

Zila Roads Maintenance and Improvement Project,
(USAID PROJECT NO. 388-0056);

PROGRESS REPORT

FOR THE MONTH OF
APRIL '1985

By

Wilbur Smith and Associates

In association with

Bangladesh Consultants Ltd.

and

Public Administration Service

ZILA ROADS MAINTENANCE AND IMPROVEMENT PROJECT

USAID PROJECT No. 388-0056

PROGRESS REPORT
April 1985

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LIST OF ABBREVIATIONS AND DEFINITIONS

List of Abbreviations

AIT	=	Asian Institute of Technology
AE	=	Assistant Engineer
BCL	=	Bangladesh Consultants Limited
BDG	=	Bangladesh Government
CMLA	=	Chief Marshall Law Administrator
DE	=	District Engineer,
FM	=	Fineness Modulus
GOB	=	Government of Bangladesh
HBB	=	Herring Bone Bond
IRWP	=	Intensive Rural Works Programme
LGEB	=	Local Government Engineering Bureau
PM	=	Project Manager,
PAS	=	Public Administration Services
PIL	=	Project Implementation Letter
P & D Engineer	=	Planning and Design Engineer
R & H	=	Roads And Highways
RE	=	Resident Engineer
RB	=	Running Bill
RCC	=	Reinforced Cement Concrete
ROW	=	Right of Way
SRWP	=	Special Rural Works Programme
SAE	=	Sub-Assistant Engineer
USAID	=	United States Agency for International Development
UNO	=	Upazila Nirbahi Officer, (senior most Administrative Officer in Upazila)
WSA	=	Wilbur Smith and Associates
WBM	=	Water Bound Macadam
WDB	=	Water Development Board
XEN	=	Executive Engineer
ZRMI	=	Zila Roads Maintenance And Improvement Project
ZP	=	Zila Parishad

Definitions

KHOA	=	Brick aggregate
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ZILA ROADS MAINTENANCE AND IMPROVEMENT PROJECT

USAID PROJECT NO. 388 - 0056

PROGRESS REPORT

April 1985

1.0 GENERAL

In this report, the format has been altered once again. In response to criticism that the report was getting too bulky, it was decided to take both the maintenance and the construction photos out of the main report and bind them together as a separate volume, to be known as Appendix I. The other portions, which had previously also been known as Appendices, will still remain in the main body of the report and will be called Attachments. It is hoped that this new format will both reduce the volume of the main report as well as improving the reports "readability." Comments from the readers will be appreciated.

All three districts have again reported that general progress rate and contractor performance are improving. Rangpur District reports some problems with poor contractor performance, but that such instances are in the minority.

The overseas training program is now approaching a critical flag date. There is only one month left to submit the list of approved candidates to the proper authorities for final approval and clearance. If the second AIT training course in Bangkok, Thailand is to start on schedule, it is imperative that the critical flag dates be observed.

The Specifications and Design Engineer completed his work and departed the post at the end of this reporting period. Since he was revising and updating a report which had been submitted in draft form more than one year ago, his report is considered to be in final form and is now being printed for distribution.

2.0 ORGANIZATION AND MANAGEMENT

There still have been no comments on the first draft report, which was submitted at the end of 1983. If the scheduled mid-year printing date for the final report is to be maintained, then the Consultant must now start the final editing of this document.

3.0 MAINTENANCE SYSTEM AND SUPERVISION

3.1 General

The reduced maintenance budget is still causing some concern to the RE's. However, Faridpur reports that, with the release of the revolving maintenance fund, work was again proceeding on two of the maintenance projects. Rangpur reported that maintenance activity during this reporting period was limited to the stockpiling of materials. Sylhet reported that the quality of maintenance work was quite adequate, but that the mental attitude of those in charge of maintenance was adversely affected by the shortage of maintenance funds. More precisely, the maintenance personnel have assumed that the end of the available maintenance funds means the end of the maintenance effort. No attempt is being made to plan ahead and to develop an ongoing maintenance program.

The roads involved in the district maintenance programs are shown on the respective (old) District maps, which are identified as follows :

- o Exhibit II - Sylhet District
- o Exhibit V - Rangpur District
- o Exhibit VIII - Faridpur District

Photographs of maintenance activities in all three Districts may be found in Appendix A.

3.2 Sylhet District

3.2.1 Sylhet Maintenance Projects

Hatinganj - Dhakadakshin Road - Earth

Routine maintenance work has been curtailed, and the placement of three pipe culvert installations has been postponed for lack of funds.

Badaghat Road - Mixed

The repair and maintenance of the paved section had been completed to within 250 m of the river crossing at Badaghat. This section was purposely left incomplete awaiting the arrival of the USAID evaluation team, so that the team could see an example of "Before" and "after". The in-house maintenance staff has been transferred to another location for the time being.

Shahbondar - Shamsherganj Road - Paved

This maintenance project has been canceled for lack of funds.

Munshi Bazar - Kamalganj - Kurmachar Road - Earth

Maintenance has progressed for 13 km and is now approaching the adampur growth center. It should be noted that 2 km, in the area of the Upazila Headquarters, will be improved by R. &H.

Bahubal - Putijuri - Bijnaghat Road - Mixed

This earth road maintenance work is a very good example of the results that can be obtained with proper orientation and guidance of the work crew. Prior to the start of this work, there was bus service only to Putijuri. Now there is scheduled bus service all the way to Paniunda, some distance beyond Putijuri. Routine maintenance of this earth roadbed includes filling the depressions created by the heavier traffic, and the refilling of the high bridge approaches.

Nabiganj - Baniyachung Road - Earth

Preventive maintenance had been completed to km 5.5, but because of lack of funds, no work has been done past that point. Remedial work should be performed on the completed portion, as the increase in heavier traffic has resulted in some undulation and depressions, and the settlement of a pipe culvert backfill.

Sunamganj - Chhatak Road - Earth

Even though traffic flow over this road is impossible, preventive maintenance effort is still being expended from the Sunamganj end.

Shahbag - Kanairghat Road - Paved

During this reporting period, pavement conservation work was started using aggregates collected by the Zila Parishad staff. The work had progressed about 0.8 km when it was decided that the aggregates being used were unsuitable for this type of work. However, the SAE insists on using this type of material because he thinks that the specified material is too costly. It is very shortsighted to consider only the initial cost, for repeated repairs will be required if improper materials are used in the initial effort. The SAE also reports that the emulsion asphalt being tested here is not giving satisfactory results.

Fenchuganj - Maijgaon Road - Paved

There was no further activity on this road during this reporting period.

Tajpur - Syedpur - Nayabondar Road - Earth

All work, both by FFW Program personnel and by Zila Parishad personnel, has come to a halt. Fill recently placed by FFW had

been poorly graded. Recent rains have helped to consolidate the earthwork, and local traffic is accomplishing some compactive effort. However, the maintenance crew should be leveling and cambering the road surface at this time.

3.3 Rangpur District

3.3.1 Rangpur Maintenance Projects

Rangpur - Mahiganj Road

No work was done during this reporting period. The original estimated length of this project was 6,223 ft, but actual work to date covers only 3,582 lin. ft.

Rangpur - Badarganj Road

No work was done during this reporting period. The original estimated length of this project was 9,500 ft, but actual work to date covers only 2,693 lin. ft. This was the most heavily damaged portion, and some Tk. 191,810 has been spent to repair it. The remainder requires principally shoulder repair, and the cost should be low.

Mahiganj - Damdama Road

No work was done during this reporting period. strong winds and heavy rainfall have damaged the work that has already been done.

Mirganj - Jaldhaka Road

Work has been started with the patching of some small potholes and asphalt "painting".

Rangpur - Sundarganj Road

Shoulder improvement work was started during this reporting period.

Rangpur - Kaliganj Road

No work was done during this reporting period.

Barodarga - Bhendabari Road

No work was done during this reporting period.

3.4 Faridpur District

3.4.1 Faridpur Maintenance Projects

Talma - Nagarkanda Road

One bituminous pavement repair crew is working on the Nagarkanda end and is making satisfactory progress. A shoulder repair crew is also working on this road.

Pukuria - Sadarpur Road

Work on shoulder and bridge repair has been started on this road. Pavement repair equipment has been moved from Rajbari, but has not yet been put to work. There is a labor shortage in this area, as the FFW Program is apparently paying a higher rate than the Z.P. However, paving repairs should start about mid-May.

3.5 Maintenance Management

Comments on the draft maintenance management report still have not been received. Since this report was submitted in January 1985, sufficient time has elapsed to justify the assumption that there are no comments of any serious consequence. Therefore, the final printing of this report will be planned for the latter part of June 1985.

4.0 PREPARATION OF TECHNICAL SPECIFICATIONS

The final drafts of the specifications manual and the design manuals were completed and submitted at the end of this reporting period. Since these are revised drafts, no further comments will be awaited. It is planned that the final printing of these reports will be accomplished by the end of June 1985.

5.0 TRAINING

5.1 General

As shown on Exhibit I, the overall progress of the ZRMI Project Training Program, as of the end of this reporting period, was about 82 percent, compared to a scheduled progress of 94 percent. This slippage reflects a continuing lack of progress in the U.S.A/Third Country Training element, which has a relative weight of about 25 percent of the entire program. At the present rate of achieved progress, it is estimated that achieved progress will be about 85 percent on 30 June 1985.

5.2 On-The-Job Training

5.2.1 General

Progress in this major activity, which represents about 15 percent of the total project, is estimated at 94 percent at the end of this reporting period.

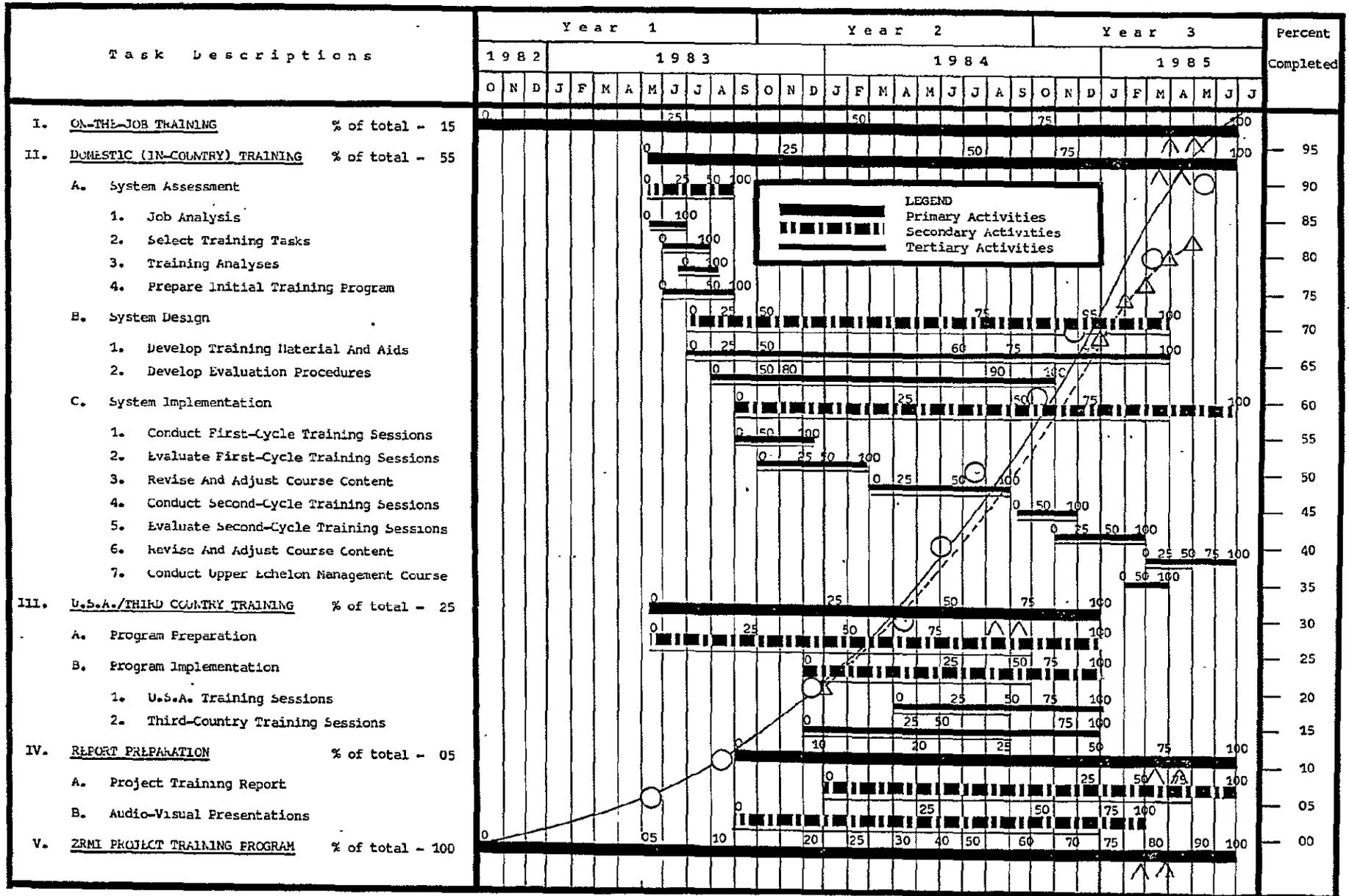
5.2.2 District Soil Laboratory Activities

Summaries of the activities of the individual district soil laboratories are included as Attachment A of this report.

5.2.3 Maintenance Training

All of the District RE's, and their respective staffs, constantly strive for transfer of knowledge in their daily contacts with not only the XEN's, and their staffs, but with the contractors as well. For the most part, the benefit from such practices is reflected in improved quality control and contractor performance.

Exhibit I - ZRMI PROJECT TRAINING PROGRAM SCHEDULE AND CURRENT STATUS



5.3 Domestic (In-Country) Training

5.3.1 General

As shown on Exhibit I, progress in this basic activity, which represents about 55 percent of the total project, was about 92 percent. the principal retarding factor here is the lack of progress in the management course. This is discussed in a subsequent paragraph of this section.

5.3.2 System Assessment

This secondary activity is 100 percent complete.

5.3.3 System Design

This secondary activity is 100 percent complete.

5.3.4 System Implementation

This secondary activity is about 88 percent complete.

First-Cycle Training Sessions - 100 percent complete

First-Cycle Evaluations - 100 percent complete

(First) Course Revision And Adjustment - 100 percent complete

Second-Cycle Training Sessions - 100 percent complete

Second-Cycle Evaluations - 100 percent complete

(Second) Course Revision And Adjustment - 50 percent complete.

Upper Echelon Management Course - This course has been suspended indefinitely

5.4 U.S.A/Third Country Training

5.4.1 General

At the end of this reporting period, progress on this activity, which represents about 25 percent of the total program, was about 74 percent.

5.4.2 Program Preparation

This secondary activity is about 89 percent complete. The second AIT session is planned to begin 30 June 1985. However, no BDG approvals and clearances have yet been obtained. Until such approvals are in hand, it cannot be said that this course will indeed take place as planned.

A tentative agreement has been reached that the second U.S.A training/observation course will consist of three LGEB officials, with individual trip lengths varying from One to two months. With this agreement, it is now possible to begin preparing the course to take place in Late August or early September.

5.4.3 Program Implementation

This secondary activity is about 60 percent complete.

First U.S.A. Training/Observation Session - Considered to be 100 percent complete, although no trip reports have been received.

Second U.S.A. Training Observation Session - Tentatively scheduled that three participants will depart for the U.S.A. in late August or early September.

Second AIT Session - A revised schedule of flag dates has been prepared, the most critical one being 01 June 1985, the date that clearance from CMLA should be in hand.

5.5 Report Preparation

5.5.1 General

This primary activity is about 78 percent complete.

