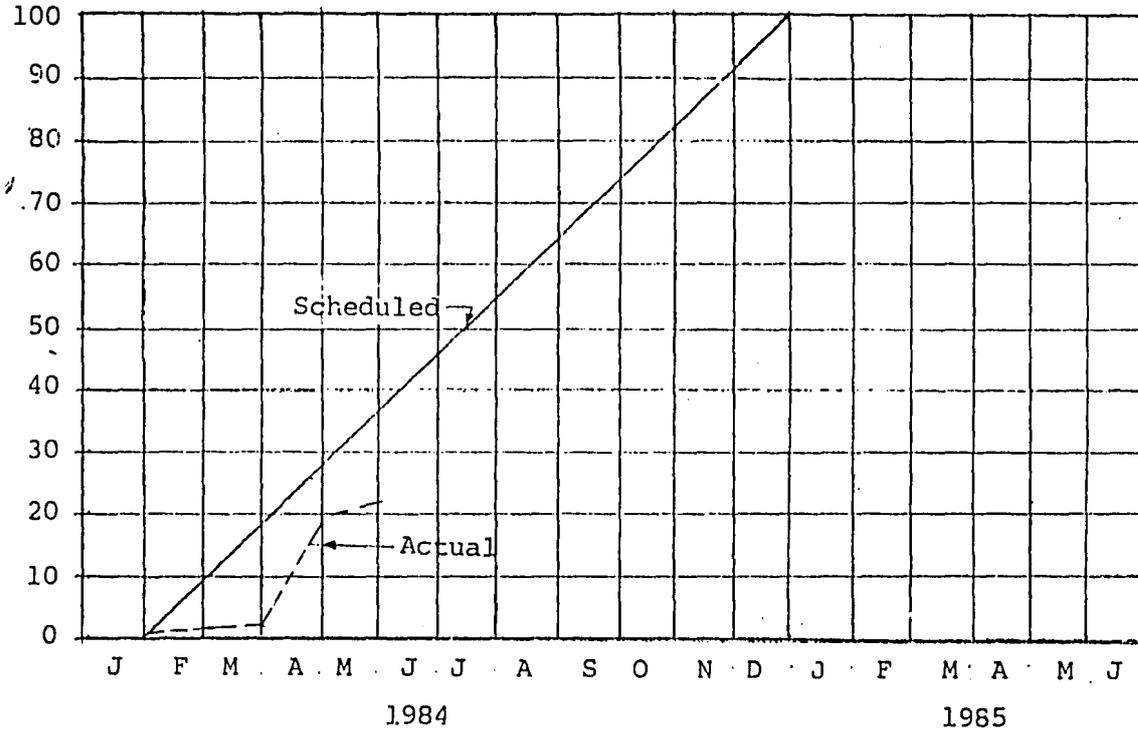
- . Heavy rains during May had an effect on the progress of the work. For those contractors placing embankment fill material the rains assisted in moistening the material so that compaction with equipment could be readily attained. The rains did not help contractors dependent on manual laborers for compaction since the daily laborers usually do not show up on these days.
- . Two of the sites, Cox's Bazar and Lakshmipur, are ahead of schedule.
- . Two sites, Dohazari and Chandpur, although lagging slightly behind schedule, can with exerted effort get back on schedule.
- . Two sites, Kishoreganj and Jamalpur, have management problems which reflects in no reportable progress for the month.
- . At Chowmuhani, a site requiring preloading, the Contractor is presently 40 days behind schedule. The Engineer estimates that the Contractor will fall further behind schedule for total of 70 days. Since preloading and surcharge period are on critical path, the Contractor can only make up some of the time by accelerating work on construction of the godown.
- . The Engineer informed BADC that in their opinion the Contractor, The Elite Engineers Ltd., awarded the contract at Parbatipur cannot at their present level of effort complete the construction work within the contract time period.
- . The Engineer has scheduled meetings in early June with BADC, USAID and the contractors to review progress, resolve issues, and take steps necessary to assist the contractors to expedite the Work.

Contractor's Activities

CONSTRUCTION
CONTRACT AND FINANCIAL SUMMARY

<u>Invitation No.</u>	<u>Site</u>	<u>Contractor</u>	<u>Contract Amount (Tks)</u>	<u>Last Invoice No.</u>	<u>Accumulated Amount (Tk)</u>	<u>Accumulated Payments (Tk)</u>
1	B1-Kishoreganj	National Construction & Consult Ltd.	1,98,40,012.82			
2	C3-Jamalpur	Mostafa Brothers (Pvt) Ltd.	1,76,94,451.01	C3-01	22,12,418.55	22,12,418.55
3	F1-Dohazari	Eastern Engineers Consortium Ltd.	1,55,48,978.95	F1-01	27,15,000.00	27,15,000.00
4	F3-Cox's Bazar	Builders The Best Ltd.	99,64,470.85			
5	H2-Chowmuhani	Technocon Limited	1,41,20,342.60			
6	H3-Lakshmipur	Technocon Limited	55,91,275.35	H3-01	12,72,681.70	12,72,681.70
7	I4-Chandpur	Fazle Azim Engineers Ltd.	1,70,67,822.35	I4-01	22,59,791.12	22,59,791.12
9	O5-Parbatipur	Elite Engineers Ltd.	1,70,02,196.40	O5-01	14,96,000.00	14,96,000.00
		Total	Tk. 11,68,29,550.33		Tk. 99,55,891.37	99,55,891.37
		(24.87)	(\$ 4,697,609.58)		% of Total Contract Amount	8.52%
8	L4-Domar	M.S. Khan & Heirs Ltd.	74,99,255.58		Contract Terminated	

CONSTRUCTION PROGRESS - ALL SITES



																			Weighted Percent	Project Complt.
Kishcreganj	8	18	27	36	45	54	63	72	82	91	100								16.97	3.4
	0	1	20	20																
Jamalpur	8	18	27	36	45	54	63	72	82	91	100								15.15	2.9
	0	2	18	19																
Dohazari	8	18	27	36	45	54	63	72	82	91	100								13.31	3.2
	0	1	21	24																
Cox's Bazar	2	12	22	32	41	51	61	71	80	90	100								8.53	3.2
	0	1	27	37																
Chowmuhani	2	12	22	32	41	51	61	71	80	90	100								12.09	2.2
	0	1	13	18																
Lakshmipur	2	12	22	32	41	51	61	71	80	90	100								4.79	1.7
	0	8	30	36																
Chandpur	2	12	22	32	41	51	61	71	80	90	100								14.61	2.6
	0	1	11	18																
Parbatipur	2	12	22	32	41	51	61	71	80	90	100								14.55	2.5
	0	1	17	17																

Total 21.7%
Last Month 18.3%

^

31 May, 1984

INVITATION NO.1 : B1-KISHOREGANJ

CONTRACTOR : National Construction & Consult Ltd.

Total Contract Price : Tk. 1,98,40,012.82

Change Order : Tk.

Revised Contract Price : Tk. 1,98,40,012.82

Payments To Date : Tk.

Retention To Date : Tk.

L/Com. No. : 388-002403

Date of L/Com. : 31.01.84

Issue Date of L/Com. : 02.02.84

Amount of L/Com. : Tk. 1,98,40,012.82
(\$797,885.00)

L/Com. Amendment No.1 : 13.02.84

Performance Guarantee : BCCI LG 84/75
Tk.19,84,002CAR/PL Insurance : DAC/CAR/P-09/4/84
30.04.84Date of Contract : 16.01.84
Site Handed Over : 29.01.84
Notice To Proceed: 02.02.84
Scheduled Completion: 31.12.84 (333)
Elapsed Time: 120 days 36.0%

% Completion			
Scheduled		Actual	
This Period	To Date	This Period	To Date
9 %	36 %	0 %	20 %
	Work	: 3%	16%
	Material	: (3%)	4%

1.0 Site Key Personnel

Engineer	: Senior Field Engineer	- A.O. Khan
	Field Engineer	- A.H. Nazrul Islam
	Inspector	- Zulfikar Ali (22.05)
	Asst. Technician	- Kamrul Hossain
Contractor	: Site Engineer	- Ataur Rahman
	Site Manager	- Md. Emadul Hoque
	SAE	- Mizanur Rahman
	Foreman	- Abdul Zabbar
		- Mostafa Kamal

2.0 Contractor's Activities

	<u>This Period</u>	<u>To Date</u>
A. Site Development	-	43%
A1 Mobilization and Demobilization	-	86%
. R.T. roller on site and in operation		
. Adequate water supply arrangement now provided		
. Engineer's field office 95% complete.		
Target completion by 10 June.		
A2 Preparation of Site	-	99%
A4 Excavation	-	95%
A6 Filling with Imported Material (Select Fill)	-	98%
. Backfilling R3 completed and R2 to one foot below G.L.		
. Godown area filled to elevation 33. Six inches to go plus surcharge.		

A10 Boundary Wall - Type A	-	35%
. 704 ft. to height of 5 ft. on south and southeast side.		
. 474 ft. of wall on west to 10 inch section.		
A21 Surcharge For Preloading	0%	0%
C. Ancillary Buildings	-	1.5%
C1 Brick Flat Soling	-	13%
R3 (603 sft)		
C2 Plain Concrete	-	14%
R3 (201 cft)		
C3 Brickwork in Foundation to P.L.	-	11%
R3 (450 cft)		
D. Water Supply, Sanitary and Plumbing	-	5%
D7 Inspection Pit. 3 completed and accepted	-	10%
D8 Septic Tank. One Type B completed except cover	-	30%
D9 Soak Well. One complete to 15 ft. depth.	-	30%

2.1 Approved Materials On-Site

Portland Cement	- 40 ton
Reinforcing Steel, Deformed	- -
Bricks, 1st Class	-
Boulders	- 8,000 cft.
Sand, Coarse	- 12,000 cft.
Sand, Fine (For Filling)	- 120,000 cft incl. ordinary fill

2.2 Major Equipment On-Site

- 1- Concrete Mixer
- 2- Water Pump
- 1- R.T. Roller
- 1- Farm Tractor

3.0 Problems and Delays

- . Railway land has not been officially handed over to BADC. Require railway estate office to demarcate railway right-of-way in the field and have the Engineer's surveyors confirm location.
- . Abandoned railway siding track to be removed by BR.
- . Engineer's Field Office scheduled for completion by 17 March is only 95% complete.

4.0 Action Required

- BADC : . Finalize location of right-of-way with BR (1610,15.04)
- . Follow-up with BR for removal of abandoned railroad ties and track.
 - . Approve insurance policy (1752, 12.05)
 - . Follow-up on obtaining incoming power line.
 - . Action on claim for time extension (1840, 21.05)
- Contractor : . Improve site management and have them participate in the planning.
- . Submit monthly construction photographs (1871, 24.05)
 - . Submit monthly progress report (1832, 20.05)
 - . Update construction schedule
 - . Complete Engineer's Field Office
 - . Submit concrete mix design.

5.0 Claims

Contractor claimed for delay in work due to heavy rainfall and transport strike. (NCCL-83-84/AK26,22.05.84)

6.0 Work Scheduled Next Month

<u>Event</u>	<u>Time Estimate</u>	<u>Scheduled</u>		<u>Actual</u>	
		<u>Start</u>	<u>Finish</u>	<u>Start</u>	<u>Finish</u>
Filling (Godown)	90	03.05	31.05		
Placing Surcharge	8	01.06	08.06		
Surcharge Period	60	09.06	07.08		
Boundary Wall	60	01.04	30.05		
	45	01.08	14.09		
Ancillary Buildings					
R1: Fdn. Excavation	15	05.06	19.06		
C.C. Foundation	10	21.06	30.06		
R2: Fdn. Excavation	-	-	31.05		
C.C. Foundation	10	05.06	14.06		
Brickwork to P.L.	14	15.06	28.06		
Conc.Ftg.& Col.to P.L.	10	28.06	06.07		
R3: Brickwork to P.L.	15	25.05	09.06		
Brickwork to Lintel	10	25.06	09.07		

7.0 Shop Drawings

<u>Drawing No.</u>	<u>Date</u>	<u>Title</u>	<u>Action</u>
KS-	20.04	Bar Schedule EFO	B
KR1/01	27.04	Rebar Detail Footing, Column, Lintel & Sunshade	A
KR/02-1	02.05	Reinforcement of Staircase R1, R2 and R3	C

7.0 Shop Drawings - cont'd.

<u>Drawing No.</u>	<u>Date</u>	<u>Title</u>	<u>Action</u>
KR/02-2	02.05	Bar Bending for R1,R2 and R3	C
KR-03	03.05	Septic Tank,Soak Well, Inspection Pit Detail	A
KR3-04	02.05	Reinforcement for lintel,sunshade	B
KR1-05-1	06.05	Reinf.of Floor & Roof Slab & Detail of Beam	C
KR1-05-L	06.05	-do-	C
KR2-06 R1	02.06	Reinf. Plan of lintel,sunshade & footing	A
KR2-08-1	15.05	Reinf. Plan of Floor & Roof Slab & Beam Details	C
KR2-08-2	15.05	-do-	C
KR3-09-1	19.05	-do-	C
KR3-09-2	19.05	-do-	C
KR-10	24.05	Reinforcement Details of Tally Office and Public Toilet	-
KR-11	26.05	Reinf Details of Chimney R1,R2 & R3	-
KR-12	30.05	Reinforcement Details of Guard House	-
KR-13	27.05	Reinforcement Details of Pump House	-

8.0 Financial

Nil

9.0 General

- . Work on ancillary building and boundary wall suspended for lack of specified bricks and skilled masons.
- . The Contractor submitted a sequence of construction for surcharge preloading and its removal and disposal. The sequence is under review by the Engineer
- . Rejected 36 bags of cement which were being repackaged by the contractor's personnel.
- . Assisted contractor to find new source for bricks. All bricks on site (28-31 May) rejected.

CONSOLIDATED MATERIALS TESTING REPORT

Project: Fertilizer Warehouses Phase III

For the month May 1984

Site : Kishoreganj

Material/Test	Spec. No.	No. of Tests	No. Approved	No. Dis-Approved	Remarks/Requirement
A. Select Fill	2E.01-a	46	34	12	Requires F.M. greater than 1.5 and less than 5% passing sieve No.200
B. Ordinary Fill	2E.0A-b	12	7	5	Max. 20% passing sieve No.200
C. Mortar Sand	4A.03	1	1	0	
D. Bricks: Frogmark:FEL RBC'84	4A.02	2	2	0	Requires sorting at site
E. Cement	3A.02-a	2	2	0	Brand name: TUNGYANG ABC
F. Field Density Tests: Select Fill	2E.01	64	55	9	90% and 95% MDD
<u>No. of test at</u> <u>7 days 14 days 28 days</u>					
G. Concrete: Compressive Strength Test	3A.03 3A.05	10	10	11	Min. required strength is 3000 PSI at 28 days

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National Construction & Consult Ltd.