5.5.2 Project Training Report

This secondary activity is back on schedule and is about 80 percent complete. The first draft will be submitted in May 1985, and the final copy is planned for the end of June 1985.

5.5.3 Audio-Visual Presentations

This secondary activity remains at about 70 percent complete. It is still planned that all slide/cassette presentations will be completed in late May or early June 1985.

6.0 CONSTRUCTION SYSTEM AND SUPERVISION

6.1 General

All three districts have reported good progress for this reporting period, although unseasonable rains have slowed the work to some extent. Sylhet reported heavy thunderstorms on 21 of the 30 days, while both Rangpur and Faridpur reported lower rainfall frequencies.

Rangpur reports that the differences of opinion that exist between the XEN and the RE are reflected in a lowering of the quality of work by some contractors. However, the majority have continued in a spirit of cooperation and are trying to do quality workmanship.

Photographs of construction activities in all three districts may be found in Appendix A.

6.2 Sylhet District

Exhibit II is a map of the (old) Sylhet District, on which have been marked, with appropriate symbols and numbers, both the maintenance and the construction projects in the Sylhet District.

Exhibit III, consisting of 7 sheets, lists all the construction projects in the Sylhet District, by road and by fiscal year in which programmed. The "Serial Number" has no significance other than to serve as a simple symbol for locating the project on its respective map.

Exhibit IV, consisting of 14 sheets, contains the bar charts and progress curves for those projects that are currently active.

6.3 Rangpur District

Exhibit V is a map of the (old) Rangpur District, on which have been marked, with appropriate symbols and numbers, both the maintenance and construction projects in the Rangpur District.

Exhibit VI, consisting of 8 sheets, lists all the construction projects in the Rangpur District, by road and by fiscal year in which programmed. The "Serial Number" has no significance other than to serve as a simple symbol for locating the project on its respective map.

Exhibit VIII, consisting of 7 sheets, contains the bar charts and progress curves for those projects that are currently active.

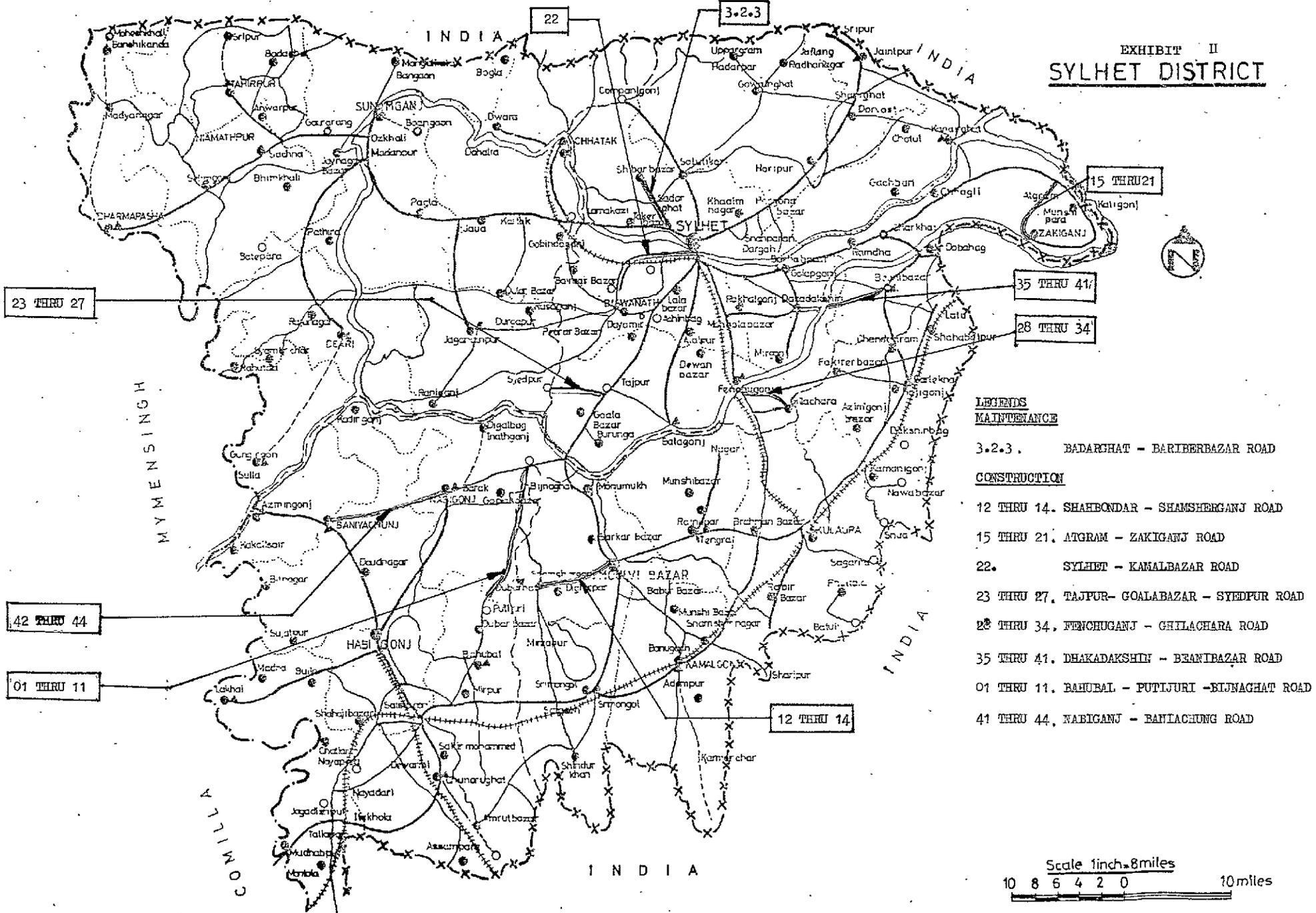
6.4 Faridpur District

Exhibit VIII is a map of the (old) Faridpur District, on which have been marked, with appropriate symbols and numbers, both the maintenance and construction projects in the Faridpur District.

Exhibit IX, consisting of 5 sheets, lists all the construction projects in the Faridpur District, by road and by fiscal year in which programmed. The "Serial Number" has no significance other than to serve as a simple symbol for locating the project on its respective map.

Exhibit X, consisting of 6 sheets, contains the bar charts and progress curves for those projects that are currently active.

EXHIBIT II
SYLHET DISTRICT

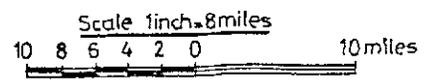


LEGENDS
MAINTENANCE

3.2.3. BADARCHAT - BARIBERBAZAR ROAD

CONSTRUCTION

- 12 THRU 14. SHAHBONDAR - SHAMSHERGANJ ROAD
- 15 THRU 21. ATGRAM - ZAKIGANJ ROAD
- 22. SYLHET - KAMALBAZAR ROAD
- 23 THRU 27. TAJPUR - GOALABAZAR - SYEDPUR ROAD
- 28 THRU 34. FENCHUGANJ - GHILACHARA ROAD
- 35 THRU 41. DHAKADAKSHIN - BEANIBAZAR ROAD
- 01 THRU 11. BAHUBAL - PUTIJJURI - BIJNAGHAT ROAD
- 41 THRU 44. NABIGANJ - BANLACHUNG ROAD



Serial Number	Contract Identification	Description Of Work Order	Percent Complete	Current Comments
<u>Bahubal - Putijuri - Bijnaghat Road</u>				
<u>1982 - 1983 Projects</u>				
01	ZRMI/11/82-83	Bituminous pavement, (0.50 km) Contract Price: Tk 914,450	100	Final bill processed
<u>1983 - 1984 Projects</u>				
02	ZRMI/01/83-84	Bituminous pavement (250 m) Contract Price: Tk 294,314	100	Final bill processed
03	ZRMI/02/83-84	Box Culvert (13.3 m) (Putijuri) Contract Price: Tk 350,598	100	Final bill processed
04	ZRMI/03/83-84	Box Culverts, 2 nos. (Resurat & Burigao) Contract Price, Tk. 265,850	100	Final bill processed
05	ZRMI/04/83-84	Box Culverts, 3 nos. (Revised) (Fultoli & Kandigaon)	100	Final bill processed
06	ZRMI/05/83-84	Box Culvert (Kargaon) Contract Price: Tk 199,710	100	Final bill processed
07	ZRMI/06/83-84	Box Culverts, 4 nos. (Revised) (Gazipur, Aingao, & Debpur)	100	Final bill processed
08	ZRMI/07/83-84	RCC Pipe Culverts, 14 nos. (Revised)	100	Final bill processed
<u>1984 - 1985 Projects</u>				
09	ZRMI/10/84-85	Bituminous pavement (Putijuri) (1.5 km) Contractor: Mr. Abdul Kalaque Contract Price: Tk 1,825,174	40	Progress on this contract is unsatisfactory. The contractor has attempted to blame the roller driver. However, the work has been at a standstill for some time, and has only recently been reinitiated in a disorganized manner. First running bill processed.
10	ZRMI/11/84-85	Box Culverts, 3 nos. (Revised) Contractor: Mr. Bablu Das Contract Price: Tk 693,092	98	Top slab of the last 3.6 m culvert was cast on 18 April. Approach work has been slow. Two running bills have been processed.
11	ZRMI/12/84-85	Reconstruct existing bridge slabs, 10 nos. Contractor: Mr. Saleh Ahmed Contract Price: Tk 631,219	70	The demolition work of the old bridges has accelerated some after the contractor accepted the suggestion of using moils and special workers for destroying the old concrete work. Five of the eight slabs have been completed. The contractor has been admonished to properly construct and finish the approaches. Two running bills have been processed.

Exhibit III - CONSTRUCTION SUPERVISION PROJECTS - SYLHET

Sheet 2 of 7

Serial Number	Contract Identification	Description Of Work Order	Percent Complete	Current Comments
<u>Shahbondar - Shamsheganj Road</u>				
<u>1982 - 1983 Projects</u>				
12	ZMI/17/82-83	Bituminous Pavement (0.75 mile) Contract Price : Tk. 1,185,190	<u>100</u>	Final bill processed
<u>1984 - 1985 Projects</u>				
13	ZRM1/9A/84-85	Leveling course (2.825 km) Contractor: Contract Price: Tk 617,179	<u>50</u>	<u>Only the earthwork portion has been worked to date. The contractor has been engaged in leveling and cambering the roadbed. Approximately 10 percent of the necessary aggregates have been stockpiled. No running bill has been processed.</u>
14	Zkml/9B/84-85	Leveling course (2.825 km) Contractor: Contract Price: Tk 618,303	<u>55</u>	<u>Although workmanship and work progress have improved on this contract, the overall situation remains the same. The RE has again recommended that the stage construction of pavement work (leveling course) be canceled and that the funds so saved be applied to necessary maintenance of the paved section at the beginning of this road (See maintenance activities photos, Sylhet District, in Appendix I). The traffic count and wheel load on this road do not justify the expense of pavement construction at this time. No running bills have been processed.</u>

Serial Number	Contract Identification	Description Of work Order	Percent Complete	Current Comments
<u>At gram. - Zakiganj Road</u>				
<u>1982 - 1983 Projects</u>				
15	ZKMI/16/82-83	Bituminous pavement (2 km) Final Expenditure ; Tk. 1,433,834	100	Final bill processed.
<u>1983 - 1984 Projects</u>				
16	ZKMI/09/83-84	Box Culvert (23 m) Contractor: Mr. A. Mumith Khan Contract Price: Tk 546,150	100	Final bill processed
17	ZKMI/10/83-84	Bituminous Pavement (1.78 km) Contract Price : Tk. 1,394,469	100	Final bill processed
18	ZKMI/11/83-84	Leveling course (4.55 km) Contractor: Mr. Amituzzaman Chowdhury Contract Price: Tk 1,278,722	100	Final bill processed
<u>1984 - 1985 Projects</u>				
19	ZKMI/13/84-85	Bridge (revised to Box Culvert) (31 m) Contractor: Mr. Rezaul Karim Contract Price: Tk 963,930	60	Flooding of the job site occurred on 17 March. The contractor has made every effort to stage up and continue his work, but high water levels have stymied him.
20	ZKMI/14/84-85	RCC Pipe Culverts, 15 nos. Contractor: J.C. & Co. Contract Price: Tk 256,978	10	On the occasion of the PM's visit of 02 April, it was agreed that this contract should not be canceled. However, lack of progress since that time suggests that the decision should be reconsidered. Only a few units of pipe have been cast, and 105 units are required.
21	ZKMI/15/84-85	Bridge (revised to 3 nos. Box Culverts) (66 m)		
	15A & C	Box Culverts, 2 nos. (5 m) Contractor: Mr. Abdul Mumith Khan Contract Price: Tk 557,782	88	15A has been completed, and the contractor is attempting to stay ahead of high water levels and complete 15C. He has staged up to cast the piers to top level, and is also attempting to cast the east abutment.
	15 B	Box Culvert (24.4 m) Contractor: M/S Mukthakim Corporation Contract Price: Tk 1,022,810	15	All work on this project was halted on 17 March by the flooding of the job site. The water level has since risen even higher and it is extremely doubtful that any further work will be possible until the advent of the next dry season.

Exhibit III - CONSTRUCTION SUPERVISION PROJECTS - SYLHET

Sheet 4 of 7

Serial Number	Contract Identification	Description Of Work Order	Percent Complete	Current Comments
<u>Sylhet - Kamal Bazar Road</u>				
<u>1982 - 1983 Projects</u>				
22	ZRMI/19/82-83	Bituminous pavement 6,000 ft. Contract Price : Tk. 1,360,010	<u>100</u>	Final bill processed
<u>Tajpur - Goalabazar - Syedpur - Khadimpur Road</u>				
<u>1982 - 1983 Projects</u>				
23	ZRMI/20/82-83	RCC Pipe Culverts, 10 Nos. (Later revised to 13 Nos.) Contract Price : Tk. 149,940	<u>100</u>	Final bill processed
24	ZRMI/21/82-83	Box Culvert (Original) Contract Price : Tk. 92,150	<u>100</u>	Final bill processed
<u>1983 - 1984 Projects</u>				
25	ZRMI/12/83-84	Bituminous pavement 0.35 km (Later revised) Contract Price : Tk. 675,675 (original)	<u>100</u>	Final bill processed
26	ZRMI/13/83-84	Box Culvert (10.1 m) (New Market) (Revised) Contractor: Mr. Shahid Chowdhury Contract Price: Tk 746,486	<u>100</u>	<u>Final bill being processed. The approach work required to complete this project was finalized during this reporting period. Erosion repairs required on one channel bank, and settlement correction on the other channel bank.</u>
<u>1984 - 1985 Projects</u>				
27	ZRMI/16/84-85	Bridge (31 m) (Nayabondar) (Revised to 24.4 m Box Culvert) Contractor: Contract Price: Tk 944,150	<u>45</u>	<u>The job site was completely flooded on 13 April, taking out formwork which was being prepared for the casting of the first lifts of the abutment walls. This contractor has made a concerted effort to get the piers and abutments above flood level, but the Consultants do not expect any further work on this project until after the monsoon season. One running bill has been processed.</u>

Exhibit III - CONSTRUCTION SUPERVISION PROJECTS - SYLHET

Sheet 5 of 7

Serial Number	Contract Identification	Description Of Work Order	Percent Complete	Current Comments
<u>Fenchuganj - Maijgaon - Ghilachara Road</u>				
<u>1982 - 1983 Projects</u>				
28	ZRMI/22/82-83	Bituminous pavement (0.5 miles) (Maijgaon) Contractor: Mr. Ziaul Islam Contract Price: Tk 747,545	<u>100</u>	<u>Final bill processed. The processing of the final bill was delayed until the earthwork item could be explained.</u>
29	ZRMI/23/82-83	RCC Pipe Culverts, 6 nos. Contractor: M/S Ayra and Co. Contract Price: Tk 96,602	<u>85</u>	<u>After repeated reminders to the contractor and the Zila Parishad personnel, some additional progress was accomplished during the last week of the reporting period.</u>
<u>1983 - 1984 Projects</u>				
30	ZRMI/14/83-84	Bituminous pavement 1.75 Km (later revised to Earthwork and Leveling course (2.8 km) Contractor: Mr. Shahid Chowdhury Contract Price: Tk. 1,640,415 (original)	<u>85</u>	<u>This contract has been canceled due to financial inability of the contractor to continue the work. Final measurements have been taken and new alignments deleted. ZRMI/17/84-85, awarded to this same contractor, has also been canceled.</u>
<u>1984 - 1985 Projects</u>				
31	ZRMI/17/84-85	Bituminous pavement (0.925 km) Contractor: Mr. Shahid Chowdhury Contract Price: Tk 764,537	<u>0</u>	<u>As explained above, this contract has been canceled. It was retendered for the third time on 22 April 1985.</u>
32	ZRMI/18/84-85	Leveling course and Earthwork (2.8 km) Contractor: Mr. Nasieh Uddin Chowdhury Contract Price: Tk 455,730	<u>90</u>	<u>This contract was essentially completed during this reporting period; there are only a few short sections remaining, and some rain damage must be repaired. Two running bills have been processed.</u>
33	ZRMI/19/84-85	Box Culverts, 2 nos. (6.8m & 3.6 m) Contractor: Mr. Kazi Munif Uddin Ahmed Contract Price: Tk 362,460	<u>100</u>	<u>The top slab of the second culvert was cast on 15 April, and much of the site cleanup and approach work has been completed. One running bill has been processed.</u>
34	ZRMI/20/84-85	Box Culverts, 6 nos. (1.5 m) Contractor: Mr. Abdul Quayum Contract Price: Tk 362,460	<u>100</u>	<u>The contractor had completed all structural work and was in the process of site cleanup and approach work. Previous concrete tests indicated good quality, but tests taken on the last two culverts indicated low strength. Two running bills have been processed.</u>

Serial Number	Contract Identification	Description Of Work Order	Percent Complete	Current Comments
<u>Dhakadakshin - Beanibazar Road</u>				
<u>1982 - 1983 Projects</u>				
35	ZRMI/24/82-83	Earthwork and Bituminous pavement (0.75 mile) (Later revised) Contractor: Mr. Khalilur Rahman Contract Price: Tk 1,105,408 (original)	100	<u>The contractor completed the approximately 200 lin. ft. of bituminous pavement covering the approaches to the Dhakadakshin box culvert, which was recently completed. Four running bills have been processed.</u>
36	ZRMI/25/82-83	RCC Pipe Culverts, 5 nos. (Revised to 6 nos) Contractor: Mr. Habibur Rahman Contract Price: Tk 65,732 (original)	100	<u>Final bill processed</u>
<u>1983 - 1984 Projects</u>				
37	ZRMI/15/83-84	Box Culvert (Noakhal) (Revised) Contractor: Mr. Babul Ahmed Contract Price: Tk 221,025 (original)	100	<u>Final bill processed for the approved portion of the work.</u> <u>No payment will be certified for four of the five structures because of poor quality and sub-specification work.</u>
38	ZRMI/16/83-84	Earthwork and Bituminous pavement, (2.45 km) (Later revised) Contractor: Mr. Khalilur Rahman Contract Price: Tk 1,981,042 (original)	95	<u>Work has been delayed by rains and flooding of the Radhajuri channel, which isolated incomplete sections from the materials.</u> <u>Five running bills have been processed.</u>
<u>1984 - 1985 Projects</u>				
39	ZRMI/21/84-85	Box Culvert (5.2 m) and Retaining wall (Dhakadakshih) Contractor: Contract Price: Tk 299,096	100	<u>Except for final finish work, all work has been completed.</u> <u>Three running bills have been processed.</u>
40	ZRMI/22/84-85	Box Culvert (26.5 m) (Lula River) (Later revised) Contractor: Contract Price: Tk 940,561 (original)	15	<u>High water level inundated the job site. Contractor was engaged in rod bending and materials gathering, and he was able to cast the bottom slab on 24 April. If he is able to continue the casting of the abutments and piers, this project might be completed this year.</u>
41	ZRMI/23/84-85	Bridge (86 m) (Radhajuri) Contractor: Contract Price:	45	<u>Despite high water and flood conditions, the contractor was able to cast the first span of girders and slab on the east abutment on 19 and 20 April. He is currently working on raising the western abutment and piers. One running bill has been checked.</u>

Exhibit III - CONSTRUCTION SUPERVISION PROJECTS - SYLHET

Sheet 7 of 7

Serial Number	Contract Identification	Description Of Work Order	Percent Complete	Current Comments
<u>N a b i g a n j - B a n i y a c h u n g R o a d</u>				
<u>1983 - 1984 Projects</u>				
42	ZRNI/17/83-84	Box Culvert (14.76 m) (Nabiganj) Contract Price : Tk. 623,175	<u>100</u>	Final bill processed. Contractor advised that any further settlement of approaches must be rectified by him during the guarantee period.
<u>1984 - 1985 Projects</u>				
43	ZKNI/24/84-85	Box Culvert (10.1 m) (Barrakhal) Contractor: M/S Sonawar and Co. Contract Price: Tk 429,128	<u>95</u>	<u>The contractor cast the top slab on 23 April, and has since been engaged in completing the approach work. The second running bill was held up for payment by the Deputy Commissioner until the return of the XEN. This problem has since been resolved.</u>
44	ZKHI/25/84-85	Box Culverts, 3 nos. 3.6 m and one 5.2 m Contractor: M/S Sonawar and Co. Contract Price: Tk 822,546	<u>30</u>	<u>After much pressure was exerted on this contractor, he managed to stockpile a quantity of materials at each job site ahead of the arrival of high water levels. However, on the occasion of the site visit of 23 April, no further progress could be observed. Status of the project at each was as follows:</u> <u>Km 5.8 - Stone breaking only, no foundation excavation.</u> <u>Km 6.5 - Materials stockpiled, C.C slab cast.</u> <u>Km 7.2 - Bottom slab cast 09 April, nothing more since that time.</u> <u>Km 8.4 - C.C slab cast, some material stockpiled.</u> <u>This contractor must make a concentrated effort at each job site if these structures are to be completed prior to the flooding of the area by the monsoons.</u>

EXHIBIT IV

BAR CHARTS, PROJECT SCHEDULES, AND
CURRENT STATUS

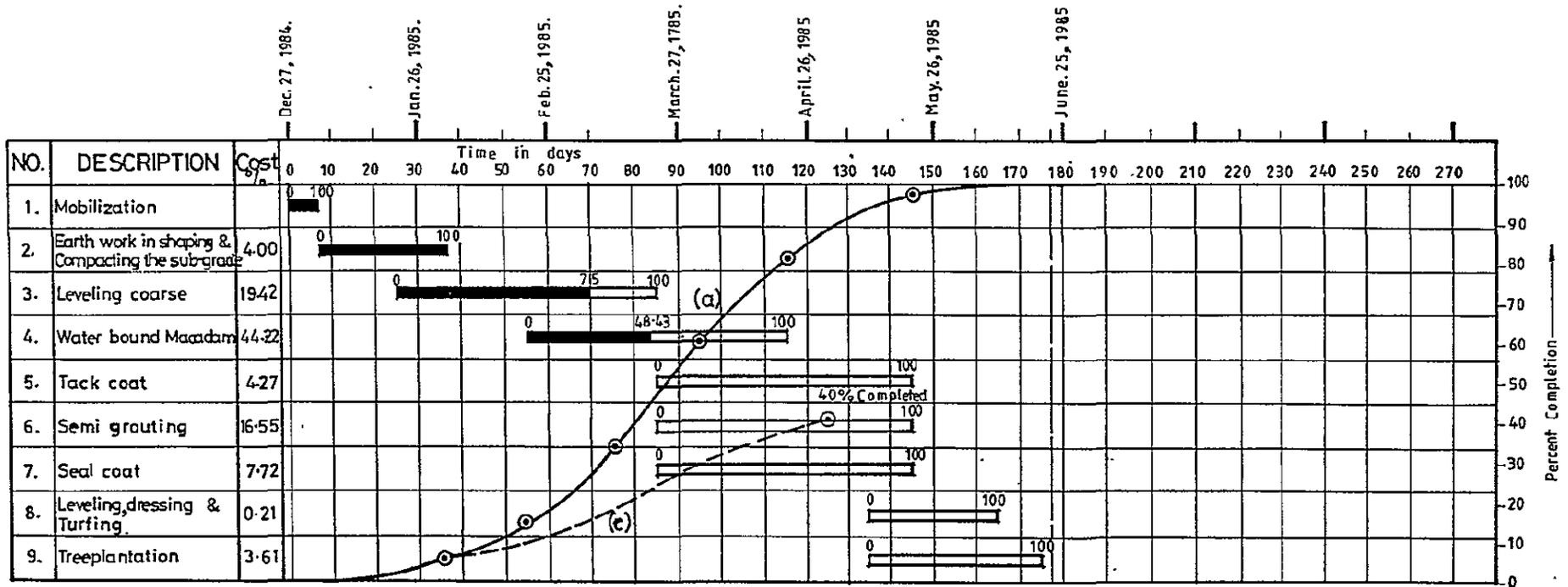
SYLHET DISTRICT

SYLHET DISTRICT

Construction of 150km.Bituminous Pavement Work on BAHUBAL-PUTIJURI-BIJNAGHAT ROAD. (ZRM-10/1984-85)

- (a) Schedule Progress
- (b) Revised Schedule
- (c) Actual Progress

Estimated Cost : Tk. 16,59,400-00
 Contract Cost : Tk. 18,25,174,00
 Scheduled Starting date : Dec. 27, 1984
 Actual Starting date : Jan. 02, 1985
 Scheduled Completion date : June-27, 1985
 Actual Completion date :
 Revised Cost : Tk.
 Date of revision :



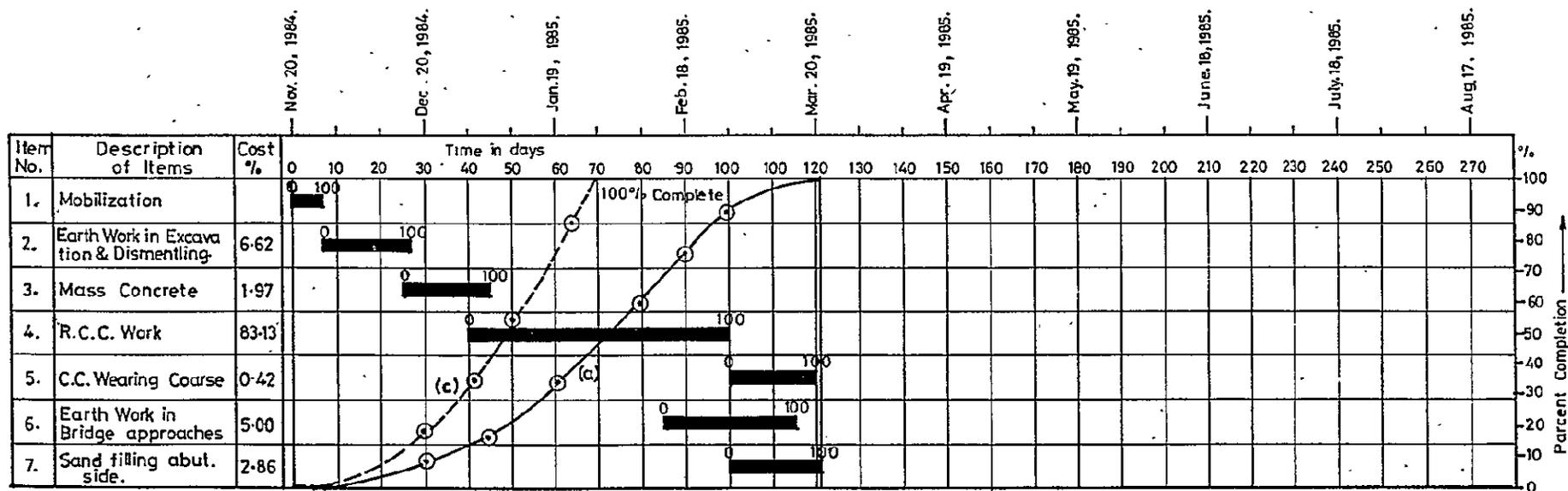
SYLHET DISTRICT

Construction of R.C.C.Box Culvert, Size 3'60m.X3'5m. at Barchar on Bahubal - Putijuri Road(ZRMI-11/84-'85)

- (a) ———— Schedule Progress
- (b) - - - - Revised Schedule
- (c) - - - - Actual Progress

Estimated Cost: Tk. 1,87,400-00
 Contract Cost: Tk. 2,05,971-00
 Scheduled Starting date: 20, Nov.1984.
 Actual Starting date: 10, Dec.1984.
 Scheduled Completion date: 21, Mar. 1985.
 Revised Completion date:
 Revised Cost: Tk.
 Date of Revision:

- 20 -

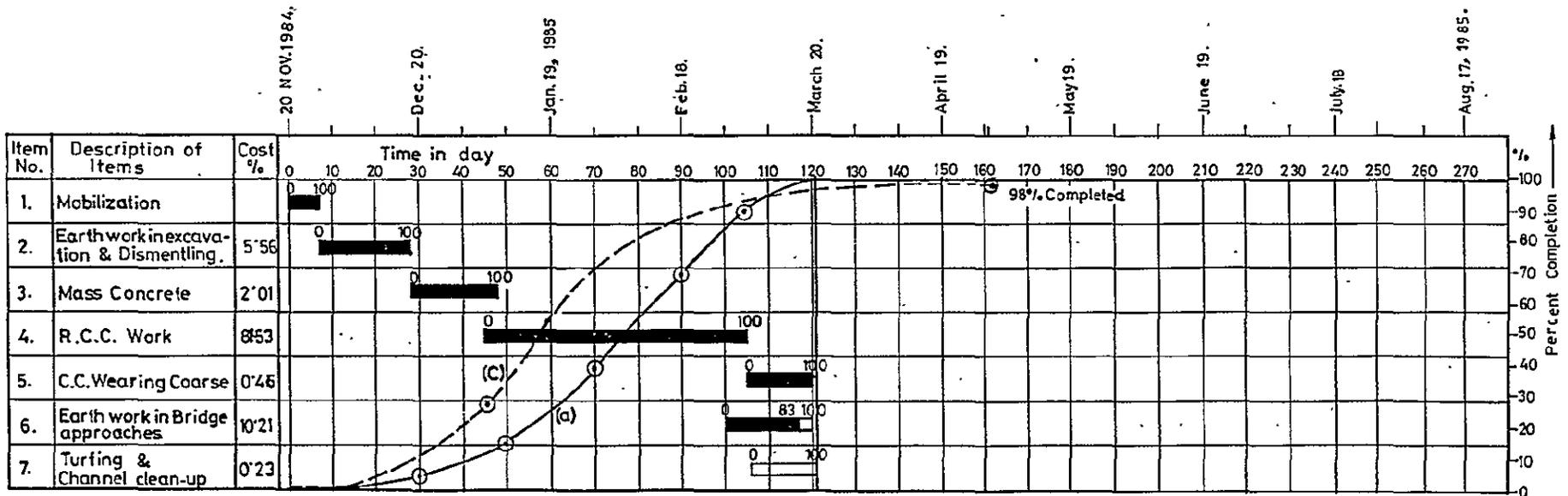


SYLHET DISTRICT

Construction of R.C.C.Box Culvert, Length 5'20m. Breath 6'00m.
Hight 3'00m. at Hasnabad on Bahubal-Putijuri Road (ZRM- 11/ 1984-'85)