Construction Engineers & Reinforced Concrete Specialists, Architects & Consultants

Office :

Plot No. 12A, Block No. CWN(A)
North Avenue, Gulshan Model Town, Dhaka.
Phone : 605729

Branch Office :

166, Sher-e-Bangla Road, Khulna.
Phone : 24935

31st May 1984

INVITATION NO. 1 BI-KISHOREGONJ

Progress Report

CONTRACTOR	: National Construction & Consult Ltd.	Date of Contract	: 16.01.84
Total contract price	: Tk.1,98,40,012.82	Site Handed over	: 29.01.84
Change order	: Tk.	Notice To Proceed	: 22.02.84
Revised Contract price	: Tk.1,98,40,012.82	Scheduled completion:	31.12.84 (333)
Payments To Date	:	Elapsed Time :	<u>120 days</u> 26% 37%
Retention To Date	:		
L/Com. No.	: 388-002403		
Date of L/Com	: 31.01.84		
Issue Date of L/Com	: Tk.1,98,40,012.82 (S797,885.00)		
Performance Guarantee	: BCCI LG 84/75 Tk. 19,84,002 DAC/CAR/COV-44/4/84		

		<u>% completion</u>	
	Schedule	Actual	
	<u>This Period</u>	<u>This Period</u>	<u>To Date</u>
Work	:		21%
Material	:		16%
			5%

1.0 Site Personnel

Engineer	: Senior Field Engineer	- A.O. Khan
	: Field Engineer	- A.H. Nazrul Islam
	: Asst. Technician	- Kamrul Hossain
Contractor	: Site Engineer	- Ataur Rahman
	: Site Manager	- Md. Emadul Hoque
	: SAE	- Mizanur Rahman
	: Foreman	- Abdul Zabbar
		- Mostafa Kamal
		- Noor Mohammad Miah

The present Site Engineer and Site Manager are under transfer New Site Engineer will join by June '84.

2. GENERAL STATEMENT OF PROGRESS CAUSES OF DELAY :-

Kishoregonj is mainly a part of haor of Mymensingh District and major part surrounded by haor of Sylhet district having bounded by the basins of Brahmaputra river and other rivers. The site is low and serves as drainage channel of the surface run off of large

A. H. Nazrul Islam

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: 2 :

catchment area consisting of several villages of Joshodal Union. Water current flows from the culverts of Road (Western side of site) to the culvert of Railway (Eastern Side of railway) through the site. Due to heavy un-natural rains between the last week of April 1984 upto 31st May 1984 the site was completely flooded with water. Continous rains time to time in the day time almost suspended the work through out the month. The filling operation was stopped on majority day due to non-availability of dry period to obtain range of moisture content of compact fill bed of warehouse and other places of structures. The R2 Building excavated pond was under water. Adequate pumping arrangements were made to bell out water from the site. Due to transport strike for 10 days and several rain-cut at the roads, the incomming of materials to site was almost suspended. The roads and approach roads were repaired by us during the period. Chairman Kishoregonj Purashava, submitted a claim to us asking compensation for the damage and repair of the road and culvert. The road from Kishoregonj to site is not designed for Highway Traffic and can accomodate less traffic volume and traffic density. We are bringing less quantity of materials than the capacity of truck in Highway and thereby sustaining loss due to this inbound Traffic. We are maintaining the damages of the road and culvert points, rain-cut points of the road time to time.

Due to heavy rain and rain cut and flooding huge quantity of select fill from embankments washed away by water current and about 15% to 20% select fill materials lost time to time to drain out the area. Two drainage channels were constructed one of which was constructed by excavation of channel through the compacted select fill of Railway embank side along the warehouse. Huge amount of common fill materials sand (F.M. = 1.2 min.) and materials meeting the specifications were already utilized in the site at several places to keep the site raised above some water level and to keep the site under working condition for a short span of time against heavy continuous rains and flooding of the site area. We sustain loss due to additional cost of protection of embankment, extra materials, continous pumping etc. Had the notice to proceed been issued 45 days earlier we would have had to sustain no loss for the rains and flooded of the site and we would have had the entire completion of filling work before 20th April '84 including completion of surcharge of the warehouse.

Contd.....P/3

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National Construction & Consult Ltd.

Construction Engineers & Reinforced Concrete Specialists, Architects & Consultants

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: 3 :

In fact, we lost the working season of the year due to delayed notice to proceed.

DETAILS OF WORKS PERFORMED :

A1. SITE DEVELOPMENT

A1 - Mobilization & demobilization

- R.T. Tire Roller on site in operation
- Adequate water supply arrangements provided
- Heavy Rubber tire Tractor on site in operation
- Field Engineers office 95% complete. Transported to the site all furniture and almost all fittings
- Additional room for contractors site office has been constructed to spare additional room for consultant's site personnel.

A2. Preparation of site

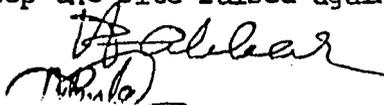
- The work of site preparation completed.

A4. - Excavation :

- Excavation work stopped in this period of May due to heavy rains and flooding of the site.
- Removal of Top soil complete (by 30th March)
- Removal of unsuitable soil from warehouse deep pond area completed (by 31st March)
- Removal of unsuitable materials to a depth of 7'-6" av. from R2 & R3 building completed (by April)

A6. Filling with imported materials :

Filling operation could not be done in most of the days of May 84 due to heavy un-natural continuous rains and flooding of the site. Wet conditions of the select fill bed in the excess of the range of moisture content for compaction did not allow us to work most of the times resulting shifting of the programme of works of the project. Continuous pumping of water was done to evacuate flooding of the site. Huge quantity of ordinary filling work was done during this month with imported ordinary fill as per specification to keep the site raised against water.


M. A. H. Albar

Contd...P/4

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National Construction & Consult Ltd.

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Phone : 24935

: 4 :

A10. Small portion of boundry wall done due to flooding of water and continous rains.

2.1 MOBILIZATION OF MATERIALS :

In this period Sylhet sand was brought to the site from Haluaghat by truck = 10,500 cft. and Sylhet sand purchased from Roads & Highways department Kishoregonj and was brought to the site =15,000 cft and Sylhet sand from other sources =1,500 cft i.e. Total 27,000 cft. of Sylhet sand was procured. Component fill materials 33000 cft of sand (F.M. 1.2 to 1.3) were transported from Shambhugonj and 5000 cft of component sand of F.M. (1.3 to 1.44) were transports to the site from Pakundia P.S. through Katcha and Semi pucca road. The cost of these materials became double than that of the rate estimated to quoted the tender. In order to reach the schedule programme, we spend huge additional money under the adverse weather condition.

Materials brought to the site upto 31st May 1984 are as follows :-

	30 April 1984	31st May 1984
1. Cement	1600 bags	1600 bags
2. Bricks	250,000	2,80,000 Nos
3. Boulders F.M. (11.22 to 1.5)	10,000	10,000 cft.
4. a) Sand (Component sand for selecting fill to be used in admixture with Sylhet sand to purpose select fill (F.M. 1.2 to than 1.5)	4,50,000 cft.	4,88,000 cft.
b) Sand F.M. (1.5 to 1.8)	30,000 cft.	30,000 cft.
c) Sylhet sand (coarse) F.M. = 3 2.8 to 3	76,000 cft.	93,000 cft.
d) Sand with silt for common fill	1,65,000 cft.	1,65,000 cft.
e) Reing. Deformed bars	Tk. 1.5 millions was paid to Bangladesh Steel Ltd. for procurement.	

Abbar

Contd....P/5

16



National Construction & Consult Ltd.

Construction Engineers & Reinforced Concrete Specialists, Architects & Consultants

Office :

Plot No. 12A, Block No. CWN(A)
North Avenue, Gulshan Model Town, Dhaka.
Phone : 605729

Branch Office :

166, Sher-e-Bangla Road, Khulna.
Phone : 24935

: 5 :

3. CLAIMS : The following are the claims appended below :

CLAIM ITEM NO. 1 : (Brought forward from the monthly report ending 30th April '84)
Additional rate claimed than the tender rate for select fill materials due to delayed notice to proceed resulting additional cost of Sylhet sand & component sand (Sriramdi/Shambhugonj) and mixing to reach the required F.M. of select fill and non availability specified of select fill sand, independent of mixture with Sylhet sand (F.M. 2.8 to 3) from Brahmaputra river at Hossainpur for cut - off river communication due to delayed notice to proceed, at a much cheaper rate being considered for the tender quotation, including additional cost of Transport and mixing to get the specified materials of select fill (F.M. 1.5 min.). Works done and mixing done as per test of the Engineer and direction of the Engineer.

Tk. 7/30 per cft of select fill materials.

CLAIM ITEM NO.2 : (Brought forward from the monthly report ending 30th April '84)
Excavation of unsuitable soil in shallow pond area of warehouse and 8' depth of R3 & R2 building and removal of the same as per direction of the Engineer-in-charge as additional item of work beyond the tender schedule and drawings. Works performed as per direction of the Engineer.

@ Tk. 1.50 per cft.

CLAIM ITEM NO.3 : (Brought forward from the monthly report ending 30th April '84)

Additional cost of due to increased quantities of select fill than the estimated quantity put to tender by engaging labours, expert labours, day and night giving extra payment of labours and additional arrangement for Rolling in the night time, etc complete as per direction of the Engineer.

@Tk. 2/30 per cft. of additional filling than the tender quantity.

CLAIM ITEM NO. 4 : (Brought forward from the monthly report ending 30th April '84)

Additional rate claimed for De-watering of the pond excavated to remove unsuitable soil for ground water and surface water due to heavy rains including shoring and maintaining moisture content in the specified range for compaction

Habib
ABD

Contd....P/6



National Construction & Consult Ltd.

Construction Engineers & Reinforced Concrete Specialists, Architects & Consultants

Office :

Plot No. 12A, Block No. CWN(A),
North Avenue, Gulshan Model Town, Dhaka.
Phone : 605729

Branch Office :

166, Sher-e-Bangla Road, Khulna.
Phone : 24935

: 6 :

of select fill, additional cost of labour and materials etc. complete as per direction of the Engineer.

Tk. 30/- per sq.ft. of pond Area.

CLAIM ITEM NO. 5 : (Brought forward from the monthly report ending 30th April '84). Excavation of 7(seven nos.) holes in warehouse area and around the warehouse area for testing of soil 4'-0" dia, 8'-0" deep and filling the same with coarse egg-regated in admixture of select filling in layers, compacting the same upto 1'-6" height of select fill over existing Gr. L. as per direction of the Engineer.

Rate L.S. Tk. 5,000 per hole.

CLAIM ITEM NO. 6 : Additional claim for protection of embankment washing away of select fill materials (18% av. by volume) embankments time to time due to heavy un-natural and most uncommon rains and flooding of the site area, the site being a part of drainage channel between two bridge culverts transmitting water of the entire western villages of Joshodal Union, cost of additional select fill materials for refilling and re-compacting the embankments (for about 18% av. by compact volume already cost) including cost labours, rolling etc. making two drains and earthen dykes around, maintaining slopes 4 grades, continuous pumping through with the month time to time and maintaining the dykes, and embankments the difficulties being encountered due to delayed notice to proceed. All works complete as per specification and direction of the Engineer.

@ Tk.16/- per Cubic feet of select fill materials lost.

CLAIMS ITEM NO. 7 : Additional rate for lifting top layers of select filling work from excavated pond of buildings as per direction of the Engineer due to natural mixture of site-soil inside the pond during rains and flooding of the site and refilling the same with new select fill and re-compacting the same.

@ Tk. 15/- per cubic feet of the additional materials required.

Abulbar
Abulbar

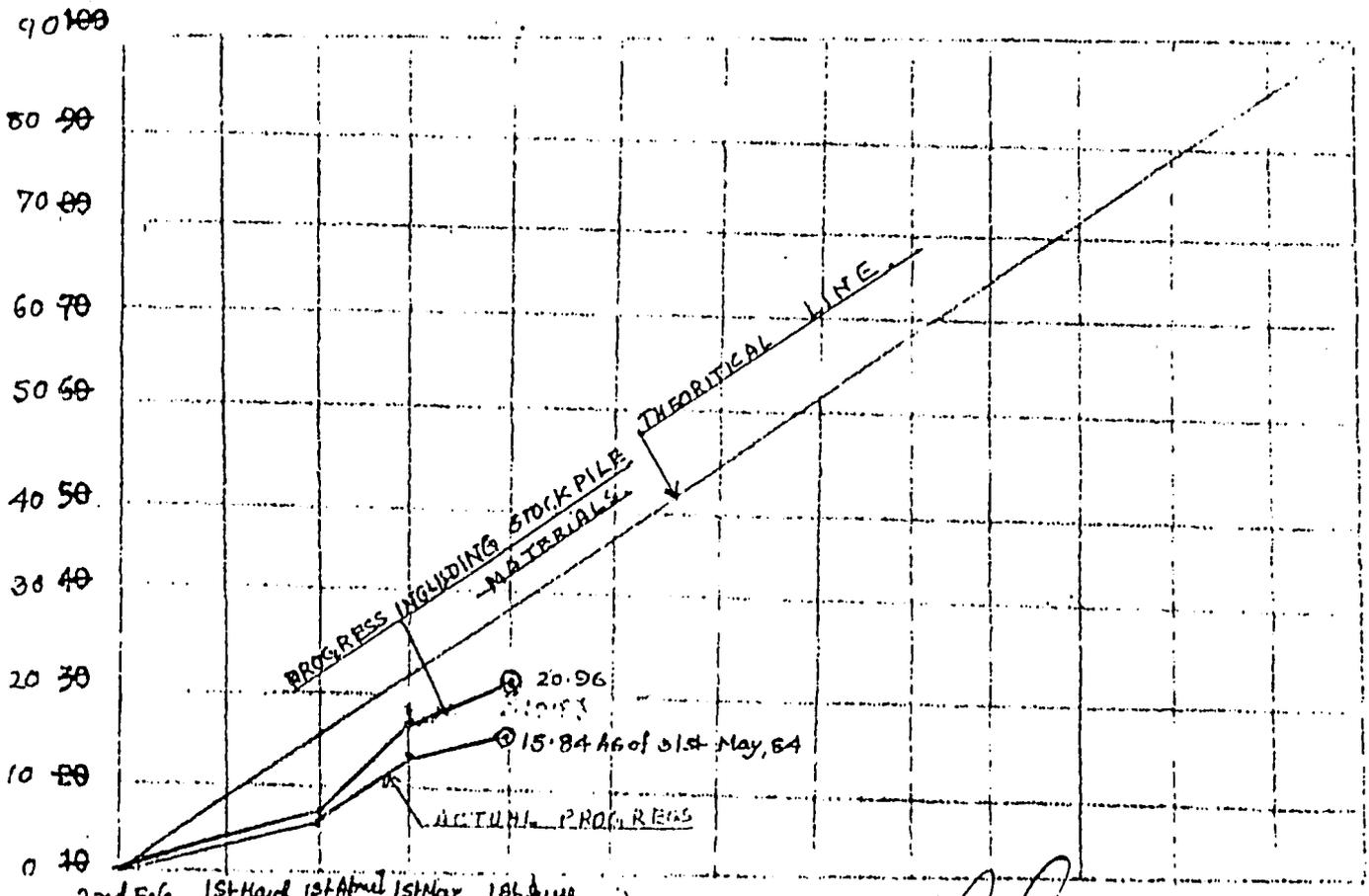
13

Contractor : National Construction & Consult Ltd.
 Institution No. : I.
 Site Location : BI-KISHORGANJ.
 Month ending 31st May, 1984

Schedule	Description	Weighted Percent	Percent Completed	To Date Completion
(1)	(2)	(3)	(4)	(5)
A	Site Development	36.12	42.86	15.48
B	Warehouse	45.57	—	—
C	Ancillary Buildings.	12.60	1.45	0.18
D	Water Supply, Sanitary and Plumbing	3.53	5.14	0.18
E	Electrical	2.18	—	—

Total % Mitowise Project Completion 100.---

15.84



Received the above mentioned % (percent of progress) is correct.
 F.S. N.T.O
 31/5/84

[Signature]
 31/5/84
 Site Engineer.