- (a)  Schedule Progress
 (b)  Revised Schedule
 (c)  Actual Progress

Estimated Cost: Tk. 2,48,300'00.
 Contract Cost: Tk. 2,72,906'53
 Scheduled Starting date: 20 Nov. 1984
 Actual Starting date: 28 Dec. 1984
 Scheduled Completion date: 21 March 1985
 Revised Completion date:
 Revised Cost: Tk.
 Date of revision:

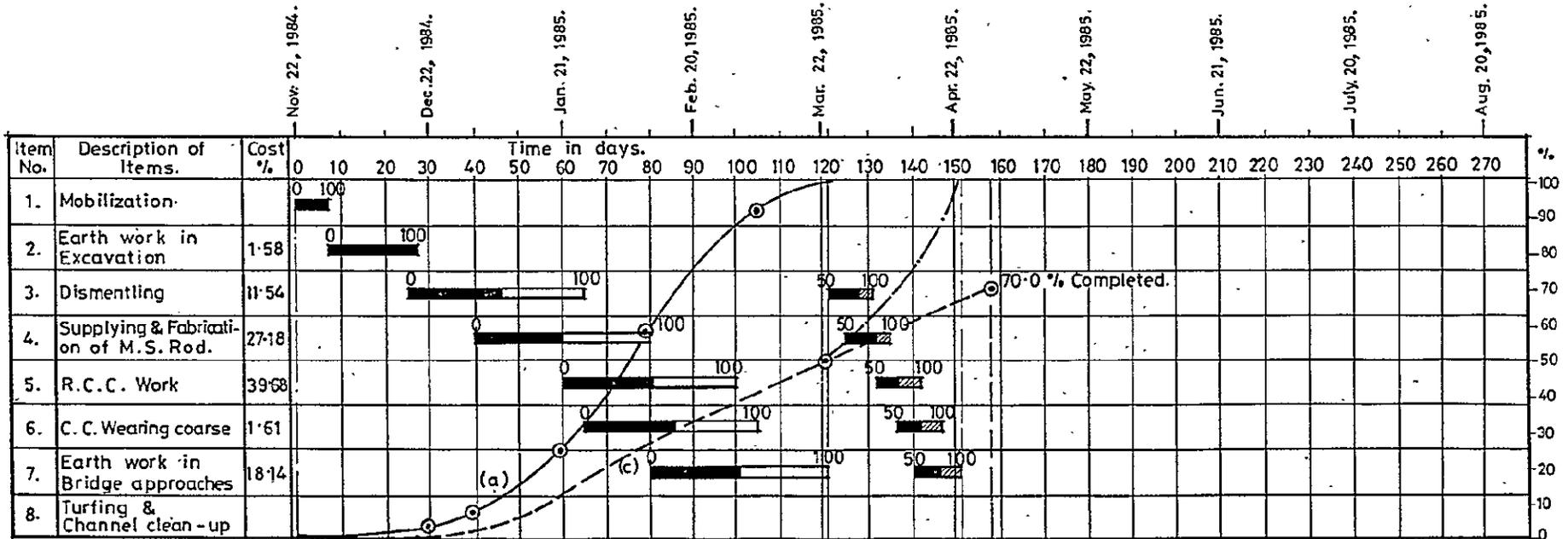


SYLHET DISTRICT

Reconstruction of Slabs 3 Nos. 3.65m Spans & 5 Nos. 4.50m. Spans at
Existing Culverts on Bahubal - Putizuri - Bijnaghat Road (ZRM/12/84-85)

Estimated Cost : Tk. 5,79,100.00.
 Contract Cost : Tk. 6,31,219.00.
 Scheduled Starting date: Nov. 22, 1985.
 Actual Starting date: Jan. 20, 1985.
 Scheduled Completion date: Mar. 23, 1985.
 Revised Completion date: Apr. 23, 1985.
 Revised Cost: Tk.
 Date of Revision

- (a) ———— Schedule Progress
- (b) ———— Revised Schedule
- (c) ———— Actual Progress

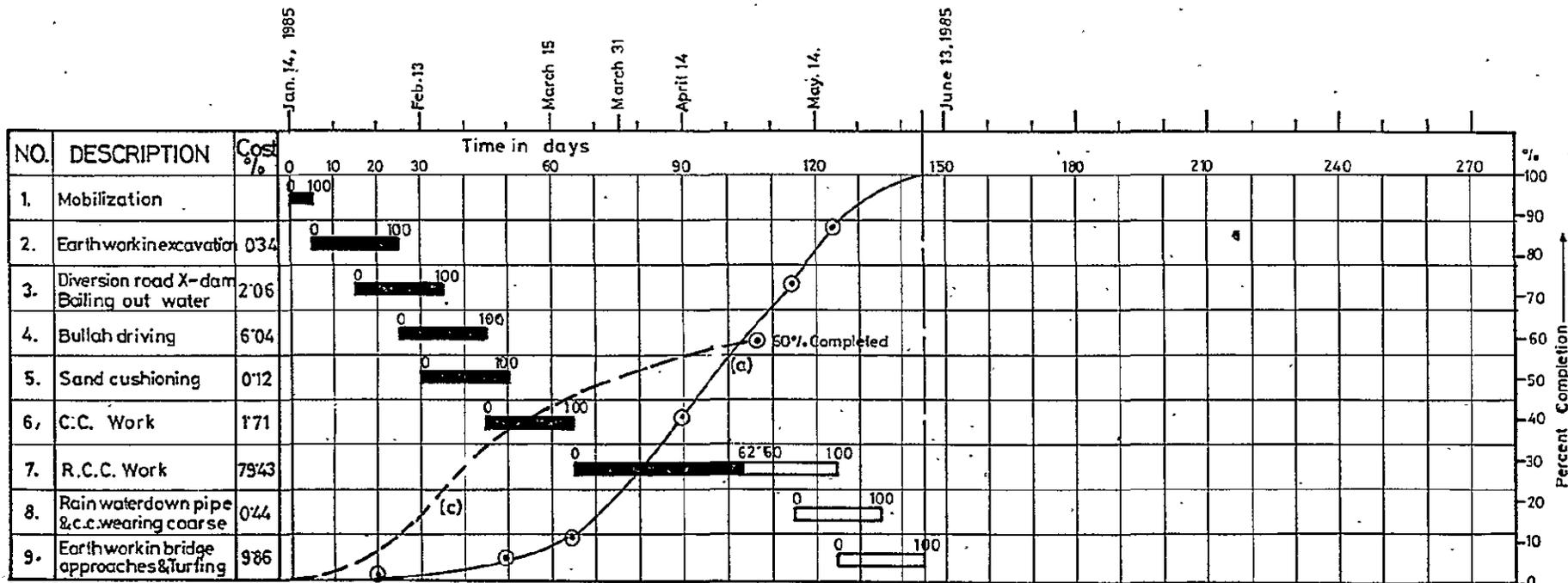


SYLHET DISTRICT

Construction of R.C.C. Box Bridge. Size 24'5m.X6'5m. at 7'3km. on ATGRAM-ZAKIGONJ ROAD(ZRMI-13B/1984-85)

Estimated Cost: TK. 8,894,000'00
 Contract Cost: TK. 10,22,810'00
 Scheduled Starting date: Jan. 14, 1985
 Actual Starting date: Jan. 20, 1985
 Scheduled Completion date: June 5, 1985
 Actual Completion date:
 Revised Cost: TK.
 Date of Revision:

- (a) Schedule Progress
- (b) Revised Schedule
- (c) Actual Progress

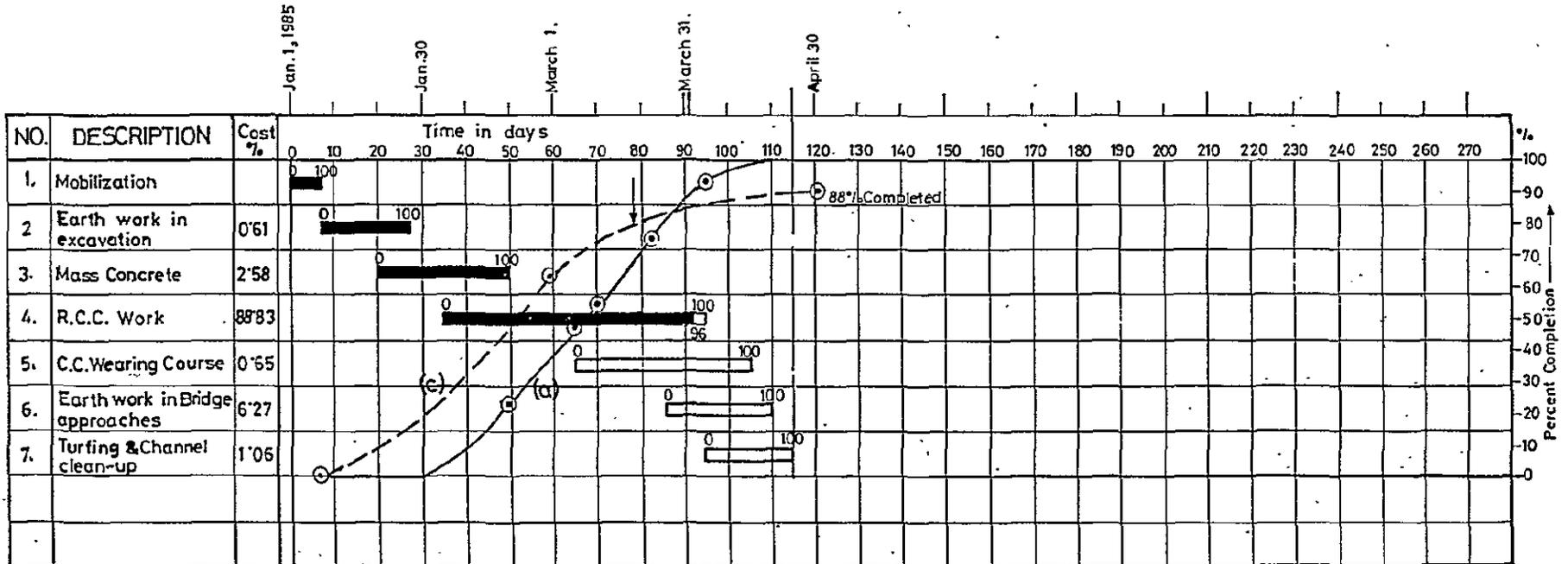


SYLHET DISTRICT

Construction of R.C.C. Box Culvert, Size 10'10m.X3'00m. at 7°20' & 7°40' km.
(Atgram end) ATGRAM-ZAKIGONJ Road. (ZRMI-15A&C/1984-85)

Estimated Cost: TK. 4,86,000'00
 Contract Cost: TK. 5,57,782'00
 Schedule Starting date: Jan.1, 1985
 Actual Starting date: Jan.5, 1985
 Scheduled Completion date: April 28, 1985
 Revised Completion date:
 Revised Cost: TK.
 Date of Revision:

- (a)  Schedule Progress
 (b)  Revised Schedule
 (c)  Actual Progress



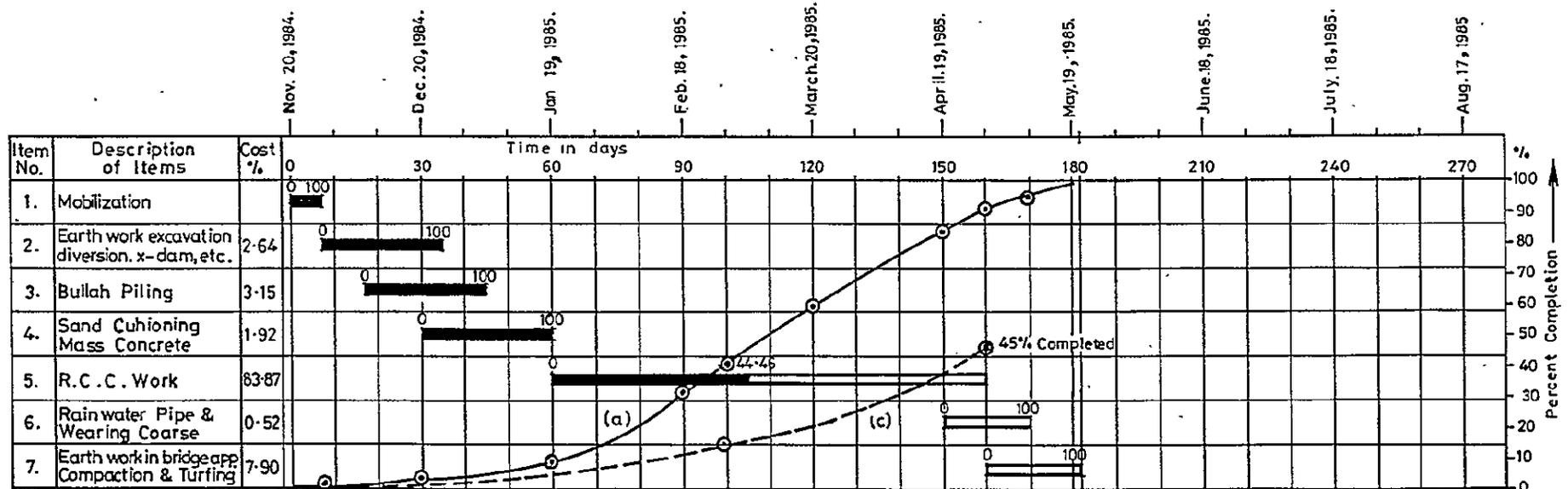
NOTE:- Work site flooded on March 17, 1985

SYLHET DISTRICT

Construction of R.C.C.Box Culvert Size 24.4m x 6.5m at
Nayabandar on Tajpur-Khadimpur-Syedpur Road(ZRML16/1984-85)

- (a) ——— Scheduled Progress
- (b) ——— Revised Schedule
- (c) ——— Actual Progress

Estimated Cost: Tk. 8,54,700-00
 Contract Cost: Tk. 9,82,905-00
 Scheduled Starting date: Nov. 20, 1984.
 Actual Starting date: Dec. 21, 1984.
 Scheduled Completion date: May 21, 1985.
 Actual Completion date:
 Revised Cost: Tk.
 Date of revision:

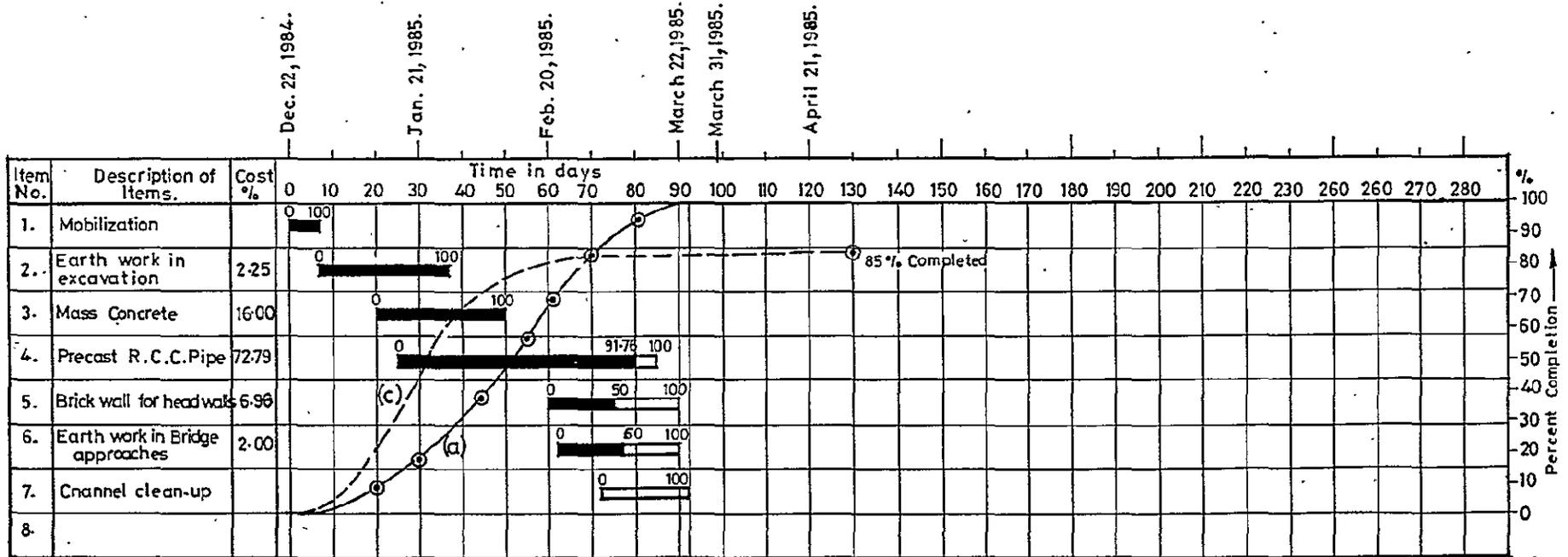


SYLHET DISTRICT

Construction of 6 Nos. 2'-0" dia R.C.C. Pipe Culvert on Fenchugonj-Gilachara Road. Tender No. ZRMI 23/(82-83).

- (a) ———— Schedule Progress.
- (b) ———— Revised Schedule.
- (c) ———— Actual Progress.

Estimated Cost: TK. 87,820.00
 Contract Cost: TK. 96,602.00
 Scheduled Starting date: Dec. 22, 1984.
 Actual Starting date: Dec. 24, 1984.
 Scheduled Completion date: March 24, 1985.
 Revised Completion date:
 Revised Cost: TK.
 Date of revision:



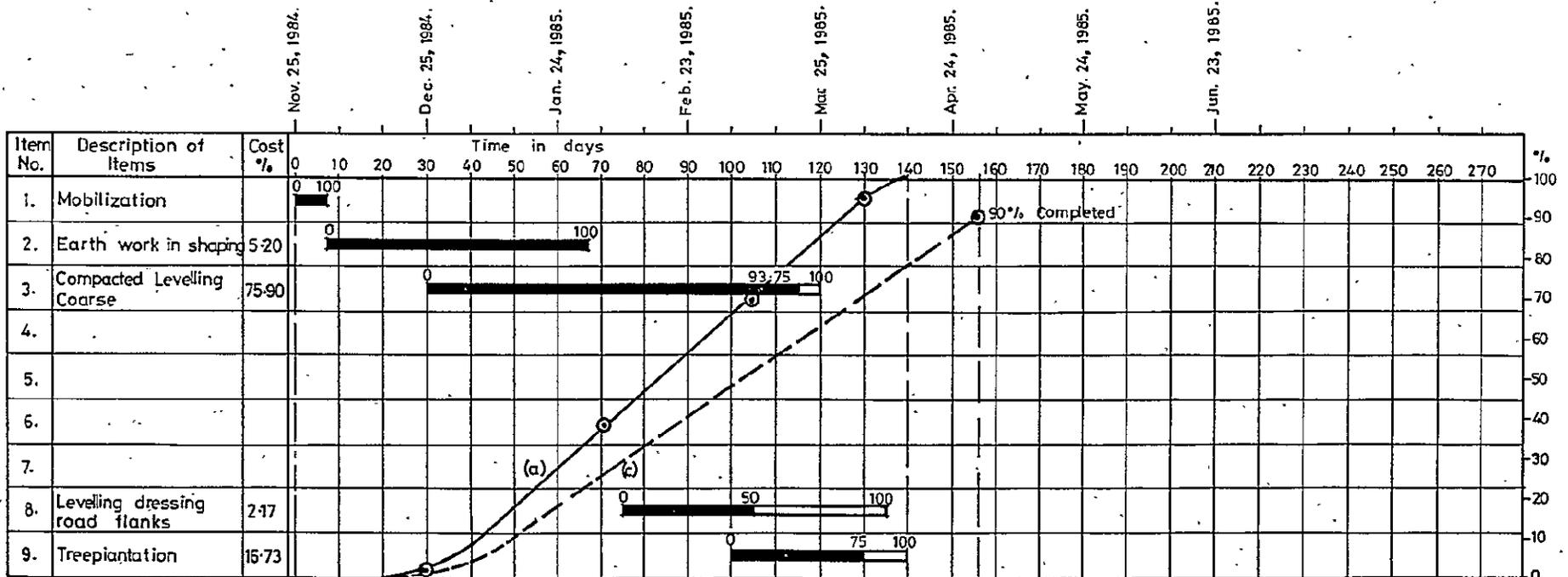
SYLHET DISTRICT

Levelling Coarse Work on FENCHUGONJ - GILACHORA Road (Lenth=2.30km.)

- (a)  Schedule Progress
- (b)  Revised Schedule
- (c)  Actual Progress

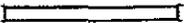
Estimated Cost: Tk. 4,14,300-00.
 Contract Cost: Tk. 4,55,730-00.
 Scheduled Starting date: Nov. 25, 1985.
 Actual Starting date: Dec. 19, 1985.
 Scheduled Completion date: Apr. 14, 1985.
 Actual Completion date: _____
 Revised Cost: Tk. _____
 Date of revision: _____

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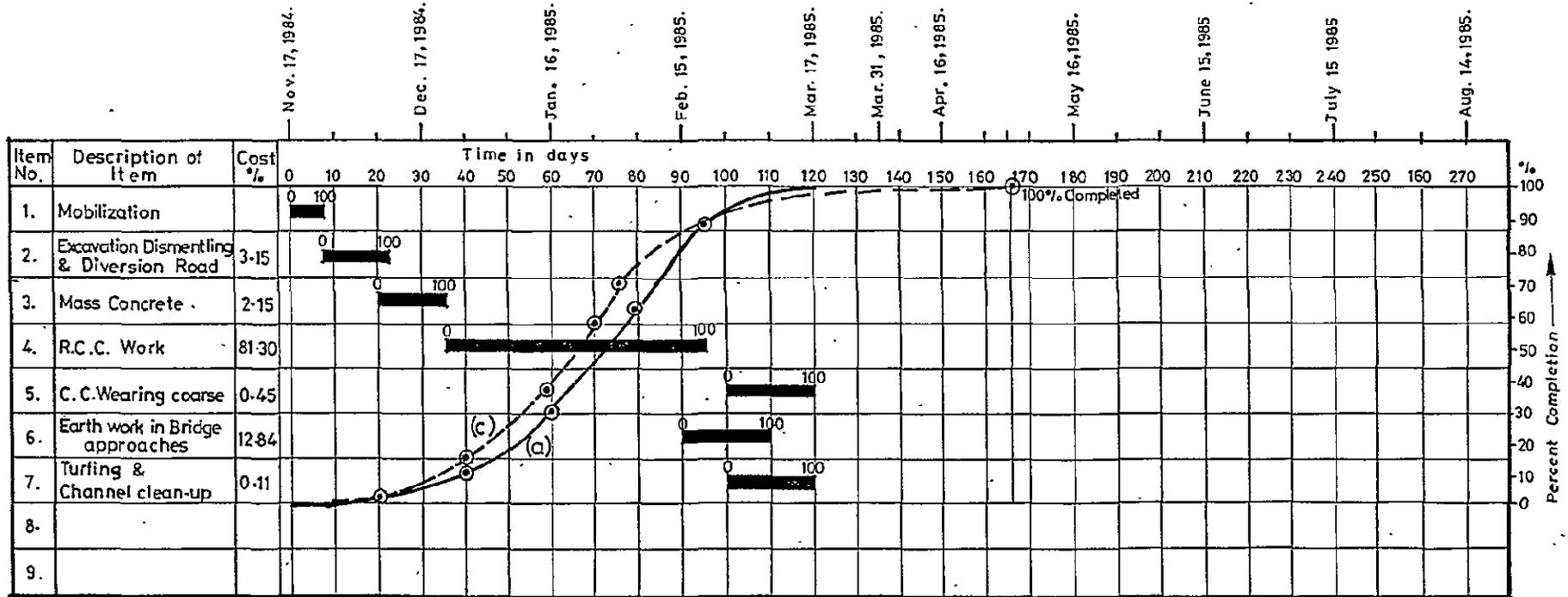
SYLHET DISTRICT

Construction of R.C.C.Box Culvert, Size 6.85m x 4.50m on Fenchugonj-Gilachara Road. (ZRMI-19/84-85)

- (a)  Schedule Progress
- (b)  Revised Schedule
- (c)  Actual Progress

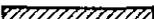
Estimated Cost: Tk. 3,27,700-00.
 Contract Cost: Tk. 3,20,457-00
 Scheduled Starting date: Nov. 17, 1984.
 Actual Starting date: Nov. 20, 1984.
 Scheduled Completion date: Mar. 18, 1985.
 Revised Completion date:
 Revised Cost: Tk.
 Date of Revision:

- 28 -

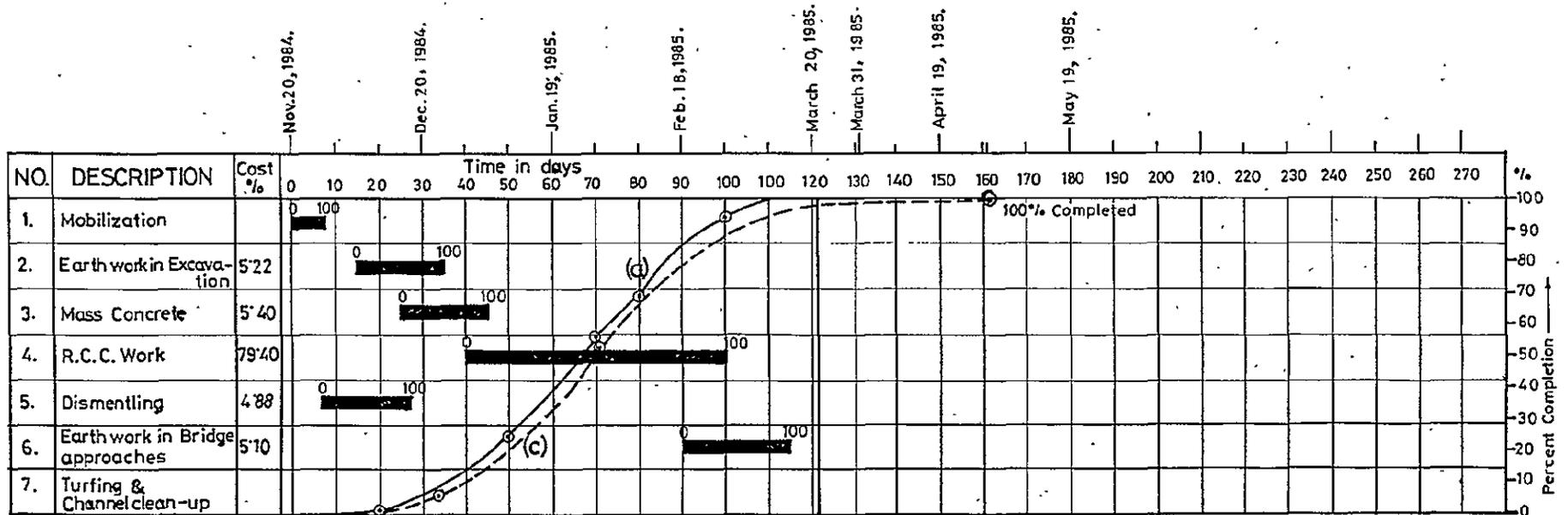


SYLHET DISTRICT

Construction of 6 Nos R.C.C. Box Culvert Size 1'5m.x1'5m.
on Fenchugonj - Gilachara Road (ZRMI 20/1984-'85)

- (a)  Schedule Progress
- (b)  Revised Schedule
- (c)  Actual Progress

Estimated Cost: Tk. 3,45,200.00
 Contract Cost: Tk. 3,62,460.00
 Scheduled Starting date: Nov. 20, 1984.
 Actual Starting date: Nov. 21, 1984.
 Scheduled Completion date: March. 21, 1985.
 Revised Completion date:
 Revised Cost: Tk.
 Date of revision:



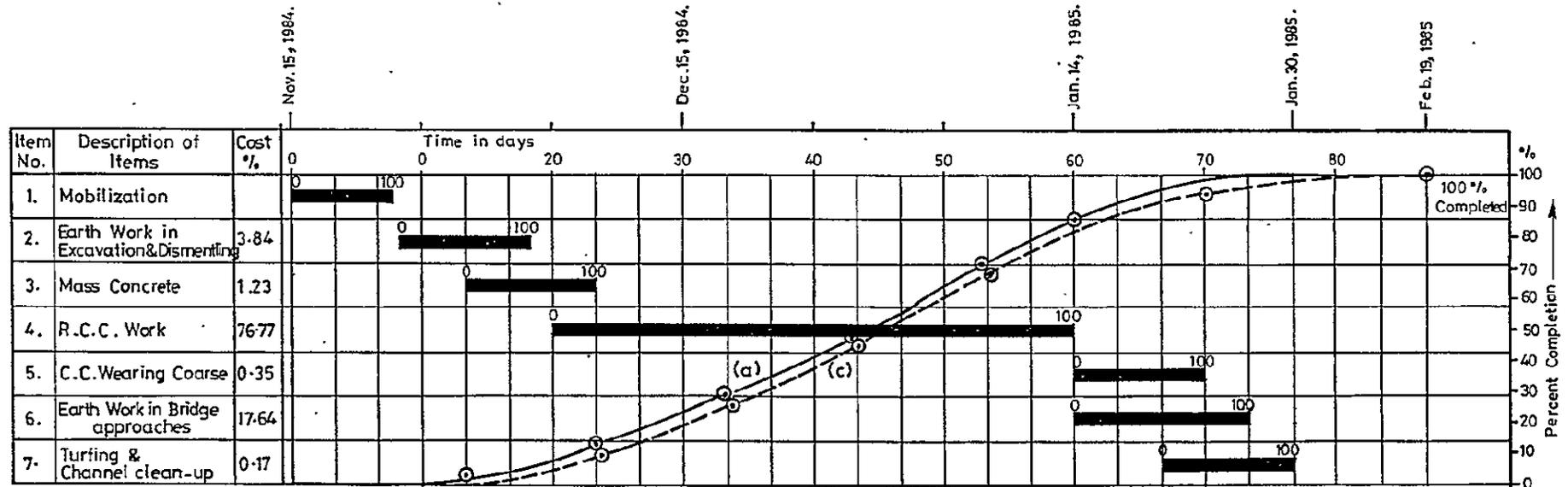
SYLHET DISTRICT

Construction of R.C.C.Box Culvert, Size 5-20m x 4.50m on Dhakadakshin Beanibazar Road (ZRMI-21/1984-'85)

Estimated Cost: Tk. 2,92,500-00
 Contract Cost: Tk. 2,86,621-00
 Schedule Starting date: Nov. 15, 1984.
 Actual Starting date: Nov. 18, 1984.
 Scheduled Completion date: Jan. 30, 1985.
 Revised Completion date:
 Revised Cost: Tk.
 Date of revision:

- (a) ——— Schedule Progress
- (b) ——— Revised Schedule
- (c) ——— Actual Progress

- 30 -

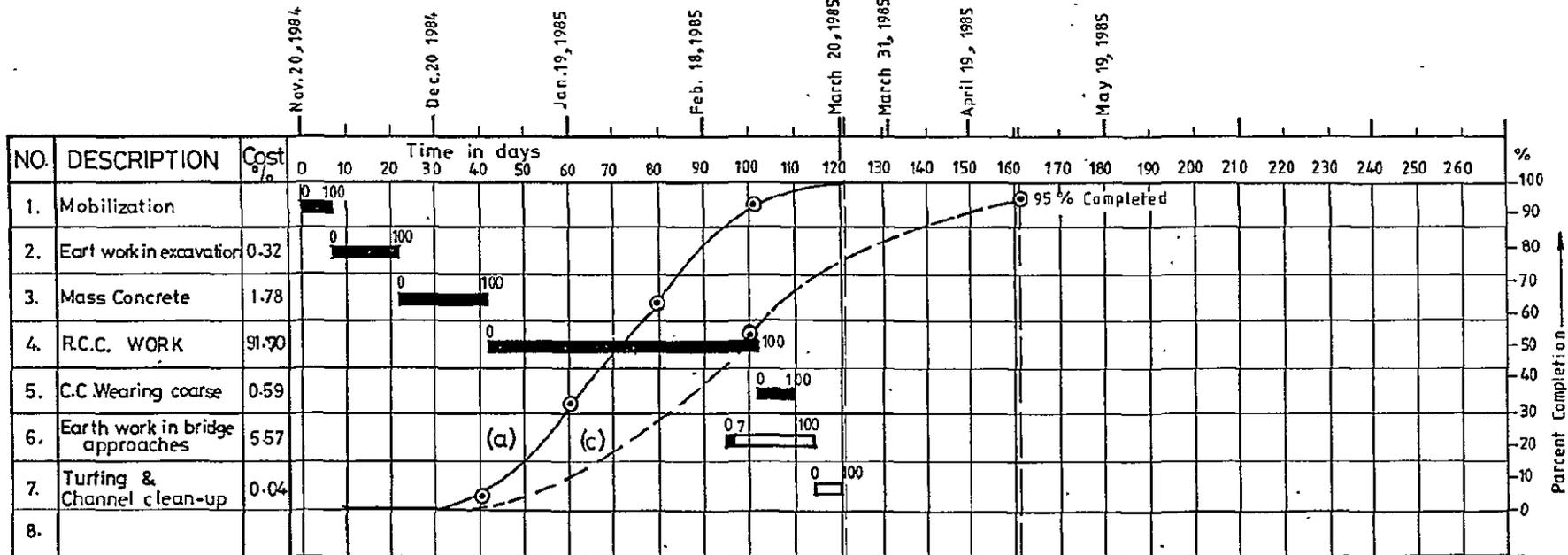


SYLHET DISTRICT

Construction of R.C.C. Box Culvert Size 10.00m x 5.50m. on NABIGONJ - BANIACHONG ROAD, AT BARAKHAL. (ZRMI-T/24/1984-85)

- (a) Schedule Progress
- (b) Revised Schedule
- (c) Actual Progress

Estimated Cost: Tk. 4,09,200.00
 Contract Cost: Tk. 4,29,128.00
 Scheduled Starting date: Nov. 20, 1984
 Actual Starting date: Jan. 07, 1985
 Scheduled Completion date: Mar. 21, 1985
 Actual Completion date: _____
 Revised Cost: Tk. _____
 Date of Revision: _____



SYLHET DISTRICT

Construction of 2 Nos.5'20m.long,1No.3'60m.long,&1No.1'50m.long
Box Culvert on NABIGONJ- BANIACHONJ ROAD (ZRMI/25/'84-85)

- (a)  Schedule Progress
- (b)  Revised Schedule
- (c)  Actual Progress

Estimated Cost: Tk. 7,91,900'00.
 Contract Cost: Tk. 8,22,546'00.
 Scheduled Starting date: Nov. 20, 1984.
 Actual Starting date: Feb. 27, 1985.
 Scheduled Completion date: April 11, 1985.
 Actual Completion date: _____
 Revised Cost: Tk. _____
 Date of revision: _____

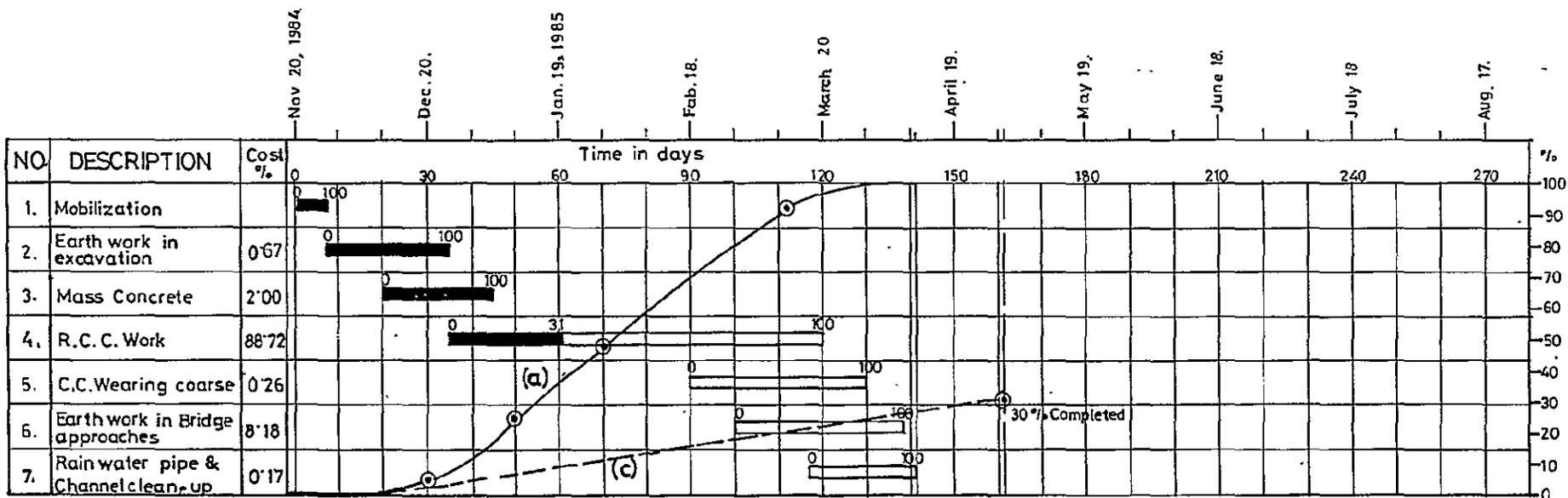


Exhibit VI - CONSTRUCTION SUPERVISION PROJECTS - RANGPUR

Sheet 1 of 8

Serial Number	Contract Identification	Description Of Work Order	Percent Complete	Current Comments
<u>Gaibandha - Kamarjani Road</u>				
<u>1982 - 1983 Projects</u>				
01	Group A, B, C, & D	HBB 12,600 ft Contract Price : Tk. 1,877,699	100	All work completed April 1984. Reimbursement has now been recommended for final billing.
<u>1983 - 1984 Projects</u>				
02	Group A	Bituminous pavement 3,060 ft Contractor: Mr. Shamsul Aziz Contract Price: Tk 585,866	62	Bituminous carpeting was underway during this reporting period, with periodic suspension of work. 1300 lin. ft of carpeting and seal coat completed to date.
03	Group B	Bituminous pavement 3,060 ft Contractor: Mr. Shamsul Aziz Contract Price: Tk 585,866	40	The work order for this contract was canceled by the XEN on 17 April, but the contractor proceeded with bituminous carpeting for a section length of 300 lin. ft.
04	Group C	Bituminous pavement 3,060 ft Contractor: Mr. Shahjahan Khan Atou Contract Price: Tk 585,867	64	For all practical purposes, there was no progress on this project for this reporting period -- a total of 100 lin. ft of bituminous carpeting was put down.
<u>1984 - 1985 Projects</u>				
05	Group 1A	Bituminous pavement 1,725 ft Contractor: Mr. M.N. Nabi Lalu Contract Price: Tk 460,000	33	The WBM is complete. No material has been stockpiled for carpeting work. Progress of this work has been slow and quality control needs to be improved.
06	Group 1B	Bituminous pavement 1,725 ft Contractor: Mr. Tapan Kuman Sarker Contract Price: Tk 449,840	33	The WBM is complete. No carpeting material was found on the site.
07	C - 4	RCC Bridge, 16 ft, (Dariapur) Contractor: Mr. Gelal Uddin Contract Price: Tk 161,500	45	No work was done on this project during this reporting period. The contractor did not even put in an appearance at the job site.
08	B - 6	RCC Bridge, 20.4 m (Kumarpara)	---	No work order issued to date.

EXHIBIT V
RANGPUR DISTRICT



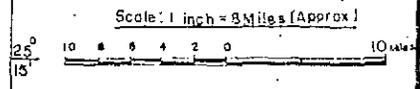
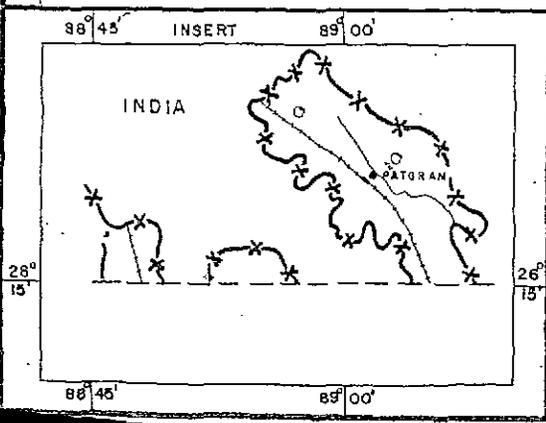
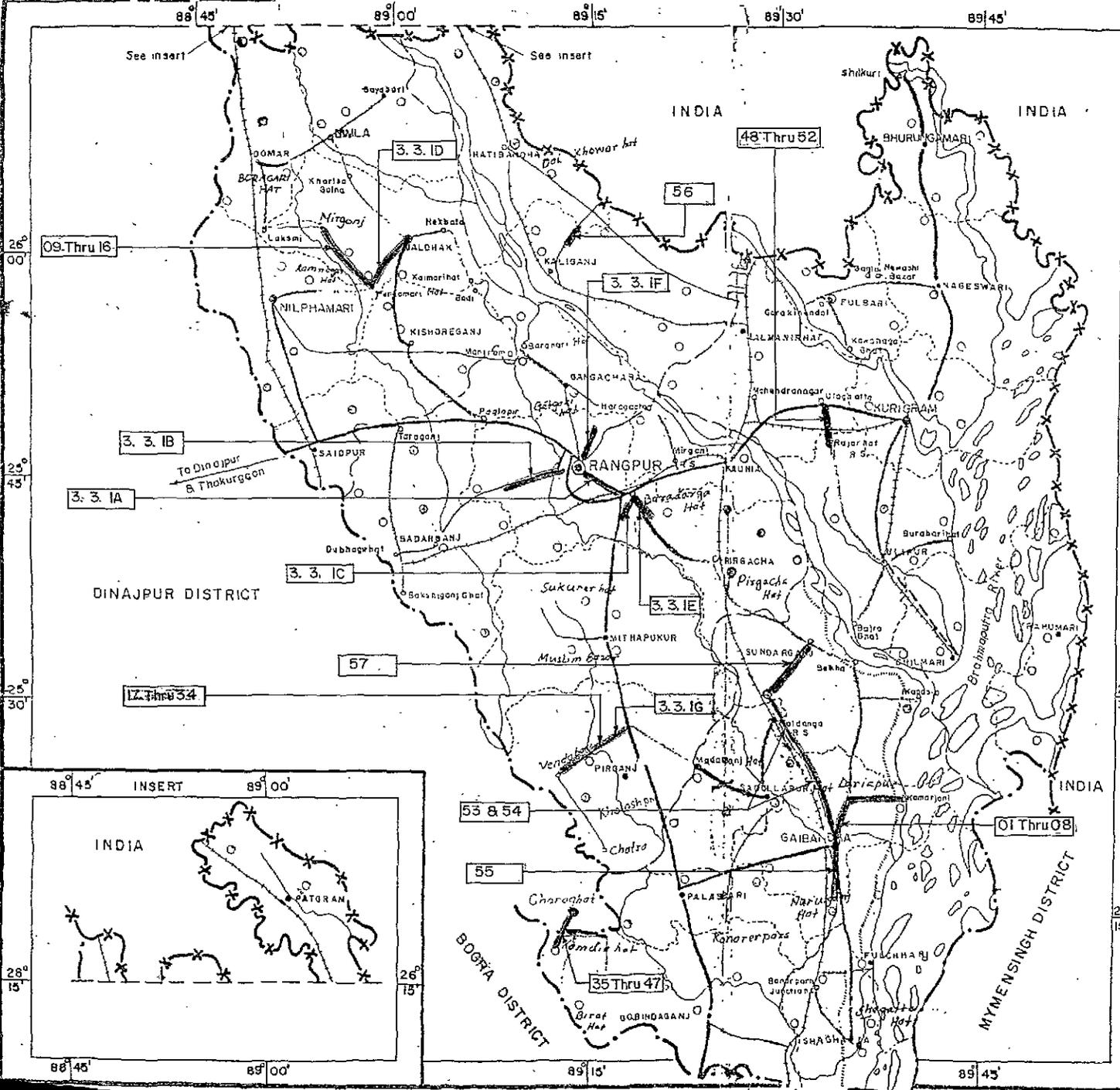
LEGEND:

MAINTENANCE

- 3.3.1A RANGPUR-MAHIGANJ ROAD
- 3.3.1B RANGPUR-BADARGANJ ROAD
- 3.3.1D MIRGANJ-JALDHAKA ROAD
- 3.3.1E RANGPUR-SUNDARGANJ ROAD
- 3.3.1F RANGPUR-KALIGANJ ROAD
- 3.3.1G BARCARGA-BEENDABARI ROAD.

CONSTRUCTIONS

- 01 THRU 08 GATEBANDHA-KAMARJANI RD.
- 09 THRU 16 MIRGANJ-JALDHAKA RD.
- 17 THRU 34 CEATRA-KHALASHPIR-BEENDABARI ROAD.
- 35 THRU 47 KALDIA-CHORAGHAT ROAD.
- 48 THRU 52 RAJARHAT-ULLAGHATA RD.
- 53 & 54 GATEBANDHA-MALDANGA ROAD.
- 55 & 56 GATEBANDHA-SAGHATA ROAD.
- 57 BANONDANGA-SUNDARGANJ RD.



Serial Number	Contract Identification	Description Of Work Order	Percent Complete	Current Comments
<u>Mirganj - Jalchaka Road</u>				
<u>1982 - 1983 Projects</u>				
09	Groups A, B, & C	Bituminous pavement 4,575 ft Contract Price : Tk. 872,110	100	Completed May 1984. Maintenance work started. Final Payment processed.
10	Group D	Bituminous pavement 1,525 ft Contractor: Mr. Ismail Contract Price: Tk 292,168	100	All work completed. Final payment recommended on 17 April 1985.
11	Group E	Bituminous pavement Contractor: Mr. Lotus Contract Price: Tk	70	The WBM work is complete. Some 900 lin. ft of bituminous carpeting are complete.
<u>1983 - 1984 Projects</u>				
12	Group A	Bituminous pavement 2,800 ft Contractor: M/S Shahed and Co. Contract Price: Tk 759,730	100	After a revised estimate problem had been solved, the final bill is now ready for processing.
13	Groups B, C-1, & C-2	Bituminous pavement 5,600 ft Contractor: Contract Price: Tk 1,304,281	100	After a revised estimate problem had been solved, the final bill is now ready for processing.
11	Group E	Bituminous pavement	---	Transferred to 1-82 - 1-83 Projects as Group E
<u>1984 - 1985 Projects</u>				
14	Group 3-A	Bituminous pavement, 2,200 lin. ft Contractor: Mr. Yamulo Ali Contract Price: Tk 566,426.02	42	The WBM work is complete. Material collection is in progress, but the bituminous carpeting work still has not been undertaken.
15	Group 3-B	Bituminous pavement, 2,200 lin. ft Contractor: Mr. Shamsul Haque Contract Price: Tk 633,600.36	28	The WBM is complete for 1200 lin. ft. and a single layer for an additional 400 lin. ft. Progress of this project is very slow.
16	Group 3-C	Bituminous pavement 2,200 ft Contractor: Mr. Atiar Rahman Contract Price: Tk 615,472.35	100	All work is complete. After a problem of excess work had been solved, the final bill is now ready for processing.