31 May, 1984

INVITATION NO.2 : C3-JAMALPUR

CONTRACTOR : Mostafa Brothers (Pvt) Ltd.

Total Contract Price : Tk. 1,76,94,451.01

Change Orders : Tk.

Revised Contract Price : Tk. 1,76,94,451.01

Payments To Date : Tk. 22,12,418.55

Retention To Date : Tk.

L/Com. No. : 388-002404

Date of L/Com. : 31.01.84

Issue Date of L/Com. : 02.02.84

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

L/Com. Amendment No.1 : 13.02.84

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

Insurance : CAR/PL : DAC/CAR/P-8/4/84

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 : 31.12.84(3)

Elapsed Time: 120 days 36.0%

% Completion			
Scheduled		Actual	
This Period	To Date	This Period	To Date
9%	36%	1%	19%
	Work : 3%		11%
	Material : (2%)		8%

1.0 Key Site Personnel

Engineer	: Senior Field Engineer	- A.O. Khan
	Field Engineer	- Mostahar Ali
	Inspector	- Sikander Ali
	Technician	- A. Wahed
Contractor	: Project Director	- A.B.M. Siddique Rahman
	Field Engineer	- Manik Lal Mondal <u>1/</u>
	Field Engineer	- Saiful Islam Khan <u>1/</u>
	<u>1/</u> Absent since 24.05	
	<u>2/</u> Absent since 23.05	

2.0 Contractor's Activities

	<u>This Period</u>	<u>To Date</u>
A. Site Development	-	35%
A1 Mobilization and Demobilization	-	83%
. Contractor's office, godown and laborer's shed completed.		
. Engineer's field office completed except for furnishings.		
A2 Preparation of Site	5%	95%
A4 Excavation	-	80%
A6 Filling with Imported Material (Select Fill)		72%
. Filling (3500) completed on 08.05.		
. Filling (1500) completed to elv.61.0.		
. Filling R2 to elevation 58.17 and R3 to elevation 59.17.		
A10 Boundary Wall - Type A	10%	19%
. 800 rft of brickwork completed on north and south sides		
A21 Surcharge For Preloading	20%	20%
. 58,000 cft placed (3500) to elevation 64.0		

C. Ancillary Buildings	-	7%
R1: No work to date		
R2:		
C1 Brick Flat Soling	-	40%
C2 Plain Concrete including concrete floor slab	-	39%
C3 Brickwork in foundation	-	95%
C4 Dampproof Course	-	95%
R3:		
C1		43%
C2		46%
C3		89%
C4		95%

2.1 Approved Materials On-Site

Portland Cement	- 15T
Reinforcing Steel, Deformed	- 60T
Bricks, 1st Class	- 200,000 nos.
Boulders	- 3518 cft.
Sand, Coarse	- 5768 cft.
Sand, Fine (For Filling)	- 50,000 cft.

2.2 Major Equipment On-Site

- 1- Tire Roller (Removed from site on 20.05)
- 2- Water Pumps (1-electrical; 1-diesel)
- 1- Concrete Mixer
- 1- Vibrator

3.0 Problems and Delays

- . Relocation of boundary wall on eastern side being resolved.
- . Railway land not officially handed over to BADC
- . Contractor to take effective measures to expedite the construction work.
- . The Engineer's office schedule for completion by 17 March is still incomplete.

4.0 Action Required

- | | | |
|------------|---|--|
| BADC | : | <ul style="list-style-type: none"> . Resolve dispute with Municipality on eastern boundary location. . Process obtaining incoming power line. . Resolve issue with District Manager relating to coconut tree interfering with construction of boundary wall. . Resolve issue relating to handing over newly purchased land on north-west. . Approve insurance policy . Action on claim for time extension C3-1. |
| Contractor | : | <ul style="list-style-type: none"> . Take over land from BR for railway siding. . Submit required monthly progress report (1784, 16.05) . Take positive action to expedite the work . Complete Engineer's Field Office . Submit construction photographs (1770, 15.05) . Update construction schedule (1844, 21.05) . Engage and post experienced Field Engineer (1903, 02.06) . Finalize outstanding issues noted in letter 724-4.5.1/1858, 22.05 |

6.0 Work Scheduled Next Month

<u>Event</u>	<u>Time Estimate</u>	<u>Scheduled</u>		<u>Actual</u>	
		<u>Start</u>	<u>Finish</u>	<u>Start</u>	<u>Finish</u>
Site Development					
Placing Surcharge (3500)	46	01.05	15.06	09.05	
Placing Surcharge (1500)	30	01.06	30.06		
Surcharge Period (3500)	80	16.06	03.09		
Boundary Wall & Gate	153	01.04	31.08	On-Going	
Deep Tube Well	30	01.06	30.06		
Warehouse					
Prepare Form-Rebar For Footing, Grade Beam, Column	85	23.05	16.08	Not Started	
Prepare Form-Rebar For Girder, Beam, Spandrel, Slab	85	01.06	24.08		
Ancillary Buildings					
R1:					
Excavation & Brick Soling	7	08.06	14.06		
Cement Concrete Foundation	15	11.06	25.06		
Brickwork to P.L.	15	18.06	02.07		
Concrete Ftg.and Column to P.L.	15	26.06	10.07		
R2 and R3:					
Concrete Ftg. and Column to P.L.(R2)	30	20.05	19.06	On-Going	
Brickwork & Column to Lintel	30	07.06	06.07		
Lintel and Sunshade	30	21.06	20.07		
Stairing to 1st Floor	30	27.06	26.07		

7.0 Shop Drawing

<u>Drawing No.</u>	<u>Date</u>	<u>Title</u>	<u>Action</u>
401/84	11.04	Bar Schedule for EFO	B
JR1/01	29.04	Rebar Details Footing, Column, Lintel, Sunshade	A
JR/02-1	26.04	Reinf. Stairs R1, R2, R3	C
JR/02-2	30.04	Reinf. Stairs R1, R2, R3	C
JR-03	02.05	Septic Tank, Soak Well, Inspection Pit Detail	A
JR3-04 R1	31.05	Reinforcement for lintel sunshade	B
JR1-05-1	06.05	Reinf. Floor and Roof Slab and Detail of Beam	C
JR1-05-2	06.05	-do-	C
JR2-06	08.05	Reinf. Plan of lintel, sunshade and footing	C
JR-07	11.05	Plumbing & Sanitary Detail EFO	C

7.0 Shop Drawing - cont'd

<u>Drawing No.</u>	<u>Date</u>	<u>Title</u>	<u>Action</u>
JR2-08-1	15.05	Reinf. Plan of Floor & Roof Slab & Beam Details	C
JR2-08-2	15.05	-do-	C
JR3-09-1	19.05	-do-	C
JR3-09-2	19.05	-do-	C
JR-10	24.05	Reinforcement Details of Tally Office & Public Toilet	-
JR-11	26.05	Reinf. Details of Chimney Bldgs R1, R2 & R3	-
JR-12	30.05	Reinforcement Details of Guard House	-
Jr-13	28.05	Reinforcement Details of Pump House	-

8.0 Financial

	<u>Invoice</u>	<u>Payment</u>
Mobilization Advance	Tk. 8,84,722.55	Tk. 8,84,722.55
Material Prepayment	13,27,696.00	<u>13,27,696.00</u>
		Tk. 22,12,418.55

9.0 General

- . Twelve days (22 working hours) of rain this month. No effect on placing of fill.
- . The Contractor is at least 25 days behind his 24.05.84 schedule. Since placing surcharge and surcharge period are on critical path, the contractor must expedite (night and day) placing of surcharge fill.

CONSOLIDATED MATERIALS TESTING REPORT

Project: Fertilizer Warehouses Phase III

For the month May 1984

Site : Jamalpur

Material/Test	Spec. No.	No. of Tests	No. Approved	No. Dis-Approved	Remarks/Requirement
A. Select fill	2E.01-a	8	6	2	Requires F.M. greater than 1.5 and less than 5% passing sieve No.200
B. Mortar Sand	4A.03	2	2	0	
C. Cement	3A.02-a	2	2	0	Brand name: KUMGANG UNIVERSAL
D. Field Density Tests: Select Fill	2E.01	119	106	13	90% and 95% MDD
E. Concrete:		<u>No. of test at</u> <u>7 days</u> <u>28 days</u>			
Compressive Strength Test	3A.03 3A.05	12	18		Min. required strength is 3000 PSI at 28 days

SCHEDULE OF EVENTS.

Period 1.6.84 to 30.6.84



Project Warehouse Phase - III

Location : C₃ - JAMALPUR.

Work Item : Site Development, Warehouse and Ancillary Building.

Contractor : MOSTAFA BROTHERS (PVT) LTD.

271/I, Elephant Road, (1st Floor),
Dhaka - 5.

Item No.	Description of works.	Time estimated.	Schedule start - finish	Actual start-finish	Remarks
<u>Site Development.</u>					
A I	Mobilization & Demobilization :				
	a : Fitting & fixing complete. A/C of Field Engineer's office	3 days	3.6.84 - 6.6.84.		
	b : Painting & colouring complete of Engineer's field Office	3 days	3.6.84 - 6.6.84.		
A 6	a : Filling of Select fill & compacti- on of 1500 MT Godown Complete.	2 days	2.6.84 - 4.6.84.		
	b : Surcharge preload of 1500 MT & 3500 MT godown	15 days	5.6.84 - 20.6.84.		
A IO	Fitting Fixing of M.S. Angles Barbed wire for Boundary wall	15 days	10.6.84 - 25.6.84.		
<u>WAREHOUSE</u>					
	Fabrication of reinforcement of form works	18 days	12.6.84 - 30.6.84.		
<u>ANCILLARY BUILDING</u>					
C 5	a : R - I Bending layout, earthing etc.	3 days	8.6.84 - 11.6.84.		
C ₁ C ₂	b : Brick soling, 6cC, in foundation	3 days	12.6.84 - 15.6.84.		
C ₃	c : Brick work upto plinth level	5 days	16.6.84 - 21.6.84.		
C ₅	d : R-I Brick work upto window(middle) as directed by the Engineer	8 days	22.6.84 - 30.6.84.		
C ₅	e : R-2 - DO ----	8 days	22.6.84 - 30.6.84.		
<u>MATERIALS COLLECTION</u>					
	a : Brick Two lacs				
	b : M.S. Bar (Deformed) - 60 MT				
	c : Sand (coarse Sylhet) - 25,000 Cft.				
of					
NB :- Subject to availability, cash flow.					

Mostafa Brothers (Pvt) Ltd.

(Signature)
Managing Director

25

31 May, 1984

INVITATION NO.3 : FL-DOHAZARI

CONTRACTOR : The Eastern Engineers Consortium Ltd.

Total Contract Price	: Tk. 1,55,48,978.95	Date of Contract	: 16.01.84
Change Orders	: Tk.	Site Handed Over	: 26.01.84
Revised Contract Price	: Tk. 1,55,48,978.95	Notice To Proceed	: 02.02.84
Payments To Date	: Tk. 27,15,000.00	Scheduled Completion	: 31.12.84 (333)
Retention To Date	: Tk.	Elapsed Time	: <u>120</u> days <u>36.0%</u>
L/Com. No.	: 388-002405	<u>% Completion</u>	
Date of L/Com.	: 31.01.84	<u>Scheduled</u> <u>Actual</u>	
Issue Date of L/Com.	: 02.02.84	<u>This</u>	<u>This</u>
Amount of L/Com.	: Tk. 1,55,48,978.95 (\$625,317.00)	<u>Period</u>	<u>To Date</u>
L/Com. Amendment No.1	: 13.02.84	9 %	36 %
Performance Guarantee	: Agrani 001/84 Tk.15,54,900	Work	: 8%
Insurance	: DAC/CAR/COV-43/4/84	Material	: (5%)
			24 %
			18%
			6%

1.0 Key Site Personnel

Engineer	: Project Engineer	- Y.O. Kim
	Field Engineer	- Shahid Uddin Ahmed
	Lab. Technician	- Meer Khurshid Ali
	Inspector	-
Contractor	: Project Engineer	- Khondakar Anwar Hossain
	Site Manager	- Afzal Hossain Khan
	Site Supervisor	- Abdul Jalil
	Site Supervisor	- Motahar Hossain
	Site Supervisor	- Hossainuddin Ahmed
	Lab. Asst	- Rezaul Karim Salim

2.0 Contractor's Activities

	<u>This Period</u>	<u>To Date</u>
A. Site Development	16%	38%
A1 Mobilization & Demobilization	30%	59%
- Completed temporary access road, electric and water		(5%)
- Completed tubewell, labour shed, labourers toilet and cement godown, brick soaking tank and office		(20%)
- Mobilization of equipment, plant and material		(5%)
- Engineer's Field Office (75%)		(24%)
. Brickwork to 1st floor roof completed		
. 1st floor and ground floor concrete roof complete		
. Wood working on-going		
. Ground floor window grill and door frame fixing completed		
. Plumbing work in progress		
. Ground floor plastering completed		
- General Expenses		(5%)
A4 Excavation (60,890 cft)		21%
Topsoil excavation completed except river access.		

	<u>This Period</u>	<u>To Date</u>
A6 Filling with Imported Materials (Select Fill) (58,654 cft - 335,000 cft)	12%	68%
Elevation Fill Godown Area	- 31.50	
Ancillary Buildings	- 24.75	
East side road area	- 25.19	
Engineer's Field Office area completed. Top soil and gross sodding placed.		
A10 Boundary Wall, Type A	20%	20%
. North boundary wall completed except 3" capping		
D. Water Supply, Sanitary and Plumbing	3%	3%
D8 Septic Tank	1	1
Brickwork and slab completed		
D9 Soak Well	1	1
Brickwork and slab completed		

2.1 Approved Materials On-Site

Portland Cement	- 451 bags
Reinforcing Steel, Deformed	- 40 ton
Bricks, 1st Class	- 210,000 nos.
Boulders	- 864 cft.
Sand, Coarse	- 901 cft.
Sand, Fine (For Filling)	- 682,865 cft.

2.2 Major Equipment On-Site

- 1- Bulldozer (Worked 15 of 31 days: Broken down since 23.05)
- 2- Pumps
- 1- Concrete Mixer (7.5 cft)
- 1- Tire Roller (03.05 to 12.05)

3.0 Problems and Delays

- . No adequate and operable compaction equipment available at site.
- . EFO scheduled for completion 17 March still incomplete.
- . Access to river problem pending.
- . Non-submittal of working (shop) drawings effecting work.

1.0 Actions Required

- | | |
|------------|---|
| BADC | : . Finalize obtaining land for access to river.
. Take action to obtain incoming power line.
. Take action on Amendment No.F1-1, Contract Time Ex |
| Contractor | : . Obtain suitable, operable compaction equipment.
. Improve operation and site management. The project be managed from Dhaka office.
. Submit insurance policy (1761, 13.05)
. Submit time vs. completion curve with break-up calculations (1611, 16.04)
. Submit working (shop) drawings (1611, 16.04)
. Submit monthly progress report and photographs (1611, 16.04)
. Update construction schedule (1845, 21.05) |

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5.0 Claims

. Time extension due to late receipt of Notice To Proceed and land problems.

6.0 Work Scheduled Next Month

<u>Event</u>	<u>Time Estimate</u>	<u>Scheduled</u>		<u>Actual</u>	
		<u>Start</u>	<u>Finish</u>	<u>Start</u>	<u>Finish</u>
Filling (Godown)	45	12.03	04.05	09.03	
Place Preload	14	05.05	19.05		
Surcharge Period	30	20.05	19.06		
Remove Surcharge	10	20.06	30.06		
Filling (other Areas)	10	01.07	11.07		
Prepare forms, etc.					
grade beam & columns	40	11.05	20.06		
Foundation Excavation	10	01.07	11.07		
Publi Pilet	-	25.06			
Boundary Wall	-	-	-		In Progress
<u>Ancillary Buildings</u>					
Excavation	10	01.06	10.06		
Wall to Plinth	15	11.06	25.06		
Wall to Lintel	15	26.06	10.07		
Lintel/Sunshade	5	11.07	15.07		
Stair to 1st Floor	35	22.06	26.07		
Sanitary & Water	-	10.06	-		
Septic Tank/Soak Well	40	20.06	19.07		

7.0 Shop Drawings

<u>Drawing No.</u>	<u>Date</u>	<u>Title</u>	<u>Action</u>
004	18.04.84	EFO Bar schedule	A
005	19.04.84	Sequence Surcharge Preload Construction	C
006	21.04.84	Footing & Column Rl	C
007/008	27.04.84	Bar Schedule for footing, column and grade beam of godown	C
009	22.04.84	Lintel and sunshade Bar schedule - Rl	D
009/1	12.05.84	Bar Schedule Warehouse Beams and Canopy	-

8.0 Financial

	<u>Invoice</u>	<u>Payment</u>
Material Payment	Tk.27,15,000	Tk.27,15,000

9.0 General

- . Rain : 8 days (38 hours)
- . Contractor requires to strengthen his site management by posting a Director instead of running the project out of Dhaka office. Field staff lacks Dhaka office support.
- . Lack of adequate operable compaction equipment effects overall progress of work.
- . Contractor at least 30 days behind revised (30.04) schedule.
- . Contractor's non-submittal of working (shop) drawings will effect his future progress of work.

10.0 Variation

- .1 Delete excavation of material originally classified as unsuitable.

A3 Excavation To Waste

BOQ	-	288,850	
Actual	-	69,700	
Underrun	-	219,150 @ Tk.0.37 =	-(Tk.81,085.50)

- .2 Decrease in requirement of select fill due to deleting excavation

A6 Filling With Imported Material (Select Fill)

BOQ	-	778,870	
Actual	-	559,720	
Underrun	-	219,150 @ Tk.5.75 =	-(Tk.12,60,112.50)

CONSOLIDATED MATERIALS TESTING REPORT

Project: Fertilizer Warehouses Phase III

For the month May 1984

Site : Dohazari

Material/Test	Spec. No.	No. of Tests	No. App- roved	No. Dis- Approved	Remarks/Requirement
A. Select Fill	2E.01-a	21	21	0	Requires F.M. greater than 1.5 and less than 5% passing sieve No.200
B. Concrete Sand	3A.02- b.1	2	2	0	
C. Concrete Coarse Aggregate	3A.02- b.2	2	2	0	
D. Field Density Tests: Select Fill	2E.01	119	100	19	90% and 95% MDD
		<u>No. of test at</u> <u>7 days 28 days</u>			
E. Concrete: Compressive Strength Test	3A.03 3A.05		6	9	Min. required strength is 3000 PSI at 28 days

CONTRACTOR'S MONTHLY REPORT
BADC FERTILIZER WARE HOUSES - PHASE - III

31ST MAY 1984.
 MONTH ENDING

NOTIFICATION NO: 3. SITE: DOHAZARI-F. CONTRACTOR: THE EASTERN ENGINEERS CONSORTIUM LTD.

GENERAL STATEMENT OF PROGRESS:

ENGINEERS FIELD OFFICE BRICK WORKS AND R.C.C. WORKS ARE 100% COMPLETED. GROUND FLOOR WINDOWS AND DOOR FRAMES HAVE BEEN FIXED IN PLACE. PLUMBING AND SANITARY WORKS ARE GOING ON. SEWER TANK, SOAK WELL AND INSPECTION PIT COMPLETED INCLUDING SLAB CASTING. PLASTERING INSIDE THE GROUND FLOOR IS COMPLETED. MAIN ROOM WOODEN DECK IS COMPLETED. VERANDA WOODEN PILLARS HAVE BEEN PLACED. NORTH SIDE BOUNDARY WALL BRICK WORK IS COMPLETED UP TO REQUIRED HEIGHT. WEST SIDE BOUNDARY WALL (BRICK WORK) ABOUT 200 FT LONG HAS BEEN COMPLETED UP TO 3 1/2' HEIGHT FROM G.L. CONTRACTORS FIELD OFFICE IS COMPLETED. NECESSARY WOOD AND STEEL WORKS ARE GOING ON. SELECT FILLS IN THE GODOWN SURCHARGE AREA HAVE BEEN COMPLETED UP TO REQUIRED E.L. = 31.50. FROM THE 1ST OF JUNE 84. WE ARE GOING TO START FILLING FOR PRELCHDING SURCHARGE. APPROXIMATELY 62812 CFT. SELECT FILLS HAVE BEEN COMPLETED DURING THE MONTH. OUT OF 31 DAYS OF THE MONTH, BULL-DOZER WAS OUT OF ORDER - 16 DAY. SO, FILLING PROGRESS COULD NOT BE ATTAINED AS SCHEDULED. AT PRESENT FILLING WORKS ARE BEING DONE BY HAND RAMMER.

FINANCIALS: AMOUNT INVOICE TO DATE: TAKA: 27,15,000.00
 PAYMENTS TO DATE: " - 00 -

MANPOWER:

1. ENGINEER - 1 NO.	} 9 HOURS WORK	8. PLUMBER - 2 NOS.	} 9 HOURS WORK.
2. MANAGER - 2 NOS.		9. CARPENTER - 4 NOS.	
3. SUPERVISOR - 3 NOS.		10. BAR-BINDER - 4 NOS.	
4. LAB. TECHNICIAN - 1 NO.		11. MASON - 8 NOS.	
5. STORE MAN - 1 NO.		12. MASON HELPER - 15 NOS.	
6. MECHANIC - 1 NO.		13. SECURITY GUARD - 4 NOS. (DAY AND NIGHT)	
7. ELECTRICIAN - 1 NO.		14. DAILY LABOUR - 148 NOS.	

EQUIPMENT:

1. BULL-DOZER - 1 NO.	5. CYLINDER MOLD - 5 NOS.
2. PUMP - 2 NOS.	6. SAND CONE APPARATUS - ONE SET.
3. SURVEY INSTRUMENT.	7. SLUMP CONE APPARATUS - ONE SET.
4. CONCRETE MIXTURE MACHINE	8. BALANCE - 1 NO.

DESCRIPTION	AMOUNT	UNIT	REMARKS	BOULDER	RE-13R	
OPENING STOCK AT SITE	2,10,000 CFT	310 CFT	70 TONS	2,10,000 CFT	328 CFT	40 TONS
ACQUIRED DURING MONTH	14,7718 CFT	177 CFT	16 "	32,000 NOS	266 "	-
USED DURING MONTH	48,000 "	397 CFT	191 "	30,000 "	328 "	-
CLOSING STOCK AT SITE	2,77,718 "	150 CFT	39 "	212,000 "	266 "	40 TONS

THIS PERIOD PROGRESS:

OUR SCHEDULED PROGRESS WAS 43.31% BUT ACTUALLY 14.02% HAVE BEEN DONE (CONSIDERING ONLY WORK). AND 18.13% (CONSIDERING WORK AND COLLECTED MATERIALS)

BOTTLENECKS AND DELAYS:

DURING THIS MONTH WE COULD NOT FOLLOW OUR FILLING WORKS PROGRAMME PROPERLY DUE TO RAINY WEATHER AND MECHANICAL BREAK-DOWN OF THE BULL-DOZER. 16 DAYS BULL-DOZER WAS DIS-ORDER. SO, WE COULD NOT ATTAIN THE FILLING PROGRESS AS PLANNED. ENGINEERS FIELD OFFICE PROGRESS WAS ALSO HAMPERED BY UNFAVOURABLE WEATHER. CONDITION WHICH WILL CAUSE ALTIMATE DELAYS OF WORKS

CONTRACTOR'S FIELD: NIL

THIS MONTH SCHEDULED PROGRAMME:

- ENGINEERS FIELD OFFICE REMAINING WORKS COMPLETE BY 15/6/84.
- BOUNDARY WALL IS EXPECTED TO BE COMPLETED BY 30/6/84.
- RE-13R : 1/6/84 TO 14/6/84 (FILLING) AND
- FILLING IN ACCESS ROAD AND BUILDING AREA UP TO REQUIRED E.L. EXPECTED TO BE COMPLETED BY 30/6/84.

PROGRESS CHART: ATTACHED.

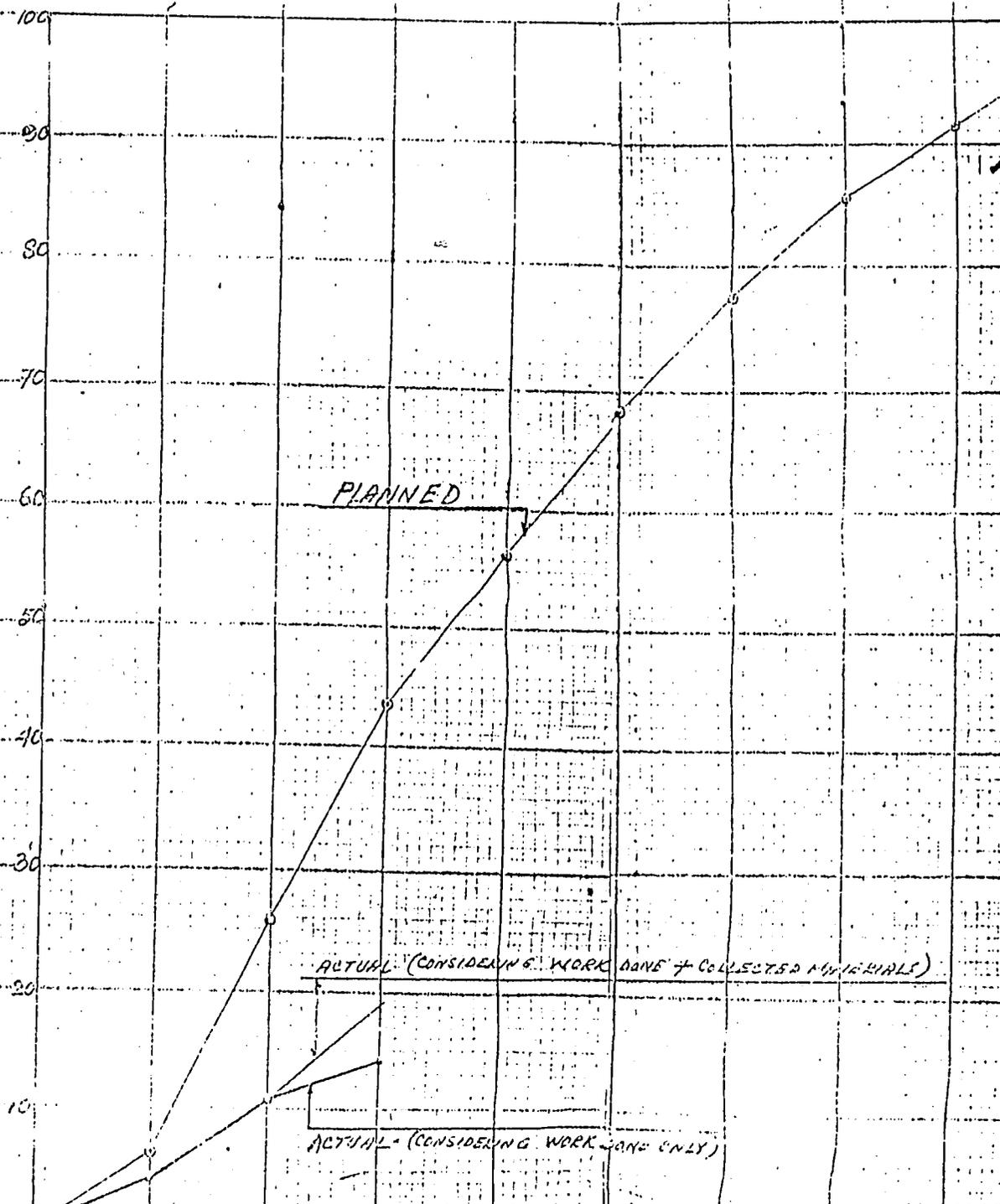
CONCLUSIONS: ATTACHED.

Date: 31st May 1984.

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TIME VS. COMPLETION CHART
FERTILIZER WARE HOUSES - PHASE III

31st May 1984
 MONTH ENDING



SCHEDULED	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCTOBER	NOVEM
MONTHLY PROGRESS %	8.5%	17.4%	17.9%	12.81%	12.07%	9.12%	8.05%	7.05%	5.00%
CUMULATIVE PROGRESS %	8.5%	25.9%	43.81%	56.62%	68.69%	77.81%	85.86%	92.91%	97.91%
ACTUAL CUMULATIVE PROGRESS %	7.1%	10.69%	17.02%						

F1-7

Best Available Document

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INVITATION NO.4 : F3-COX'S BAZAR

CONTRACTOR : Builders The Best Ltd.

Total Contract Price : Tk. 99,64,470.85

Change Orders : Tk.

Revised Contract Price : Tk. 99,64,470.85

Payments To Date : Tk.

Retention To Date : Tk.