Serial Number	Contract Identification	Description Of work Order	Percent Complete	Current Comments
<u>Barodarga - Bhendabari Road</u>				
<u>1982 - 1983 Projects</u>				
17	Groups A & B	Bituminous pavement 2,920 ft. Contract Price : Tk. 557,985	100	Correction of defective seal coat work was in progress. Final bill has not yet been processed.
18	Groups C, D-1, & D-2	bituminous pavement 2,200 ft Contract Price : Tk. 431,263	100	Final bill processed
19	Group C-2	bituminous pavement 730 ft Contractor: Mr. Momen Brothers Contract Price: Tk 141,657	100	Final bill processed.
<u>1983 - 1984 Projects</u>				
20	Group A	bituminous pavement, 3,150 lin. ft Contractor: Mr. Md. Kazi Ish Contract Price: Tk 732,253	100	All work completed on 26 April 1985. Final bill has not yet been processed.
21	Group B	Bituminous pavement 3,200 ft Contractor: M/S Eastern Boring Construction Contract Price: Tk 728,636	100	Final bill processed
22	Group C	Bituminous pavement 3,000 ft Contractor: Mr. Muckleshur Rahman Contract Price: Tk 670,673	100	Final bill processed
23	Group D	Bituminous pavement 3,100 ft Contractor: Mr. Jahirul Haque Contract Price: Tk 676,548	100	Final bill processed
24	Group E	bituminous pavement, 3,200 lin. ft Contractor: M/S Raihan Construction Contract Price: Tk 666,308	80	The WEM work completed for the entire revised contract length, and some 1,500 lin. ft of bituminous carpeting is complete. Progress is slow.
25	Group F	Bituminous pavement, 3350 lin. ft Contractor: M/S Zakaria Khan Contract Price: Tk 727,772	70	Some 2,300 lin. ft of WEM is complete, and 1,500 lin. ft of bituminous carpeting is complete.
<u>1984 - 1985 Projects</u>				
26	Group 2(a)A	Bituminous pavement, 1650 lin. ft Contractor: M/S National Construction Contract Price: Tk 610,196.13	99	All work is complete. Site cleanup and shoulder dressing is in progress.
27	Group 2(a)B	Bituminous pavement, 1650 lin. ft Contractor: Mr. Ekramul Haque Contract Price: Tk 621,261.87	54	WEM work is complete. Carpeting work has not yet been started. Work progress is slow.

Serial Number	Contract Identification	Description Of work Craer	Percent Complete	Current Comments
<u>Barodarga - Bhendabari Road (Cont.)</u>				
<u>1984 - 1985 Projects (Cont.)</u>				
28	Group 2(a)C	Bituminous pavement, 1650 lin. ft Contractor: Mr. Moklesur Rahman Contract Price: Tk 594,169	34	<u>Some 1,000 lin ft of WBM is complete. On the April 24th inspection, the contractor was found to be doing poor quality work. After some exchange of words, he corrected the work. Progress is very slow.</u>
29	Group 2(b)A	Bituminous pavement, 1556 lin. ft Contractor: Mr. Shamsul Haque Contract Price: Tk 627,534.82	33	<u>Some 920 lin. ft of WBM is complete. Contractor should be encouraged to accelerate the work progress.</u>
30	Group 2(b)B	Bituminous pavement, 1556 lin. ft Contractor: M/S Eastern Builders Contract Price: Tk 612,052.17	57	<u>The WBM work is complete, but only about 100 lin. ft of bituminous carpeting have been placed.</u>
31	C - 1	RCC box Culvert, 8 ft (Gurjipara) Contractor: Mr. A. Hamid Contract Price: Tk 110,952	25	<u>Reinforcement fabrication was in progress at the end of this reporting period. Contract completion date was 10 February 1985.</u>
32	C - 2	RCC Slab, 13 ft (Gurjipara) Contractor: Mr. A. Hamid Contract Price: Tk 66,759	91	<u>All structural work complete; now working on development of both bridge approaches.</u>
33	C - 3	Pipe culvert, 50 in. dia (Mile 2) Contractor: Mr. Rezaul Hasan Contract Price: Tk 36,092	82	<u>The RCC pipes have been placed and one headwall has been constructed. However, nothing has been done on the second headwall for a long time.</u>
34		RCC Box Culvert, 10 ft (Mile 1) Contractor: Mr. Abdus Salam Contract Price: Tk 126,140	15	<u>Reinforcement fabrication was started at the end of April.</u>
34A	Group 2(b)C	Bituminous Pavement Contractor: Mr. Alauddin Khan Contract Price: Tk 623,708.52	36	<u>WBM work completed for 720 lin. ft. and single layer material compacted for 400 lin. ft. Work progress is very slow on this project.</u>

Exhibit VI - CONSTRUCTION SUPERVISION PROJECTS - RANGPUR

Sheet 5 of 8

Serial Number	Contract Identification	Description Of Work Order	Percent Complete	Current Comments
<u>Kamdia - Ghoraghat Road</u>				
<u>1982 - 1983 Projects</u>				
35	Groups A, C, & D	HBB, 7,687.5 ft Contract Price : Tk. 1,082,202	100	All work, including shoulder repair work is now complete.
36	Group B	HBB 2,562.5 ft Contractor: Mr. Motlebur Rahman Contract Price: Tk 376,191	100	Final payment being processed.
<u>1983 - 1984 Projects</u>				
37	Group A	HBB, 3,000 ft Contractor: Mr. Amjad Ali Contract Price: Tk 533,500	100	Final bill has not yet been processed.
38	Groups B & C	HBB, 5,000 ft Contract Price : Tk. 670,878	100	Final bill processed for Group C Final bill not yet processed for Group B.
39	Group D	HBB, 3000 lin. ft Contractor: Mr. Motlebur Rahman Contract Price: Tk 418,738	90	Some 2,700 lin. ft have been completed. Quality control needs to be improved.
<u>1984 - 1985 Projects</u>				
40	Group 4 (b)A	Bituminous pavement, 2,562 ft Contractor: Mr. Mahbulo Elahi Contract Price: Tk 750,325	25	The WBM work complete for 1,500 lin. ft. Overall work progress has been slow. However, good progress was made during this reporting period.
41	Group 4 (b)B	Bituminous pavement, 2,562.5 ft Contractor: M/S Padma Enterprises Contract Price: Tk 750,375	33	Some 2,200 lin. ft WBM is complete. Fairly good progress was made during this reporting period.
42	Group 4 (b)C	Bituminous pavement, 2,562.5 ft Contractor: M/S United Enterprises Contract Price: Tk 748,417.50	32	WBM complete for 2,100 lin. ft. While good progress was made during this reporting period, overall progress has been inadequate.
43	Group 4 (b)D	Bituminous pavement 2,562.5 ft Contractor: Mr. Abdullah Al Mahmud Contract Price: Tk 750,375	33	WBM is complete for 2,200 lin. ft. While good progress was made during this reporting period, overall progress has been inadequate.

Exhibit VI - CONSTRUCTION SUPERVISION PROJECTS - RANGPUR

Sheet 6 of 8

Serial Number	Contract Identification	Description of work Order	Percent Complete	Current Comments
<u>Kamdia - Ghoraghat Road (Cont.)</u>				
<u>1984 - 1985 Projects (Cont.)</u>				
44	Group 4 (a)A	Bituminous pavement, 1766 lin. ft Contractor: Mr. Kasim Uddin Sarker Contract Price: Tk 663,165.90	08	<u>Progress of work is very unsatisfactory on this project. To date, some 500 lin. ft of flat brick soling have been accomplished. The contractor must be encouraged to accelerate the work rate.</u>
45	Group 4 (a)B	Bituminous pavement, 1766 lin. ft Contractor: Mr. A.K.M. Showkat Ali Contract Price: Tk 663,167.05	40	<u>WBI complete for 1300 lin. ft. Overall progress is better than the other groups, but progress during this reporting period has been poor.</u>
46	Group 4 (a)C	Bituminous pavement, 1768 lin. ft Contractor: Mr. Amjad Ali Contract Price: Tk 663,167.05	30	<u>Brick flat soling is complete, and some 300 lin ft WBI have been laid on the soling. Poor progress was made during this reporting period.</u>
<u>1982 - 1983 Projects (Cont.)</u>				
47		Tree sforestation Contractor: Mr. Salaiman Ahmed Contract Price: Tk 16,894	---	<u>No work has been done, and the project has been dropped.</u>
<u>Rajarhat - Ullaghata Road</u>				
<u>1982 - 1983 Projects</u>				
46	Groups A & D	HBB 4,870 ft Contract Price : Tk. 782,297	98	<u>Work is 95 percent complete in Group A and 100 percent complete in Group D. A revised estimate problem remains to be solved before final bills can be processed.</u>
49	Groups B & C	HBB	---	<u>These projects have been canceled and the funds transferred to the Mircani - Jaldhaka Road for HBB work after the Tangomari Bazar.</u>
<u>1983 - 1984 Projects</u>				
<u>1984 - 1985 Projects</u>				
50	B - 5	RCC Bridge, 24.4 m (Deulia Beel)	---	<u>Tenders have been received, but no work order has yet been issued by the XEN's office.</u>

Serial Number	Contract Identification	Description Of work Order	Percent Complete	Current Comments
<u>Rajarhat - Ullaghata Road (Cont.)</u>				
<u>1984 - 1985 Projects (Cont.)</u>				
51	B - 6	RCC Bridge, 14.2 m (Baddayar Bazar)	---	Tenders have been received, but no work order has yet been issued by the XEN.
52	B - 7	RCC Bridge, 14.2 m (Pangahat)	---	Tenders have been received, but no work order has yet been issued by the XEN.
<u>Gaibandha - Naldanga Road</u>				
<u>1984 - 1985 Projects</u>				
53	B - 1	RCC Bridge, 20 ft Contractor: Mr. Shamsul Huj Contract Price: Tk 281,300	57	Abutment and wingwall brick work was in progress. Work progress has been very slow. Original contract completion date was 10 February 1985.
54	B - 3	RCC Bridge, 20 ft (rhal-hati) Contractor: Mr. Anwarul Azim Contract Price: Tk 317,724	70	Brick work is complete for abutments and wingwalls. During this reporting period, the contractor started the formwork for the RCC deck slab and completed the casting of same.
<u>Gaibandha - Saghata Road</u>				
<u>1984 - 1985 Projects</u>				
55	B - 2	RCC Bridge, 15 ft Contractor: Mr. Ranjit Bakshi Contract Price: Tk 202,686	93	Deck slab was cast on April 27, 1985.

Exhibit VI - CONSTRUCTION SUPERVISION PROJECTS - RANGPUR

Sheet 8 of 8

Serial Number	Contract Identification	Description Of Work Order	Percent Complete	Current Comments
<u>Chaperhat - Kaliganj Road</u>				
<u>1984 - 1985 Projects</u>				
56	C - 5	RCC Bridge, 10 ft Contractor: Mr. Mofazzal Hossain Contract Price: Tk 140,000	<u>15</u>	<u>Some progress in the excavation of the foundation and the casting of the floor slab.</u>
<u>Bamandanga - Sunderganj Road</u>				
<u>1984 - 1985 Projects</u>				
57	C - 6	RCC Box Culvert, 10 ft (Saitontola) Contractor: Mr. A.K.M. Kashem Contract Price: Tk 145,000	<u>47</u>	<u>Both sidewalls had been cast up to a level of 6 feet. Work on this project is progressing very slowly.</u>

EXHIBIT VII

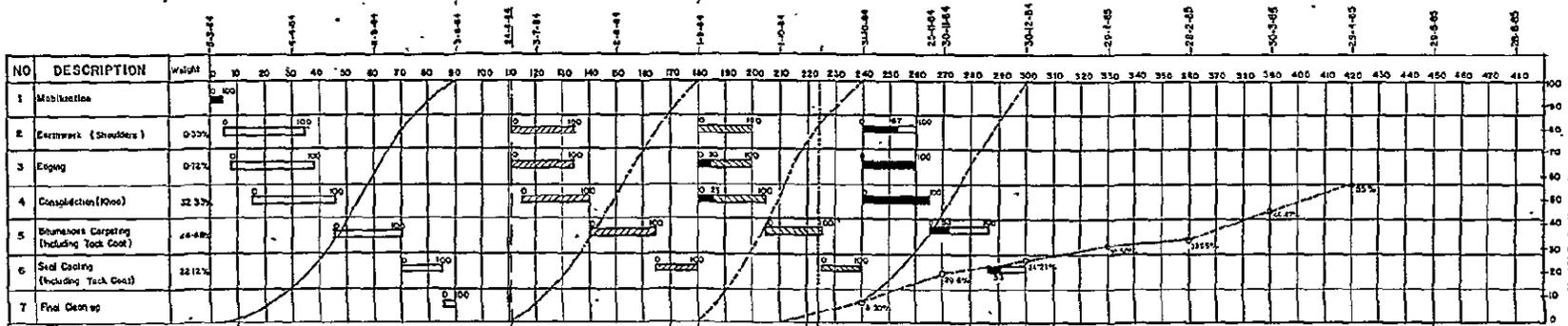
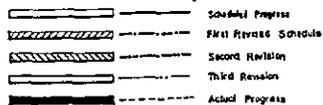
BAR CHARTS, PROJECT SCHEDULES, AND

CURRENT STATUS

RANGPUR DISTRICT

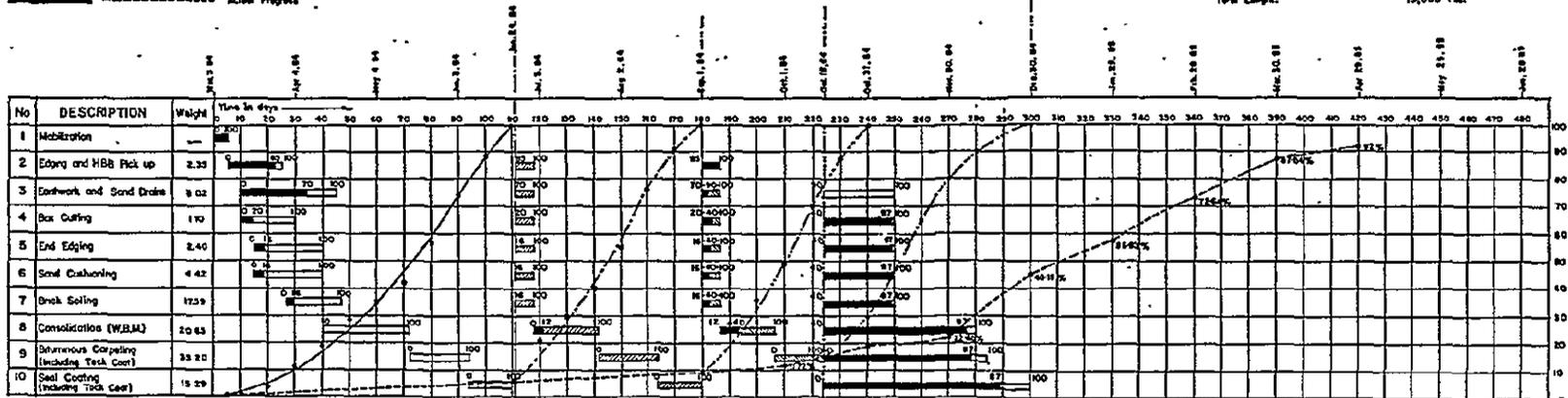
ZILA ROADS MAINTENANCE AND IMPROVEMENT PROJECT
RANGPUR DISTRICT
IMPROVEMENT OF GAIBANDHA KAMARJANI ROAD 1983-84
KHOA CONSOLIDATION AND BITUMINOUS CARPETING
ON EXISTING H.B.B