L/Com. No. : 388-002406

Date of L/Com. : 31.01.84

Issue Date of L/Com. : 23.02.84

Amount of L/Com. : Tk. 99,64,470.85
(\$400,731.00)Performance Guarantee : Indosuez PB/TK/009
Tk.10,00,000

Insurance : DAC/CAR/P-13/5/84

Date of Contract : 12.01.84

Site Handed Over : 26.01.84

Notice To Proceed : 23.02.84

Scheduled Completion: 31.12.84 (312)

Elapsed Time: 99 days 31.7%

% Completion			
Scheduled		Actual	
This Period	To Date	This Period	To Date
10 %	32 %	10 %	37 %
	Work	: 7%	17%
	Materials	: 3%	20%

1.0 Key Site Personnel

Engineer	: Project Engineer	- Y.O. Kim
	Field Engineer	- M.M. Matiur Rahman
	Technician	- A. Rashid
	Inspector	- S. Islam
Contractor	: Site Engineer	- Ataul Latif Md. Helal Ahsan
	Field Engineer	- Abdul Baki Miah

2.0 Contractor's Activities

	<u>This Period</u>	<u>To Date</u>
A. Site Development		10.9%
A1 Mobilization and Demobilization		
. Contractor's temporary facilities completed.		
. Engineer's Field Office 95% complete.		
. Procuring and stockpiling material.		
A2 Preparation of Site		95%
. Cleaning and grubbing completed.		
. Existing boundary removed.		
A4 Excavation		85%
. Remaining 15% on access to river area yet to be handed over.		
. Excavation exterior godown footing complete.		
. Foundation R1, R2 and R3 completed.		
A6 Filling with Imported Materials (Select Fill)		60%
A10 Boundary Wall		80%
B. Warehouse	7%	7%
B2 R.C. Footing, Footing Tie Beam and Grade Beam (1935 cft)	50%	50%
B11 Reinforcing Steel (5 MT)	7%	7%

		<u>This Period</u>	<u>To-Date</u>
C. Ancillary Buildings			
R1: 3 units			
C1	Brick Flat Soling (1400 cft)	-	100%
C2	Plain Concrete incl. Floor Slab (200 cft)	-	50%
C3	Brickwork in Fdn. to P.L. (1124 cft)	-	100%
C4	Damp Proof Course (160 sft)	100%	100%
C5	Brickwork above P.L. (1600 cft)	33%	33%
C6	Reinforced Concrete (50 cft)	2.3%	2.3%
R2: 2 units			
C1	(489.48 sft)	-	100%
C2	(156.45 cft)	-	
C3	(932.49 cft)	-	100%
C4	(125.51 sft)	100%	100%
C5	(774.60 cft)	30%	30%
R3: 2 units			
C1	(418.35 sft)	-	100%
C2	(138.50 cft)	-	
C3	(814.42 cft)	-	100%
C4	(116.48 sft)	100%	100%
C5	(726.49 cft)	30%	30%
D. Water Supply, Sanitary and Plumbing			
		5%	9%
D8	Septic Tank (1-Type A and 1-Type B)	33%	67%
D9	Soak Well (2)	25%	50%
2.1 Approved Materials On-Site			
Portland Cement		- 1570 bags	
Reinforcing Steel, Deformed		- 51.41 tons	
Bricks, 1st Class		- 321,000 nos.	
Boulders		- 4075 cft	
Sand, Coarse		- 3860 cft	
Sand, Fine (For Filling)		- 149,775 cft.	
Stone Chips		-	
Lime		- 12 ton	
2.2 Equipment On-Site			
1- Concrete Mixer (8 cft)			
1- Vibrator			
1- Water Pump (1 HP)			
1- Water Pump (2 HP)			
1- Compactor (Tamper) Not operable			
3.0 <u>Problems and Delays</u>			
. Late submittal of shop drawings			
. Lack of full-time management			
. Lack of shuttering material			
. Engineer's field office scheduled for completion by 7 April still incomplete.			

4.0 Actions Required

- BADC : . Negotiate land for access to river.
 . Resolve thoroughfare problem.
 . Obtain incoming power line. (1511, 29.03)
 . Action on Amendment F3-1, Contract Time Extension (1841, 21.05)
 . Approval of insurance policy (1889, 27.05)
- Contractor : . Complete Engineer's Field Office
 . Submit shop drawings 15 days in advance of scheduled construction.
 . Submit construction photographs and monthly report (1799, 16.05)
 . Update construction schedule (1847, 21.05)

5.0 Claims

- . Claim for time extension.

6.0 Work Scheduled Next Month

<u>Event</u>	<u>Time Estimated</u>	<u>Scheduled</u>		<u>Actual</u>	
		<u>Start</u>	<u>Finish</u>	<u>Start</u>	<u>Finish</u>
Filling Imported Material	91	01.04	30.06	On-going	
Boundary Wall	91	01.04	30.06	Incomplete	
Entrance Gate	30	01.06	30.06	Not Started	
Guard House	61	01.05	30.06	Not Started	
Warehouse: Canopy level 1st half	50	01.05	20.06	Behind Schedule	
: Electrical work	-	20.04	-	Not Started	
Ancillary : B.W to Floor Level	30	10.06	10.07		
: Door & Windows	-	01.06	-		
: Sanitary & Water	-	01.06	-		
: Electrical	-	01.03	-		

7.0 Shop Drawings

<u>Drawing No.</u>	<u>Date</u>	<u>Title</u>	<u>Action</u>
11/84	05.04.84	Engineer's Field Office (Roof Truss & Slab)	B
12/84	15.04.84	Details of Wooden Door, Steel Windows Grill & Wooden Floor Door Frame Joint, Post and Beam Joint	B
13/84	26.04.84	Rebar Schedule of Col. C1, C2A, C2B, CA and Door Column	B
15/84	26.04.84	Concrete Formwork Grade Beams, Columns Canopy Beam & Canopy	H
15/84	08.05.84	Rebar Schedule of Grade Beam	A
17/84	16.05.84	Canopy Beam & Loading Platform	B
18/84	27.05.84	Rebar Schedule Lintel & Sunshade R3	A

7.0 Shop Drawings - cont'd

<u>Drawing No.</u>	<u>Date</u>	<u>Title</u>	<u>Action</u>
20/84	22.05.84	Rebar Schedule of Stair, Stair-Sunshade, Louver and Stair Slab R1	-
21/84	19.05.84	-do- R2 and R3	-
22/84	22.05.84	Rebar Schedule Lintel & Sunshade R1	B
24/84	26.05.84	Rebar Schedule of Lintel, & Sunshade & Column R2	B
25/84	29.05.84	Electrical R1	-
26/84	30.05.84	Electrical R2	-
27/84	31.05.84	Electrical R3	-
28/84	31.05.84	Electrical Godown	-

8.0 Financial

Nil

9.0 General

The Contractor is about 45 days behind schedule. In the Engineer's opinion he could get on-schedule with a more concentrated effort to increase activity.

10.0 Variation

Select Fill Overrun:

Ground at existing godown was saturated with fertilizer and other area with brick bats and unsuitable materials requiring additional excavation and filling.

BOQ : 57,890 cft
Actual : 88,000 cft.
Overrun : 30,110 cft. @ Tk.9.24 = Tk.2,78,216.40

INVITATION NO.5 : H2-CHOWMUHANI

CONTRACTOR : Technocon Limited
 Total Contract Price : Tk.1,41,20,342.60
 Change Orders : Tk.
 Revised Contract Price : Tk.1,41,20,342.60
 Payments To Date : Tk.
 Retention To Date : Tk.
 L/Com. No. : 388-002407
 Date of L/Com. : 31.01.84
 Issue Date of L/Com. : 23.02.84
 Amount of L/Com. : Tk.1,41,20,342.60
 (\$567,863.00)
 Performance Guarantee : Indosuez PB/TK/006
 Tk.14,12,035
 Insurance : DAC/CAR/P-07/4/84

Date of Contract : 12.01.84
 Site Handed Over : 31.01.84
 Notice To Proceed : 23.02.84
 Scheduled Completion: 31.12.84(312)
 Elapsed Time: 99 days 31.7%

% Completion			
Scheduled		Actual	
This Period	To Date	This Period	To Date
10 %	32 %	5 %	18 %
	Work	5%	15%
	Material	-	3%

1.0 Key Site Personnel

Engineer : Senior Field Engineer Inspector Asst. Technician Contractor : Project Engineer Site Engineer Asst. Site Engineer Site Manager	- M.J. Alam - S.C. Howladar - A. Rouf - L.A. Sikdar - Sk. Rezaul Hoque - Md. Jahangir Alam - Abul Kashem
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2.0 Contractor's Activities

	<u>This Period</u>	<u>To Date</u>
A. Site Development	-	39%
A1 Mobilization and Demobilization	20%	65%
. Contractor's temporary bamboo shed		
. Construct Engineer's Field Office	85%	85%
A2 Preparation of Site	-	100%
A4 Excavation	-	95%
A6 Filling with Imported Material	28%	93%
. Spreading and compacting of select fill in godown and parking area to 5 ft. height and ancillary building 2nd layer.	65,000 cft	205,000 cft
A10 Boundary Wall	37%	45%
. 200' on north - 4 ft. high; 400' on east - .3 ft high; 330' on south - 2 ft high.		
A21 Surcharge for Preloading	0%	0%
A23 48 inch R.C.Pipe Culvert	0%	0%
. 6-8 ft. lengths on site.		

D. Water Supply, Sanitary and Plumbing	1%	3%
D8 Septic Tank	13%	48%
1- Type B complete w/o cover		
D9 Soak Well	7%	22%
Depth 15'-6"		

2.1 Approved Material On-Site

Portland Cement	- 50 bags
Reinforcing Steel, Deformed	- 0.75 T
Bricks, 1st Class	- 20,000 nos. (to be sorted)
Boulders	- 5,600 cft
Sand, Coarse	- 11,000 cft.
Sand, Fine (For Filling)	- 80,000 cft. (to be blended)
Ordinary Fill	- 2,500 cft.

2.2 Major Equipment On-Site

- 1- R.T. Roller (10 ton)
- 1- Bulldozer (removed on 26.05)
- 2- Concrete Mixer
- 1- Vibrator
- 2- Water Pump

3.0 Problems and Delays

- . Inadequate "sweet" water not available at site. Contractor required to sink deep tubewell.
- . Non-completion of Engineer's Field Office scheduled for 7 April completion presenting a hardship to personnel.
- . Blending of select fill is slowing down program of filling. Contractor placed material not meeting specification which was disapproved. Contractor rectified.

4.0 Actions Required

- | | |
|------------|---|
| BADC | : . Approval of insurance policy (1601, 12.04) |
| | . Claim for Time Extension (1834, 20.05) |
| | . Obtain incoming power line (1358, 14.03) |
| Contractor | : . Install adequate water supply system for compaction. |
| | . Complete Engineer's Field Office. |
| | . Lease land for temporary facilities and for stockpiling of select fill and other materials. |
| | . Complete installation of RCC pipe culvert |
| | . Expedite blending, placement and compaction of select fill. |
| | . Install deep tubewell for sweet water. |
| | . Update construction schedule. |

5.0 Claims

Time extension due to late issuance of Notice To Proceed.

6.0 Work Scheduled Next Month

<u>Event</u>	<u>Time</u>	<u>Scheduled</u>		<u>Actual</u>	
	<u>Estimated</u>	<u>Start</u>	<u>Finish</u>	<u>Start</u>	<u>Finish</u>
Filling (Godown)	60	01.04	07.05	On-Going	
Place Preload Material	20	08.05	28.05	Not Started	
Surcharge Period	30	29.05	27.06	Not Started	
Remove Preload Material	20	28.06	27.07	Not Started	
Filling (Other Areas)	20	28.06	27.07	On-Going	
Boundary Wall	60	01.04	30.05	On-Going	
48" Culvert Pipe	40	22.03	30.04	Not Started	
Ancillary Bldg. Excavation	20	20.05	10.06	Not Started	
Brick to PL	40	01.06	10.07	Not Started	
Septic Tank/Soak Well	80	16.06	03.09	On-Going	
Deep Tubewell	10	26.06	05.07	On-Going	

7.0 Shop Drawings

<u>Drawing No.</u>	<u>Date</u>	<u>Title</u>	<u>Action</u>
CH-012A	08.04	Bar Schedule for Engineer's Field Office	H
CH-013A	18.03	Bar Schedule of Column & Footing	B
CH-014	18.03	Bar Schedule of Grame Beam, Tie Beam, Canopy Beam, Canopy Slab of Warehouse	C
CH-015	18.03	Bar Schedule for Beam of Godown	-
CH-016	21.05	Formwork of Public Toilet and Guard House	-
CH-017	25.03	Schedule of Bar of Warehouse Roof Slab, Bottom Vent, Top Vent	C
CH-018A	21.05	Schedule of Bars of Guard House & Public Toilet	-
CH-019A	22.04	Bar Schedule of Pump House	A
CH-020	23.04	Bar Schedule for Septic Tank, Inspection Pit & Soak Well	C
CH-021	03.05	Reinforced Masonry Wall	-
CH-022	03.05	Reinforcement Footing, Columns, Lintel, Stairing and Porch Ground Floor R1	-
CH-023 R1	09.05	Sanitary, Water Supply and Electrical EFO	B
CH-024	27.05	Footing, Lintel, etc. R2	-
CH-025	27.05	Beam, Floor, Slab, etc. R1	-
CH-026	30.05	Formwork Canopy Beam & Slab	-
CH-027	30.05	Floor, Roof, Stair Slab R2	-
CH-028	30.05	Lintel, Stairing, Beam R3	-
CH-029	30.05	Floor, Roof & Stair Slab R3	-

8.0 Financial

Nil

9.0 General

- . Land problem on west property line resolved during month.
- . Contractor has about 3.5 ft of fill to place and compact in godown area. The Engineer estimates he is 40 days behind schedule with no means to catch-up without compaction equipment.

CONSOLIDATED MATERIALS TESTING REPORT

Project: Fertilizer Warehouses Phase III

For the month May 1984

Site : Chowmuhani

Material/Test	Spec. No.	No. of Tests	No. Approved	No. Dis-Approved	Remarks/Requirement
A. Select Fill	2E.01-a	75	33	42	Requires F.M. greater than 1.5 and less than 5% passing sieve No.200
B. Ordinary Fill	2E.01-b	6	2	4	Max. 20% passing sieve No. 200
C. Mortar Sand	4A.03	3	3	0	
D. Concrete Coarse Aggregate	3A.02-b.2	1	0	1	
E. Bricks: Frogmark: MTBM	4A.02	1	1	0	Requires sorting at site
F. Field Density Tests: Select Fill.	2E.01	66	65	1	90% and 95% MDD
			<u>No. of test at</u> <u>7 days 28 days</u>		
G. Concrete: Compressive Strength Test	3A.03 3A.05	12	9		Min. required strength is 3000 PSI at 28 days

PROJECT : FERTILIZER WARE HOUSES PHASE - III
 LOCATION: H2-C4C ITUANI/ ~~XXXXXXXXXXXX~~
 WORK ITEM:

SCHEDULE OF EVENTS

TECHNOCON LTD June 1984
 Dhaka.
 Period from..1.6.84...to.30.6.84...

EVENT	DESCRIPTION OF WORK	TIME ESTIMATE	SCHEDULED		ACTUAL		REMARKS
			START	FINISH	START	FINISH	
H2-6	<u>Site Development</u>						
	1) Filling and compaction of select fill materials at godown and other area	80 days	28.3.84	15.6.84	4.4.84		- Filling at preloading area may be completed by June 15, '84. Heavy rain delayed the work. Others area to be continued.
	2) Boundary wall	65 "	28.3.84	31.5.84	25.3.84		- Due to heavy rain and land dispute boundary wall could not be completed in scheduled time. It may complete by June 30, 1984.
	3) 48" dia R.C. pipe culvert	40 "	1.5.84	10.6.84	22.5.84		- To be continued.
	4) Engineer's Field Office construction						- Work will be completed by June 10, '84.
	5) Septic tank, Soak well of Engineer's Field Office and public toilet						- Work nearly completed.
	6) Public toilet	30 "	1.7.84	31.7.84	3.6.84		
	<u>Ancillary Building</u>						
	Filling and compaction of R2 & R3 bldg. upto foundation bottom	18 "	28.4.84	15.5.84	28.4.84		- Work delayed due to heavy rain and work to be continued
	<u>Materials Procurement</u>						
	1) Select fill						- All to be continued
	2) Ordinary fill						
	3) Cement						
	4) Bricks						
	5) Rebars						
	6) Boulder						

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WAREHOUSE PHASE-III
CONTRACTOR'S MONTHLY REPORT

1.5.84 to 31.5.84
MONTH COVERED

INVITATION NO. 5 ✓
6

SITE: ✓ H2 CHOWMUHANI
H3 LAKSHMIPUR,

CONTRACTOR:
TECHNOCON LTD.

I. GENERAL STATEMENT OF PROGRESS

Progress this month 3.1%. Total progress overall 14.80%
Break down A (Total overall) 37.903%, D (overall) - 4.328%

II. FINANCIAL: Amount Invoice To Date Tk.
Payments To Date Tk.

III. MANPOWER RETURNS

Skilled - 360 nos., semi-skilled - 90 nos.,
unskilled/General labourers - 3613 nos.
office staff: 34. field Engg - 1, Asstt site Engg - 1, Foreman - 1,
super machine operator - 1, RT. operator - 1. Dredger crew - 3,

IV. EQUIPMENT REPORTS Night guard - 2

R.T. Roller, mixer machine - 2 nos., chain dredger,
water pump - 3 nos. vibrator - 2 nos.

V. MATERIALS:

Name	Unit	Opening Stock at Site	Procured During the month	Used During the month	Closing Stock at Site
Select sand	cft	165000	148000	190000	127000
Bricks	nos	53500	184500	45000	139500
Cement	Bag	20	195	185	30
synth sand	cft	13000	0	5000	8000
Boulder	cft	5600	0	300	5300
Rebar	Tons	0	0	0.75	0

VI. PROGRESS THIS PERIOD: Scheduled vs. Actual performed.

Engineer's field office brick work completed. Septic tank &
Soak well of EPO completed. 40% boundary wall completed.
75% filling completed at godown & other area. Public toilet foundation
bottom filling completed. Pipe culvert area filling going on.

VII. BOTTLENECKS AND DELAYS: Reasons, Action Required and Action Taken.

Due to heavy rains, program of work delayed
not less than about 10 days.

VIII. CLAIMS FILED Dispute at western side boundary wall.

IX. NEXT MONTH SCHEDULED PROGRAM

Follow the monthly schedule which have been
submitted.

X. PROGRESS CHART (attached)

XI. PHOTOGRAPHS (attached)

DATE: 1.6.84

SUBMITTED BY [Signature]
TITLE: SEC/TC 1/6/84

INVITATION NO.6 : H3-LAKSHMIPUR

CONTRACTOR : Technocon Limited

Total Contract Price : Tk.55,91,275.35

Change Orders : Tk. 5,000.00

Revised Contract Price : Tk.55,96,275.35

Payments To Date : Tk.12,72,681.70

Retention To Date : Tk. 27,321.30

L/Com. No. : 388-002408

Date of L/Com. : 31.01.84

Issue Date of L/Com. : 23.02.84

Amount of L/Com. : Tk.55,91,275.35
(\$224,858.00)Performance Guarantee : Indosuez PB/TK/007
Tk. 5,59,130

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:31.12.84(312)

Elapsed Time: 99 days 31.7%% Completion

<u>Scheduled</u>		<u>Actual</u>	
<u>This Period</u>	<u>To Date</u>	<u>This Period</u>	<u>To Date</u>
10%	32%	6%	36%
	Work	: 10%	22%
	Material	: -(4%)	14%

1.0 Key Site Personnel

Engineer	: Project Engineer	- Y.O. Kim
	Sr. Field Engineer	- Jahangir Alam
	Inspector	- Mozaharul Islam
	Technician	- S. Khan
Contractor	: Project Engineer	- Liakat Ali Sikder
	Site Engineer	- Zan-e-Alam
	Site Manager	- Abul Kashem
	Foreman	- M.M. Hossain

2.0 Contractor's Activities

	<u>This Period</u>	<u>To Date</u>
A. Site Development	7.2%	31.2%
A1 Mobilization and Demobilization	6%	80%
. Procurement of construction materials in progress		
A2 Preparation of Site	0%	90%
A3 Excavation	0%	70%
A6 Filling with Imported Material, Select Fill	5%	18%
. Select fill spreading and compaction to bottom of grade beam and spreading inside godown area		
A10 Boundary Wall	30%	55%
. 325 rft complete to 4'-9" ft. height w/angle fixing.		
. 175 rft complete to 4'-0" height		
. 67 rft complete to ground level.		
A16 Public Toilet	30%	80%
. Roof casting complete on 24.05.84		
. Select fill compacted to Elv.97.00		

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4.0 Action Required

- BADC : . Approve insurance policy (1603, 12.04)
 . Action on claim for time extension (1835, 21.05)
 . Relocate the power line from in front of godown area.
- Contractor : . Submit rates for Type B boundary wall (1867, 23.05)
 . Install deep tubewell.
 . Update construction schedule (1849, 21.05)
 . Gear up the work.

5.0 Claims

Time extension.

6.0 Work Scheduled Next Month

<u>Event</u>	<u>Time Estimate</u>	<u>Scheduled</u>		<u>Actual</u>	
		<u>Start</u>	<u>Finish</u>	<u>Start</u>	<u>Finish</u>
Site Development					
Filling Select Fill (Godown)	35	13.03	17.04	Incomplete	
Filling Select Fill (Other Areas)					
Boundary wall	50	07.04	27.05	Incomplete	
Guard House	30	28.03	27.04	Not started	
Public Toilet	30	28.03	27.04	Incomplete	
Brick Pavement	40	17.04	27.05	Not started	
Brick Guard Wall	40	17.04	27.05	do	
Concrete apron/curb/walkway	50	17.04	06.06	do	
Entrance Gate	15	27.04	17.05	do	
Guide Post	20	18.03	07.04	do	
Concrete Pavement	30	07.05	06.06	do	
Darwan's Quarters					
Stairway to 1st floor roof	60	17.04	16.06	Not started	
Sanitary, Water Supply, Pump House	120	17.04	15.08	Incomplete	
Electrical	120	17.04	15.08	Incomplete	
Septic Tank/Soak Well	50	27.05	16.07	Incomplete	
Warehouse					
Column to 6' height	35	17.04	22.05	Not started	
Brickwork to 6' height	20	27.04	17.05	do	
Bottom Vent	40	07.05	16.06	do	
Column 2/3h canopy beam slab	40	22.05	01.07	do	
Electrical	220	27.04	03.12	do	

7.0 Shop Drawings

<u>Drawing No.</u>	<u>Date</u>	<u>Title</u>	<u>Action</u>
C-GB-09A	11.04	Schedule of Column Footing, Grade Beam & Canopy Slab	B
GB-10A	30.04	Bar Schedule Girder & Beam	B
F-11	21.03	Formwork Public Toilet	H
F-12A	01.04	Formwork of canopy and stairway of Darwan's Quarter	H

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7.0 Shop Drawings - cont'd.

<u>Drawing No.</u>	<u>Date</u>	<u>Title</u>	<u>Action</u>
F-12B	01.04	Formwork for canopy Beam with Slab	H
SP-V-13	25.03	Schedule of Bars for spandrel & Vents	B
R-F-14 R1	27.03	Bar Schedule Roof and Floor Slab	Pending
M-15A	11.04	Schedule of Bars of Guard House and Public Toilet	A
D Qrt-16A	09.04	Bar S chedule for lintel, stair slab (Darwans Qrts)	B
SSW-17A	15.04	Bar Schedule of Inspection Pit, Septic Tank & Soak Well	B
FW-18	07.04	Concrete formwork for Beam B5 & B6	H
FW-19	07.04	Concrete formwork for Girder G3,G4	H
FW-20	07.04	Formwork for roof slab	H
SDQ-21	21.04	Reinf.Schedule Roof Slab, Penthouse slab, beam and chimney	H
FW-22	16.04	Concrete formwork for SP1, SP2 Warehouse	E
FW-23A	03.05	Concrete formwork for roof slab, stair roof slab & beam of Darwan's Qrt.	H
SPH-24A	22.04	Bar Schedule for Pump House	A
M25 R1	04.06	Bar Schedule Reinforced Masonry Wall, Loading Platform, etc.	Pending
H-26 R1	03.06	Sanitary,Plumbing and Electrical (Darwan's Qrt)	Pencing
H3-26 R1	24.05	Sanitary,Plumbing and Electrical (Public Toilet)	A
FW-27	29.05	Electrical (Warehouse)	Pencing

8.0 Financial

	<u>Period To</u>	<u>Invoice</u>	<u>Payment</u>
Progress Payment H3-1	07.04	Tk.12,72,681.70	Tk. 12,72,681.70

9.0 General

. The Contractor is about 50 days behind schedule. In the Engineer's opinion with more effort, employment of skilled laborers, and proper site management he can easily meet schedule.

10.0 Change Order

H3-01	31.05	Provide Kitchen Chimney Complete	- Tk. 5,000.00
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CONSOLIDATED MATERIALS TESTING REPORT

Project: Fertilizer Warehouses Phase III

For the month May 1984

Site : Lakshmipur

Material/Test	Spec. No.	No. of Tests	No. Approved	No. Dis-Approved	Remarks/Requirement
A. Select Fill	2E.01-a	7	2	5	Requires F.M. greater than 1.5 and less than 5% passing sieve No.200
B. Concrete Coarse Aggregate	3A.02-b.2	4	2	2	
C. Field Density Tests:					
Select Fill:					
Subgrade :	2E.01	20	16	4	90% and 95% MDD
		5	5	0	
D. Concrete:					
Compressive Strength Test	3A.03 3A.05	19	28		Min. required strength is 3000 PSI at 28 days

SCHEDULE OF EVENTS

June'84

PROJECT : FERTILIZER WARE HOUSES PHASE - III
 LOCATION: ~~XXXXXXXXXXXX~~/H3-LAKSHMIPUR
 WORK ITEM:

TECHNOCON LTD
 Dhaka.
 Period from..1.6.84...to..30.6.84...

EVENT	DESCRIPTION (F WORK	TIME ESTIMATE	SCHEDULED		ACTUAL		REMARKS
			START	FINISH	START	FINISH	
	<u>Site Development</u>						
	1) Filling and compaction of select fill materials at godown plinth/area	20 days	10.5.84	30.5.84			To be continued.
	2) Boundary wall	50 "	20.3.84	9.5.84	1.4.84		Due to land dispute at south side, completion delayed. Work to be continued.
	3) Public toilet	39 "	25.3.84	25.4.84	25.3.84		Finishing work will be continued.
	4) Guard house	30 "	28.3.84	27.4.84			Work will be start ed by June 5, 1984.
	<u>Ware House</u>						
H3-6	1) Casting of column, footing, grade beam	20 "	23.3.84	12.4.84	30.4.84		Grade beam complete. Only 2 footings(inside) remaining. To be continued.
	2) Column casting upto 6'-0" height	35 "	17.4.84	22.5.84			Will be started by June 9, 1984.
	3) Brick work (Reinforced) upto 6'-0" height	20 "	27.4.84	17.5.84			Work will be start-ed after column casting (by June 14, 1984).
	<u>Ancillary Building</u>						
	1) Brick work in pent house				2.6.84		To be continued.
	2) Finishing works	30 "	10.6.84	9.7.84			

WAREHOUSE PHASE-III
CONTRACTOR'S MONTHLY REPORT

MAY '84
MONTH COVERED

INVITATION NO. 5
6

SITE: H2 CHOWMUHANI
H3 LAKSHMIPUR

CONTRACTOR:
TECHNOCON LTD.

PROGRESS THIS PERIOD = 12.71%

- I. GENERAL STATEMENT OF PROGRESS WARE HOUSE: Grade Beam, Footing complete.
Dargan's Str: Brickwork upto 1st floor roof complete, Roof Slab casting complete, Public Toilet Roof-slab complete, Sepsic Tank complete, I-Pit complete. Soak well upto 11' depth.
Schedule A - 38.90%, Sch-B : 18.54%, C - 60.05%, D - 4.74%, E - 1.44%.

II. FINANCIAL: Amount Invoice To Date Tk.
Payments To Date Tk.

III. MANPOWER RETURNS

- (i) Skilled : 5890 working hours.
(ii) Unskilled : 24,080 working hrs.
(iii) Site Engr. : (i) (ii) Foreman : 1 (iii) (iv) Manager 1 (v)

- IV. EQUIPMENT REPORTS (1) Mixture Machine (1) NO
(2) Vibrator : 2 NOS
(3) Pump (Water) : 1 NO
(4) Truck : 1 NO
V. MATERIALS: (5) Pick-up : 1 NO

Name	Unit	Opening Stock at Site	Procured During the month	Used During the month	Closing Stock at Site
(1) M.S. Rod	M.T.	53.75	—	12 M.T.	41.75
(2) Concrete Sand	cft	5,800	—	1000	4800
(3) Cement	Bags	70	595	595	70
(4) Ss. Soil fill	cft	20,160	3,000	16,160	7,000
(5) Boulders	cft	4,675	4,500	2,000	15,200 ^{at site} 7175
(6) Bricks	NOS	23,500	50,000	33,500	30,000

* 10,000 Rejected

- VI. PROGRESS THIS PERIOD: Scheduled vs. Actual performed.
Schedule 'A' : $\frac{38.90 - 32.00}{32.00} = 6.90\%$. Schedule D : $\frac{1.74 - 2.50}{2.50} = 2.24\%$
Schedule B : $\frac{18.54 - 2.60}{2.60} = 15.94\%$. Schedule E : 1.44%
Schedule C : $\frac{60.05 - 23.00}{23.00} = 37.05\%$
TOTAL PROGRESS THIS PERIOD : 12.71%

VII. BOTTLENECKS AND DELAYS: Reasons, Action Required and Action Taken.

Rainfall on 13-5-84 - work stopped.

VIII. CLAIMS FILED

IX. NEXT MONTH SCHEDULED PROGRAM

- (1) Pent house Brickwork 2 Roof slab, Parapet
(2) Guard House
(3) Boundary Wall
(4) Electrical & Sanitary fittings of Public Toilet & Dargan's Str. & finishing work.
(5) Soak well
(6) Column of ware house, Brickwork of Ware House.

X. PROGRESS CHART (attached)

XI. PHOTOGRAPHS (attached)

DATE: 31-5-84

SUBMITTED BY: [Signature] 31/5/84
TITLE: Project Engineer (R)

31 May, 1984

INVITATION NO.7 : I4-CHANDPUR

CONTRACTOR : Fazle Azim Engineers Ltd.

Total Contract Price : Tk.1,70,67,822.35

Change Orders : Tk.

Revised Contract Price : Tk.1,70,67,822.35

Payments To Date : Tk. 22,59,791.12

Retention To Date : Tk.

L/Com. No. : 388-002409

Date of L/Com. : 31.01.84

Issue Date of L/Com. : 23.02.84

Amount of L/Com. : Tk.1,70,67,822.35
(\$686,398.00)Performance Guarantee : Janata MCK/002/84
Tk.17,10,000Insurance : DAC/CAR/P-10/5/84
dt.12.05.84Fidelity Bond : MCK:004:84, 06.03.84
Tk.8,53,400

Date of Contract : 16.01.84

Site Handed Over : 31.01.84

Notice To Proceed : 23.02.84

Scheduled Completion: 31.12.84(312)

Elapsed Time: 99 days 31.7%

% Completion			
Scheduled		Actual	
This Period	To Date	This Period	To Date
10%	32%	7%	18%
	Work	: 8%	11%
	Material	:- (1%)	7%

1.0 Key Site Personnel

Engineer	: Project Engineer	- Y.O. Kim
	Field Engineer	- Alamgir Bhuiyan
	Asst. Technician	- A. Nader
Contractor	: Inspector	- G. Mohammed
	Project Engineer	- Nazimul Huq Bhuiyan
	Field Engineer	- Asadur Rahman
	Inspector	- Tajul Islam Bhuiyan
		- Mustafizur Rahman

2.0 Contractor's Activities

	<u>This Period</u>	<u>To Date</u>
A. Site Development	17%	27%
A1 Mobilization and Demobilization	23%	80%
Engineer's Field Office		
Brickwork to 2nd floor		
Plastering ground floor		
Fixing window and door frames		
Sanitary pipe installed		
A2 Preparation of Site	10%	90%
. Removed old lime concrete foundation		
A3 Excavation To Waste	10%	95%
A4 Excavation	5%	80%
. Excavation for retaining wall foundations		
. Excavation R1, R2 and R3(60%) foundations		

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A6 Filling with Imported Material	23%	35%
. Filling EFO		
. Filling godown footing		
. Filling low spots		
A10 Boundary Wall	6%	46%
. East and west side brick work complete		
A22 Retaining Wall and Steps	15%	15%
. Prpearing re-steel		
. Foundation base 87 rft 9west) complete		
. Preparing shuttering for stess.		
B. Warehouse	5%	5%
B2 RCC Footing (23%)		
. Corner and south and west exterior footings complete		
. Forming and placing rebar for remaining exterior footings		
B11 Reinforcing Steel	7%	7%
C. Ancillary	0%	0%
Work held in abeyance. Refer to Problems and Delays.		
D. Water Supply, Sanitary and Plumbing	0%	2%
D8 Septic Tank	0%	21%
One partially complete (90%)		
D9 Soak Well	0%	22%
One partially complete (90%)		
2.1 Approved Material On-Site		
Portland Cement	- 300 bags	
Reinforcing Steel, Deformed	- 60 MT	
Bricks, 1st Class	- 111,000 nos. (For Bagged Aggregate	
Boulders	- 8000 cft	and Foundations)
Sand, Coarse	- -	
Sand, Fine (For Filling)	- 15,000 cft.	
2.2 Major Equipment On-Site		
2- Rammer		
2- Concrete Mixer		
3- Vibrator		
2- Water Pump		
1- Welder		
1- Drill Machine		

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3.0 Problems and Delays

- . Chairman, Pourasava, has not granted easement for access road connection to Sen Gupta Road and removal of shops obstructing this connection.
- . Chairman, Pourasava has suspended granting of easement for access road to Sen Gupta Road and relocating the canal by a letter issued to SDM, BADC.
- . Refer to PD/FWP-Phase 3/108.06/1635, 28.05.84: Suggestion by Chairman, BADC.
- . Work on ancillary buildings and culvert pipe held in abeyance pending showing of issues by BADC.

4.0 Action Required

- BADC : . Resolve issue of access road with Municipality.
. Remove existing sheds within work area.
. Resolve issue of bridge access to site.
. Resolve issue of boundary wall.
. Resolve issue of relocation of ancillary buildings
. Approve insurance policy
. Action on time extension I4-1
- Contractor : . Mobilize adequate labor force.
. Complete Engineer's Field Office.
. Submit monthly progress report.
. Increase labor force
. Update construction schedule
. Submit working (shop) drawings
. Submit construction photographs.

5.0 Claims

- . Contractor's claim under Clause 51(1)(c) for removal of masonry and concrete foundation within the godown area as per instruction (FAEL-BADC/AW/84/2303 dated 26.4.84). The material was to be removed by the removal contractor engaged by BADC.
- . Contract time extension (FAEL-ADC/AW/84/2388, 23.04.84)

6.0 Work Scheduled Next Month

<u>Event</u>	<u>Estimated Time</u>	<u>Scheduled</u>		<u>Actual</u>	
		<u>Start</u>	<u>Finish</u>	<u>Start</u>	<u>Finish</u>
Culvert Pipe		. Held in abeyand. See 4. above.			
Retaining Wall		. To be rescheduled for post monsoon.			
Site Development					
Filling (Select Material) Continuing					
Boundary Wall Type A	106	15.04	31.07		In progress
Warehouse					
Exterior Columns to 6 ft.	37	01.05	07.06		Not Started
Brick Wall to 6 ft.	45	15.05	30.06		do
Bottom Vent	30	01.06	30.06		do
50% Exterior Col. to 2/3h	30	07.06	06.07		do
Brickwork to 2/3h	34	21.06	14.07		do
Ancillary Buildings		. Held in abeyance. See 4. above.			

7.0 Shop Drawings

<u>Drawing No.</u>	<u>Date</u>	<u>Title</u>	<u>Action</u>
S-01 R1	02.04	Bar Schedule EFO	H
S-1A R1	05.04	Bar Schedule Retaining Wall	B
S-1B R1	03.04	Bar Schedule Retaining Wall	B
S-03 R1	10.04	Floor and Roof Shuttering EFO	A
S-04 R2	28.04	Bar Schedule Column, Footing, Dowels	A
S-05 R1	18.04	Reinforcement Schedule & Formwork for Roof Shuttering - Public Toilet	B
S-06 R2	02.05	Reinforcement Schedule & Plan Shuttering Guard House	B
S-07 R1	25.04	Bar Schedule For Footings Ancillary Bldgs. R1 & R2	A
S-07	26.05	Formwork of Grade Beam, Canopy Beam, Column and Column Footing Base	Pending
S-08 R1	02.05	Bar Schedule Grade Beams, Canopy Beam and Canopy Slab	A
S-11	26.05	Reinforcement Schedule of Septic Tank, Soak Well, Inspection Pit M.H. Cover	C

8.0 Financial

	<u>Invoice</u>	<u>Payment</u>
Material Payment I4-01	Tk. 14,06,400.00	Tk. 14,06,400.00
Mobilization Advance -	8,53,391.12	<u>Tk. 8,53,391.12</u>
		Tk. 22,59,791.12

9.0 General

The Contractor's planning requires improvement. They have excavated the entire trench for the retaining wall without providing shoring or protective measures. Heavy rains and high tide have caused cave-ins. Contractor directed to fill in trench and protect existing building from damage due to his operation.

There were 7 days of rain (21 working hours) during month.

CONSOLIDATED MATERIALS TESTING REPORT

Project: Fertilizer Warehouses Phase III

For the month May 1984

Site : Chandpur

Material/Test	Spec. No.	No. of Tests	No. Approved	No. Dis-Approved	Remarks/Requirement
A. Select Fill	2E.01-a	20	9	11	Requires F.M. greater than 1.5 and less than 5% passing sieve No.200
B. Concrete Sand	3A.02-b.1	2	0	2	
C. Mortar Sand	4A.03	4	3	1	2.5 part Sylhet sand blended with 1 part local sand.
D. Plaster Sand	9B.02	2	2	0	Minimum F.M.=1.6
E. Bricks: Frogmark: AKB	4A.02	1	1	0	Requires sorting at site
F. Ordinary Fill	2E.01-b	3	3	0	
G. Laboratory compaction test: Select Fill	2E.01	1	-	-	To determine maximum dry density
H. Field Density Tests: Select Fill	2E.01	43	37	6	90% and 95% MDD
			<u>No. of test at</u> <u>7 days 28 days</u>		
I. Concrete: Compressive Strength Test	3A.03 3A.05	19	28		Min. required strength is 3000 PSI at 28 days



9-6-84

Project : I4-Chandpur.

Subject : Program of Warehouse for the month of June, 1984.

<u>Items</u>	<u>Program / Progress</u>
1. Cast peripheral footings of Grid: $\frac{A}{2-6}$ & $\frac{B-D}{1}$ (8+4) :	8/6/84
2.a) Compact Selectfill for Grade Beam in Grid E (South) :	8-10/6/84
b) Compact Selectfill for Grade Beam in Grid A-E (West). :	11-12/6/84
3.a) Re-bar and formwork for GB in Grid E(South) :	11-13/6/84
b) Check & Approve :	14/6/84
c) Pour concrete :	15/6/84
4.a) Re-bar & formwork for GB, A-E (West) :	13-14/6/84
b) Check & Approve :	15/6/84
c) Pour concrete :	16/6/84
5.a) Compact Selectfill for GB in Grid A(North) :	13-14/6/84
b) Compact Selectfill for GB in Grid A-E(East) :	15-16/6/84
6.a) Re-bar & formwork for GB in Grid A(North) :	15-17/6/84
b) Check & Approve :	18/6/84
c) Pour concrete :	19/6/84
7.a) Re-bar & formwork for GB in Grid A-E(East) :	19-21/6/84
b) Check & Approve :	22/6/84
c) Pour concrete :	23/6/84
8. Compact plinth by Selectfill upto bottom of interior column footings :	
a) Area bonded by Hatch line :	17-22/6/84
b) Remaining portion upto top of G.B's :	24-26/6/84
9.a) Re-bar & formwork for Interior col. footings & shearwall footing. :	23-25/6/84
b) Check & approve :	26/6/84
c) Pour concrete :	27/6/84

Contd. ... P/2.

<u>Items</u>	<u>Program / Progress</u>
10. Re-bar in cols. and form for kickers i/c pouring concrete.:	
a) In Grid E (South)	: 18-19/6/84
b) In Grid A-E (West)	: 20-21/6/84
c) In Grid A (North)	: 22-23/6/84
d) In Grid A-E (East)	: 24-25/6/84
11. a) Formwork for cols. in Grid E(South) upto 1st lift.	: 20-22/6/84
b) Check & Approve	: 23/6/84
c) Pour concrete	: 24/6/84



Note : Any deviation from the program must be recorded date-wise with valid reason.

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INVITATION NO.9 : 05-PARBATIPUR

CONTRACTOR : The Elite Engineers Ltd.

Total Contract Price : Tk.1,70,02,196.40

Change Orders : Tk.

Revised Contract Price : Tk.1,70,02,196.40

Payments To Date : Tk.

Retention To Date : Tk.

L/Com. No. : 388-002411

Date of L/Com. : 31.01.84

Issue Date of L/Com. : 23.02.84

Amount of L/Com. : Tk.1,70,02,196.40
(\$683,759.00)

Letter of 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 : 23.02.82

Scheduled Completion: 31.12.84(312)

Elapsed Time: 99 days 31.7%

% Completion			
Scheduled		Actual	
This Period	To Date	This Period	To Date
10%	32%	0%	17%
Work	:	6%	14%
Material	:	-(6%)	3%

1.0 Key Site Personnel

Engineer : Sr. Field Engineer - M.A. Hannan
Inspector - N. Islam
Asst. Technician - S. Rahman

Contractor : Project Engineer - M. Rahman
Site Superintendent - G.M.R. Alam (Part Time)
Asst. Site Superintendent - G. Mostafa

2.0 Contractor's Activities

	<u>This Period</u>	<u>To Date</u>
A. Site Development	5%	28%
A1 Mobilization & Demobilization	10%	50%
. Brick soling portion of access road (12'x 139') in vicinity Sta. 10+00		
. Brickwork in EFO above 1st floor in progress. Pouring of concrete 1st floor slab. Pouring concrete base for wood posts.		
. Adding one room (10'x 20') to temporary laborers shed.		
. Steel wheel roller brought to site at 1700 hours on 30.05.84.		
A2 Preparation of Site	0%	70%
A4 Excavation		
Excavation for 100 rft boundary wall on south.		

A6 Filling with Imported Material (Select Fill)	30,000 cft	160,000 cft
. Select fill godown area to Elev.116.10 on east side and 116.05 on west.	7%	35%
. 7th layer (Elev.110.11) select fill placed and compacted in R2 and R3 area.		
. 1st layer select fill placed in R1 floor area.		
A10 Boundary Wall Type A	360 rft	450 rft
. 450 rft completed to coping level	8%	11%
A16 Public Toilet	5%	30%
. Brick work upto roof level.		
C. Ancillary Buildings	3%	5%
R1: C1 Brick flat soling		100%
C2 Plain Concrete Fdn. (except floor slab)		100%
C3 Brickwork to P.L.		100%
C4 Damp proof Course		50%
C5 Brickwork above P.L.		On going
C6 R.C. Column		On going
C9 Reinforcing Steel		On going
R2: C1		100%
C2		100%
C3		100%
D. Water Supply, Sanitary and Plumbing		2%
D8 Septic tank		
. Brick work of Type A (one) septic tank complete R2 and R3 building		
. One Type B septic tank completed and public toilet constructed with cover.		
D9 Soak Well		
. Three under construction.		
2.1 Approved Materials On-Site		
Portland Cement	- 32 ¹ / ₂ ton	
Reinforcing Steel	- 25 ton	
Bricks, 1st Class	- 40,000	
Boulders	- 2,500 cft.	
Sand, Coarse	- 5,500 cft.	
Select Fill	-	
Ordinary Fill	-	
Mortar Sand	- 3,800 cft.	
Lumber (Woodwork)	- 80 cft.	
Lime	- 30 bags	
C.I. Sheet	- 13.25 bundles	

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2.2 Major Equipment On-Site

- 1- Concrete Mixer
- 1- Concrete Mixer (hopper broken)
- 1- Water pump (Diesel)
- 1- Water pump (Electric)
- 2- Vibrators (Electric)
- 1- Vibrator (Diesel)
- 1- Tractor with trailer
- 1- 1350 kg steel roller
- 1- 10T steel roller on site on 30.05.84 (1700 hrs)

3.0 Problems and Delays

- . Boundary line in the north side still in dispute.
- . No heavy compacting equipment on site except on 31.05.84.
- . Manual laborers for compaction insufficient and not organized.
- . Insufficient number of masons on project.
- . No daily/weekly work schedule available on site.
- . Lack of management and planning.
- . Non-submittal of working (shop) drawings.

4.0 Action Required

- BADC : . Arrange with BR removal of condemned railway wagons and rails from the siding alignment.
- . Remove existing boundary wall and latrine
 - . Arrange land from BR as per siding layout.
 - . Arrange for incoming electric power line.
 - . Finalize location of boundary wall on north.
 - . Approve insurance policy.
 - . Action on claim for time extension.
- Contractor : . Submit shop drawings.
- . Complete Engineer's Field Office.
 - . Submit Schedule of Events.
 - . Submit concrete mix design.
 - . Submit sequence of construction of embankment construction and surcharge preloading and its removal and disposal prior to starting work. (Section 2Z)
 - . Comply with contract documents.
 - . Submit time vs. percent completion schedule
 - . Submit monthly progress report.
 - . Submit construction photographs

5.0 Claims

Time extension due to late issue of Letter of Commitment (Notice To Proceed).
PBT/433, 11.3.84.

6.0 Work Schedule for Next Month

<u>Event</u>	<u>Time Estimate</u>	<u>Scheduled</u>		<u>Actual</u>	
		<u>Start</u>	<u>Finish</u>	<u>Start</u>	<u>Finish</u>
Engineer's Field Office	45	01.03	14.04	Incomplete	
Boundary Wall	150	01.04	30.06	On-Going	
		01.11	31.12		
Guard House	45	01.04	15.05	Not Started	
Public Toilet	45	01.04	15.05	Incomplete	
Select Fill (Godown)	45	01.03	14.04	Incomplete	
Surcharge Loading	15	15.04	30.04	Not Started	
Surcharge Period	90	01.05	30.07	Not Started	
Ancillary Buildings					
R1, R2, R3:					
Fdn. Excavation	18	03.04	20.04	R3 Not Started	
C.C. Foundation	15	06.04	20.04	do	
Brickwork to P.L.	21	10.04	30.04	do	
Conc. Column to P.L.	25	05.04	30.04	R2/R3 Not Started	
Brickwork to lintel	16	20.04	05.05	Not Started	
Lintel/Sunshade	16	25.04	10.05	do	
Brickwork to 1st floor	11	05.05	15.05	do	
Stairing to 1st Floor	15	01.05	15.05	do	
1st Floor Slab Beams	16	15.05	30.05	do	
Brickwall to 1st Floor Lintel	15	01.06	15.05	do	
1st Floor Lintel & Sunshade	10	14.06	23.06	do	
Brickwork to Roof	10	22.06	01.07	do	
Stairing to Roof	35	01.06	05.07	do	

7.0 Shop Drawings

<u>Drawing No.</u>	<u>Date</u>	<u>Title</u>	<u>Action</u>
		Rebar Schedule Engineer's Field Office	B
		Drawing For Fixing Wooden Beams	B
PBT-8		Beam Joint Details for EFO	B
R1/SPD-1	15.04	Footing, Column, Stair, Porch, Louvers	B
R1/SPD-2	15.05	Floor slab, roof slab, stair roof slab R1 Public Toilet roof slab	-
R/SPD-3	-.05	Lintel and Sunshade (Rebar Detail)	C
R/SPD-4	-.05	Floor Slab, Roof Slab & Stairing R2	-
R/SPD-5	-.05	-do- R3	-
16/Elec	29.05	Electric Public Toilet	C

8.0 Financial

	<u>Invoice</u>	<u>Payment</u>
Material Prepayment	Tk. 14,96,000	Tk. 14,96,000

9.0 General

The Employer was informed (1897, 31.C5.84) that in the opinion of the Engineer, the Contractor cannot at their present level of effort complete the construction work within the contract time limit. The Engineer established certain construction completion targets to be completed by 30 June 1984. The Engineer has recommended if the targets are not met that the Employer consider taking action under Clause 63 of Conditions of Contract.

The Engineer's records do not confirm the statements made by the Contractor in his monthly progress report (attached). For example under Item 3 the Project Director was on-site 5 days, the Project Engineer 17 days, Site Superintendent 15 days and A.S. Superintendent 14 days (2 persons on one day). The labor force is inflated and does not reflect the laborers actually on-site during the reporting period. It is quite obvious if the contractor had as many laborers as reported that they were inefficient due to lack of management or else more work could have been accomplished.

The steel roller (heavy) noted under Item 4 arrived at site at 1700 hours on 30 May. It is apparent that the 63 working hours reported for the month is a gross over-statement. As noted, under Item 7, shortage of heavy compactor remains a bottleneck.

The small steel roller working hours is in the range of 170 hours not 325 hours. This equipment was out-of-order and/or did not operate during the month. 325 hours represents 43.6% of total available hours (31x24 = 744 hours).

Note: Calculation for percent completion for ancillary buildings. Quantities are approximate and are not final measurement for payment.

<u>Item</u>	<u>This Period</u>	<u>To Date</u>		
C1	696 sft (14%)	1393 sft (29%)	.0102	0.30
C2	211 cft (14%)	493 cft (33%)	.0473	1.56
C3	550 cft (13%)	1470 cft (36%)	.0625	2.25
C4	75 sft (13%)	75 sft (13%)	.0024	0.03
C5	800 cft (7%)	800 cft (7%)	.1754	1.22
				5.36%

CONSOLIDATED MATERIALS TESTING REPORT

Project: Fertilizer Warehouses Phase III

For the month May 1984

Site : Parbatipur

Material/Test	Spec. No.	No. of Tests	No. Approved	No. Dis-Approved	Remarks/Requirement
A. Select Fill	2E.01-a	2	0	2	Requires F.M. greater than 1.5 and less than 5% passing sieve No.200
B. Concrete Coarse Aggregate	3A.01-b.2	1	0	1	
C. Field Density Tests: Select Fill	2E.01	50	32	18	90% and 95% MDD
					<u>No. of test at</u> <u>7 days 28 days</u>
D. Concrete: Compressive Strength Test	3A.03 3A.05	8	18	1(3)	Min. required strength is 3000 PSI at 28 days

WARE HOUSE PHASE III

31ST MAY 1984

INVITATION NO. 09

SITE-05 PARBATIPUR.

CONTRACTOR - THE ELITE ENGINEERS LTD.

1. GENERAL STATEMENT OF PROGRESS

- i) 50% Brick work for R1 up to window sill level and Brick work up to D.P.C. level.
- ii) Flat soiling plain concrete of ANC. Building R2 completed and brick work for foundation under progress.
- iii) Brick work for E.F.O up to lintel level of first floor of west wall 2'-0" height of North and South wall above roof level.
- iv) R.C.C. Slab, Wooden post Beams all fixing complete of Engineers Field Office except wooden post of Stair case.
- v) Brick work for public toilet completed up to Roof level except middle wall.
- vi) Lintel casting of Public Toilet.
- vii) Select filling on Godown Area 12th layer under Progress and ANC. Building Area 8th layer Completed.
- viii) R.C.C. Slab Complete for Septic Tank near E.F.O.

2. FINALCIAL

Amount invoice to date - Invoice No. - 1 Tk. 14,96,000.00
 Payment to date - Tk. 14,96,000.00

3. MANPOWER RETURN.

<u>Sl.No.</u>	<u>Trade</u>	<u>Nos.</u>	<u>Working Hours Days.</u>	<u>Working Hrs.</u>	<u>Total Hrs.</u>	<u>Remarks</u>
1.	Project Director	1	21	8	168	
2.	Project Engineer	1	31	8	248	
3.	Site Suptd.	2	31	8	496	
4.	Accountant	1	31	8	248	
5.	Cashier	1	31	8	248	
6.	Work Supervisor	4	31	8	992	
7.	Store Keeper	1	31	8	248	
8.	Foreman	1	31	8	248	
9.	Operator	2	31	8	496	
10.	Driver	2	31	8	496	
11.	Security Guard	6	31	8	1,488	

Contd. Page No. 2.

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PROGRESS CHART

<u>Sl. No.</u>	<u>Description</u>	<u>Date of Completion as per Schedule</u>	<u>Percentage of Com.</u>	<u>Days Required for Completion.</u>
1.	Mobilization	10-3-84	100%	-----
2.	Preperation of Site	22-4-84	96%	7 days.
3.	Engineers Field Office	21-4-84	65%	28 days.
4.	Boundary Wall	31-12-84	20%	No more Excavation due to Rainy season and rise of water level.
5.	Public Toilet	10-5-84	70%	27 days.
6.	Select Filling a Godown Area	15-4-84	95%	14 days.
7.	Filling on Railway Embankment	30-7-84	10%	Stoped the Filling due to Surcharge loading.
8.	Filling on A.M.C. Building Area	30-4-84	40%	R1 ---- 20 days R2 ---- 30 days R3 ---- Under rain water.
9.	Sanitary	31-12-84	4.90%	209 days.
10.	A.M.C. Building R1 R2	30-11-84 30-11-84	5% 1%	210 days.

[Signature]
7/6/84

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Period from - 1-6-84 To 30-6-84.

Descriptions	Percentage of Completion	Time Estimate	Schedule		Actual		Remarks
			Start	Finish	Start	Finish	
Preparation of site	3%	7 days	1.6.84	20.6.84	—	—	
Excavation	2%	7 days	21.6.84	30.6.84	—	—	Stripping on Railway truck (M. Gauge) 100'-0" complete. Excavation fore Boundary wall 150'-0"
Collection of materials	2%	27 days	3.6.84	30.5.84			Select fill - 20000 cft Bricks - 100000 nos. Cement - 400 Bags. Wood - 200 cft. Wire - 50 Bags.
Engineer's field office	30%	29 days	Continue	29th			100% Complete and handover to Consultant on 30th June 84
Public Toilet	25%	27 days	30	27th			B/W. fore middle wall and roof Complete.
Select fill on Godown Area	5%	14 days	30	14th			100% Complete Select fill.
Pre-load	50%	15 days	16th	30th			Surcharge Completed up to 4'-0" Complete Godown area.
Select filling on Roadway	5%	7 days	Continue 21.6.84	30th			Select filling Roadway 90'-0" Complete near Engineer's field office B. Gauge.
Select-filling on KC Bldg.	3%	5 days	20th	25th			Filling on R2 & R3 Area 2nd layer Completed.
Septic tank & sock well.	1%	10 days	20th	30th			Roof Casting fore sock well & filling on sock well.
R1 -	10%	26 days	Continue	26th			R1 - D.P.e Complete and all B/W up to window sill level.
R2 -	25%	30 days	30	30th			R2 - Complete up to lintel level.
R3 -	2%	5 days	25th	30th			R3 - All Brick work Complete up to D.P.e level.
Boundary wall	6%	30 days	Continue	30th			130'-0" B/W Complete up to F.F. level 100'-0" Excavation and e.e. Completed.

Received on 02/06/84

05-10

G. M. Lubial Amin
Site Suptd.
29.5.84.
for File Elite Engineers etc

31 May 1984

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

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

The Engineer has made his assessment of Contractor's claim and submitted a report to BADC. (724-4.1.1/1754, 13.05.84).

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	- \$ 1,137,350
% Expenditure to Total Contract Budget	- 50.3%

PROGRESS

Elapsed Contract Time	- 539 days
Remaining Contract Time	- 395 days
% Elapsed Time	- 57.7%

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 - 17.74 months

* 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	16.40
Harry S. Allen	- Chief Construction Engineer	25	13.44
C.N. McCormick	- Foundation Engineer	11	9.67
-	- Structural Engineer	6	4.91
Y.O. Kim	- Project Engineer	16	3.09

3. Contract Administration

- . Submitted resume of candidate for position of Chief Construction Engineer. Position vacant since 13 May.
- . USAID extending Project Assistance Completion Date (PACD) to July 28, 1986 (AID Letter No.671, 03.05.84)

4. Meetings

- . Consultant's periodic staff review meetings.
- . Meetings with construction contractors.
- . Progress Meeting USAID/BADC/Engineer in office of Chairman, BADC on 20 May.
- . Meeting with Chief Engineer (C)

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5. Supporting Bangladeshi Personnel

5.1 WEL and SSL Personnel (Sub-Contract)

<u>Designation</u>	<u>Man-Month</u>	
	<u>Allocated</u>	<u>Utilized</u>
Deputy Project Manager	27	16.8790
S&M Engineer	24	19.2728
Structural Engineer	9*	9.0388
Architect	4	3.8389
Electrical Engineer	6	6.0000
Railway Engineer	24	14.9089
Office Engineer	26	16.8656
Land Procurement Officer	18*	14.1366
Surveyor	25	15.7072
Instrument Man	25	15.5664
Rodman	25	9.8222
Chainman	25	15.3191
Draftsman	69*	49.9434
Laboratory Technician	56	32.4325
Laboratory Assistant	56	18.7531
Estimator	48	21.8943
Senior Field Engineer	60	27.7146
Field Engineer	80	15.0463
Inspectors	128	26.4747
Drivers	94	12.4984
Messenger	34	-
Peon	34	-
Guard	68	-
Clerk	34	-
Typist	34	-

5.2 Administrative Personnel

Administrative Manager	27	17.2324
Senior Accountant	27	17.5844
Assistant Accountant	44	16.0156
Secretary	27	17.5368
Printer	27	15.9069
Typist	72	43.6417
Clerk	45	20.5575
Drivers	103	65.6648
Messenger	45	14.8160
Peon	72	44.5433
Guard	90	75.7518
Radio Operator	48	-
Office Superintendent/Asst.Accountant	34	4.3478

* Adjusted

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II. Consultant's Activities

6. Project Expenditures

(Estimated Project Cost Incurred)

<u>Item</u>	<u>Agreement Budget</u>	<u>Adjusted Budget</u>	<u>This Month</u>	<u>Cumulative</u>
Services in Bangladesh	\$ 746,188	\$ 790,172	\$ 27,877	\$ 457,285
Services in Home Office	176,178	176,178	-	133,499
International Travel, etc.	85,740	85,740	-	19,480
Housing Allowances, Per Diem etc.	91,075	102,775	1,380	57,415
Logistic Costs	223,400	223,400	3,401	84,333
Supporting Staff	382,404	387,842	9,384	142,058
Misc. Direct Costs	43,000	43,000	78	9,145
Fixed Fee	205,460	205,460	7,610	136,980
	<u>\$1,953,445</u>	<u>\$ 2,014,567</u>	<u>\$ 49,730</u>	<u>\$ 1,040,195</u>
Percent of Estimated Budget			2.47%	51.63%
Percent Contract Time (To 30.06.85)				57.71%
Special Project Activity	\$ 306,620	\$ 245,498	\$ 352	\$ 97,155
	<u>\$2,260,065</u>	<u>\$ 2,260,065</u>	<u>\$ 50,082</u>	<u>\$ 1,137,350</u>
	=====	=====	=====	=====

7. Billing and Payment

<u>Invoice</u>	<u>Period Ending</u>	<u>Billing</u>	<u>Payment</u>
01-13	29 February 84	\$ 899,816.04	\$ 895,645.86
14	31 March 84	\$ 62,865.71	Under Process

8. Reports

. Monthly Progress Report No.17 for April 1984 submitted by
letter /1751, 12 May 1984.

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C. TECHNICAL

1. Summary of Consultant's Activities During This Month

- 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.
- Installing radio communication network.
- Issued field message giving directions to contractors as required.
- Follow up on compliance with field messages.
- Prepare instruction for Contractors and Engineers personnel guidance in control of work and materials.
- Prepare and submit Monthly Progress Report.
- Kept Manager (Storage) BADC informed of obstructions and other problems at site.
- Held scheduled meetings with each of the 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.
- Monitoring resolution of site possession and removal of obstructions.
- 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.
- Calibrated all compression testing equipment by Central Testing Laboratory.
- Reviewed contractors' proposed preloading sequence and subsequent material utilization plans.

- Reviewing performance of field staff.
- Monitoring settlement platforms at sites surcharged.
- Monitoring elevations of completed construction at all sites.
- Processing contractors' claims.
- 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
 - . Review the design, effectiveness, and founding elevation of soak wells at each site
 - . Review with BADC the location of access to Chandpur site.
 - . Review design of tally office in light of experience on Phase II
 - . Continue monitoring results of settlement platforms
 - . Review BOQ and determine overruns and/or underruns.
 - . Assist contractor at Lakshmipur to develop sequence of paving operations so not to hinder off-take/on-take of fertilizer.
 - . Realign R3 ancillary building at Dohazari for clearance between future high tension power line.
 - . Monitor fill settlement at ancillary building location at Dohazari and Chowmuhani
 - . Chandpur Site: Relocate R2 and R3 buildings; prepare Change Order for revise foundation (lean concrete mat) for R1 building; design bridge, submit cost estimate, and upon approvals negotiate cost with contractor and prepare change order; prepare change order for additional boundary wall replacing existing wall. Review Contractor's construction procedure for retaining wall.
 - . Review contractor's sequence of embankment and surcharge construction at Chowmuhani and Parbatipur.

2. Railway Siding

The siding layouts for Jamalpur and Parbatipur have been approved by BR. BADC to obtain copies of the approved drawings from BR and send to Engineer for record.

Follow up by BADC on approval by BR of Kishoreganj siding.

BADC to request BR to take action for removal of box cars carriages etc. from portion of alignment of the proposed siding to enable the Contractor to do the embankment work uninterrupted. The following are to be removed:

i. For the unused meter gauge track

Wagon - 2 nos.
Wheel and axle - 15 nos.
Carriage under frame - 2 nos.
Boulders stack - 10 ft. away from the center of track
Rails lying without ties.

ii. From the ditch in the alignment of proposed Broad Gauge Track

Wagons - 3 nos.
Carriage under frame - 7 nos.
Wheel and axle - 6 nos.

BADC to conform with BR whether the abandoned structure to the south of the take-off point of the meter gauge siding shown on BR's drawing No.S&D 39/83/PXC will be dismantled. If not, an adjustment in location of siding will be necessary.

Railway Engineer assisted the surveyors in laying out the centerline of tracks at Jamalpur and Kishoreganj.