Estimated Cost: Tk. 1890000
 Estimated Cost: Tk. 17,57,298
 Scheduled Starting Date: March 5, 1984
 Actual Starting Date: —
 Scheduled Completion Date: June 5, 1984
 First Revised Completion Date: July 31, 1984
 Second Revised Completion Date: October 31, 1984
 Third Revised Completion Date: December 31, 1984
 Date of Revision: June 24, 1984
 Total Length: 9180 feet



ZILA ROADS MAINTENANCE AND IMPROVEMENT PROJECT
RANGPUR DISTRICT
IMPROVEMENT OF BARODARGA-BHENDABARI ROAD 1983-1984
BITUMINOUS CARPETING
REVISED PROGRESS CHART

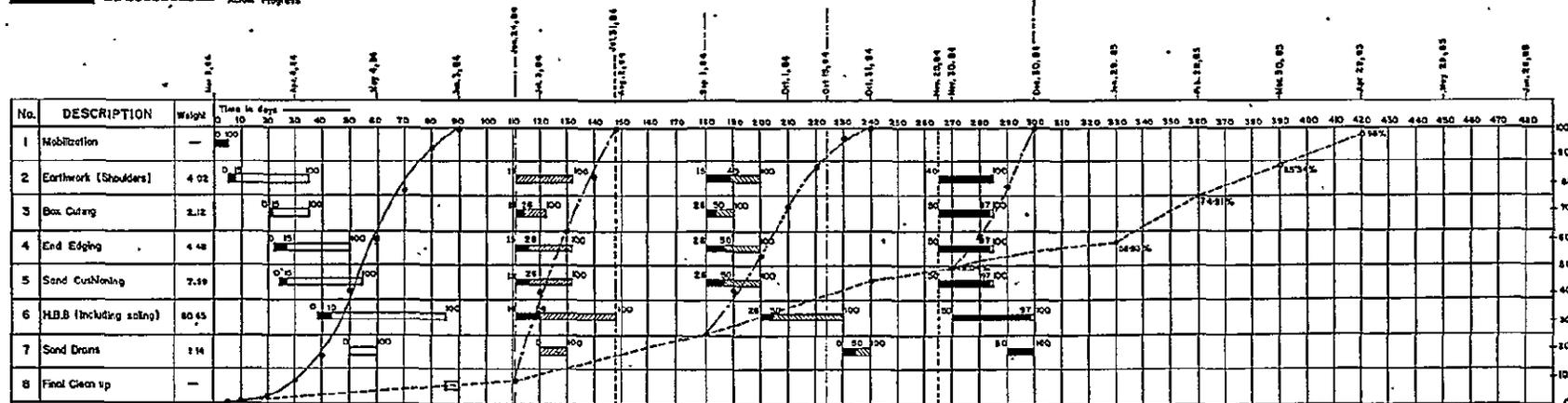
Estimated Cost: Tk. 47,45,633
 Original Contracted Cost: Tk. 42,02,960
 Revised Contracted Cost: Tk. 46,89,148
 Scheduled Starting Date: March 5, 1984
 Actual Starting Date: March 06, 1984
 Scheduled Completion Date: June 5, 1984
 First Revised Completion Date: August 31, 1984
 Second Revised Completion Date: October 31, 1984
 Third Revised Completion Date: December 31, 1984
 Date of Revision: June 24, Sept. 1st, Oct. 15, 1984
 Total Length: 19,000 Feet



ZILA ROADS MAINTENANCE AND IMPROVEMENT PROJECT
RANGPUR DISTRICT
IMPROVEMENT OF KAMDIA-GHORAGHAT ROAD 1983-1984
H.B.B. PAVEMENT
REVISED PROGRESS CHART

Revised Estimated Cost: TL 16,34,137
 Total Contracted Cost: TL 16,23,117
 Scheduled Starting Dates: See Note (1)
 Actual Starting Dates: See Note (2)
 Scheduled Completion Dates: See Note (3)
 First Revised Completion Date: July 31, 1984
 Second Revised Completion Date: October 31, 1984
 Third Revised Completion Date: December 31, 1984
 Dates of Revision: June 24, Sept 1st, Oct 15, 1984
 Total Length: 11,000 Feet

Original Scheduled Progress
 First Revised Schedule
 Second Revision
 Third Revision
 Actual Progress



NOTES: (1) Groups B and C: March 5, 1984
 Group A: Nov. 23, 1984
 Group D: Dec. 18, 1984

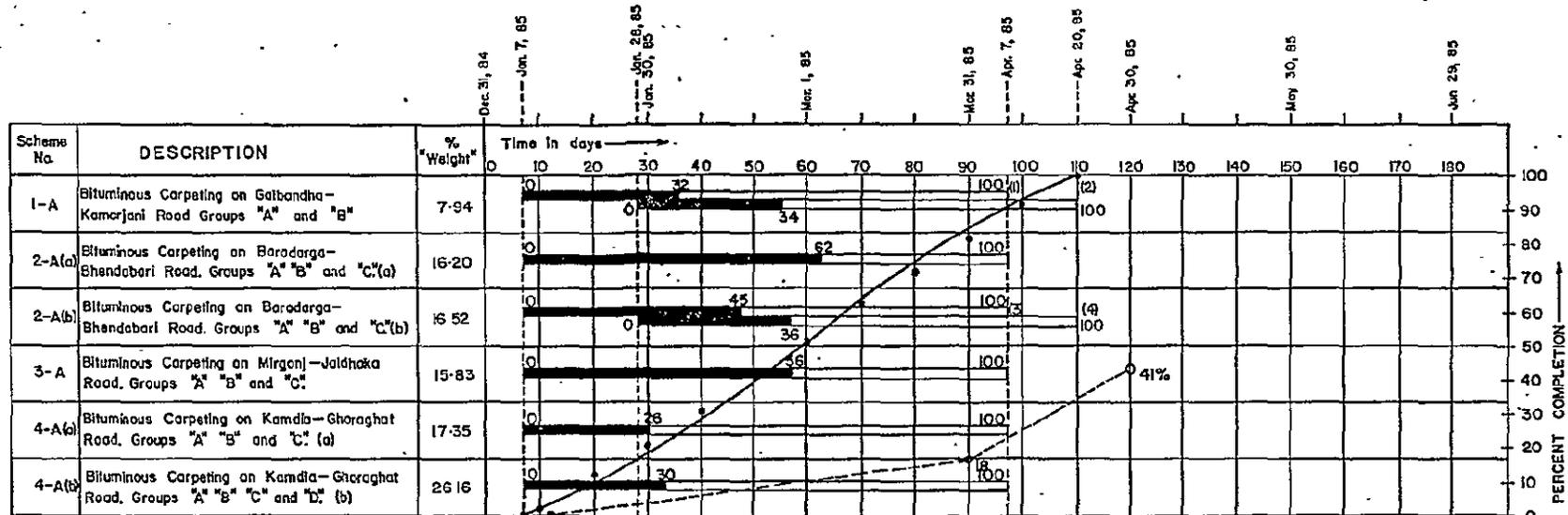
(2) Groups B and C: March 10, 1984
 Group A: Dec. 4, 1984
 Group D: Dec. 18, 1984

(3) Groups B and C: June 5, 1984
 Group A: Dec. 31, 1984
 Group D: Dec. 31, 1984

RANGPUR DISTRICT SCHEMES 1984-1985 ROADS CONSTRUCTION

Estimated Cost: Tk. 1,02,85,000.00
 Contract Cost: Tk. 1,14,65,933.00
 Scheduled Starting Dates: Jan. 7, and 28, 1985
 Actual Starting Dates: Jan. 11, 85
 Scheduled Completion Dates: Apr. 7 and 20, 1985

Scheduled Progress
 Actual Progress



Notes: (1) Group "A". (2) Group "B". (3) Group "A" and "B". (4) Group "C".

(5) Gaibandha-Kamarjani and Kamdia-Ghoraghat Roads have been subdivided into two Schemes each.

**RANGPUR DISTRICT
SCHEMES 1984-85
BRIDGES AND CULVERTS CONSTRUCTION.**

Estimated Cost: Tk. 15,90,000.00

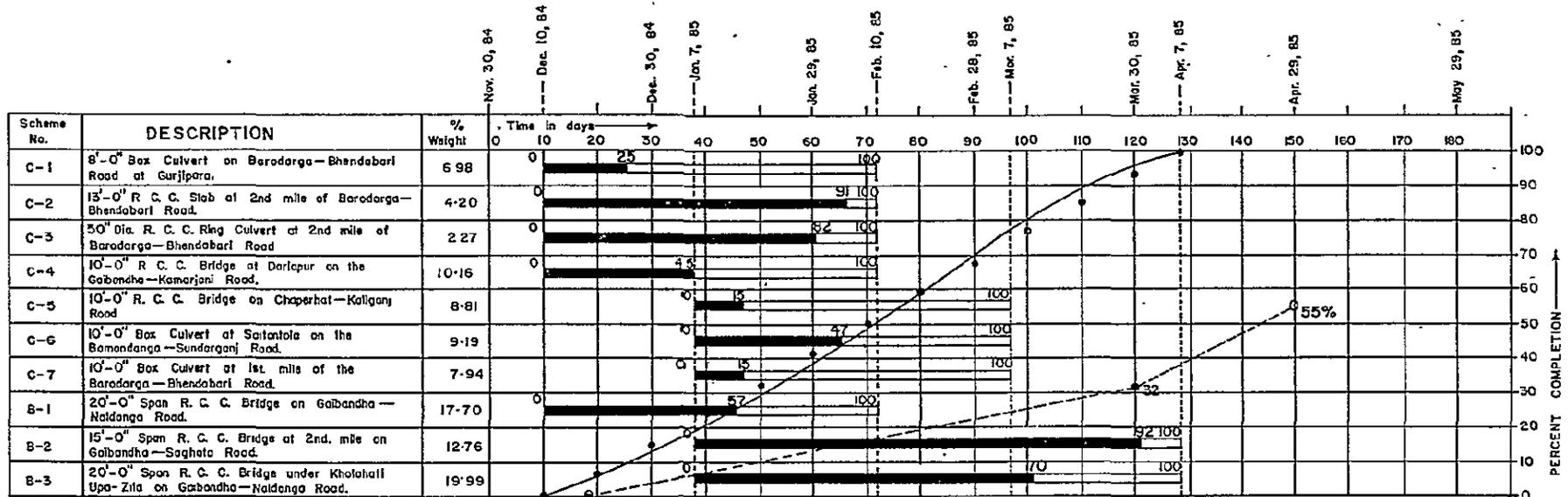
Contract Cost: Tk. 15,89,153.00

Scheduled Starting Dates: Dec. 10, 1984 & Jan. 7, 1985

Actual Starting Dates: Dec. 17, 1984

Scheduled Completion Dates: Feb. 10 & Mar. 7, 1985.

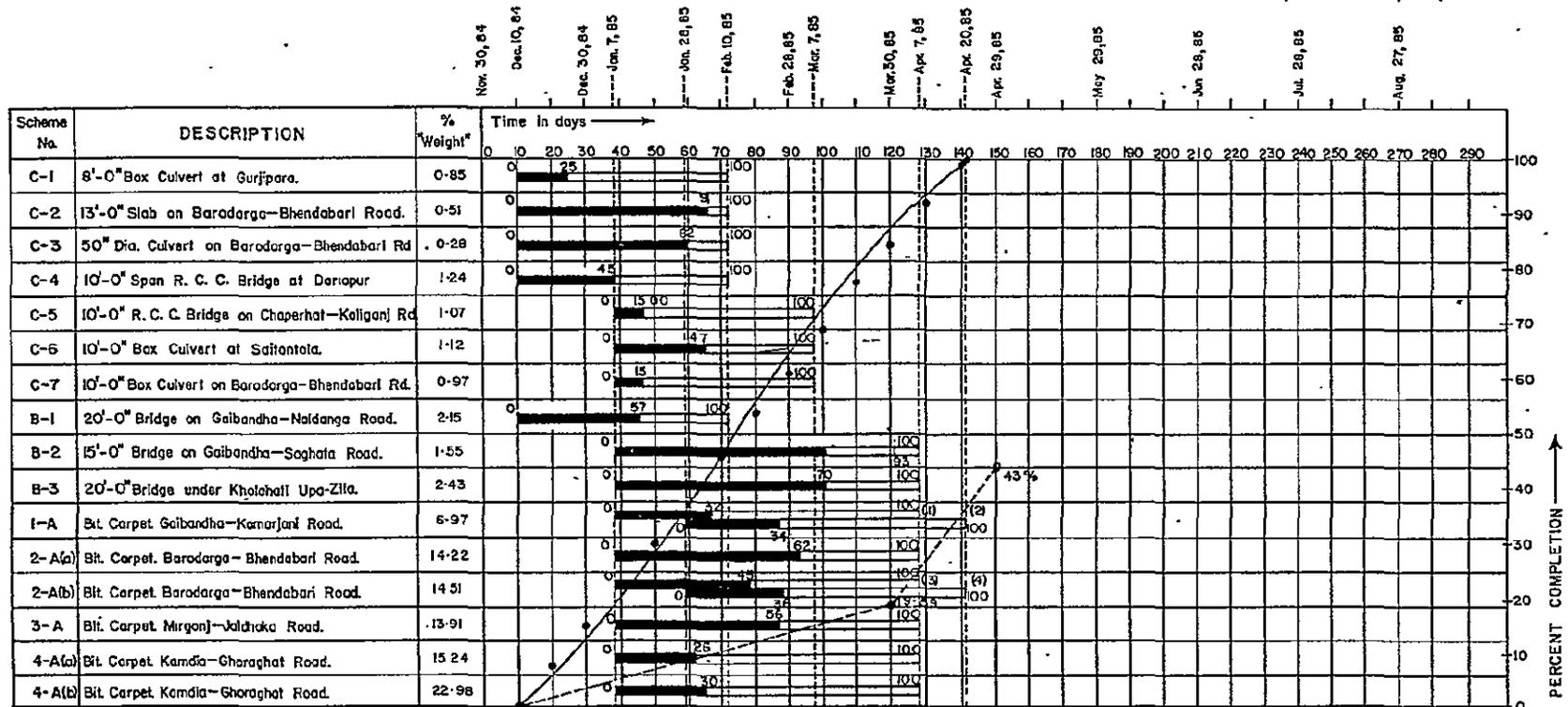
 Scheduled Progress
 Actual Progress.



**RANGPUR DISTRICT
SCHEMES 1984-1985
COMBINED PROGRESS CHART**

Estimated Cost: Tk.1,18,75,000.00
 Contract Cost: Tk.1,30,55,086.00
 Scheduled Starting Date: Dec. 10, 1984
 Actual Starting Dates: Dec. 17, 1984
 Scheduled Completion Dates: Apr. 20, 1985

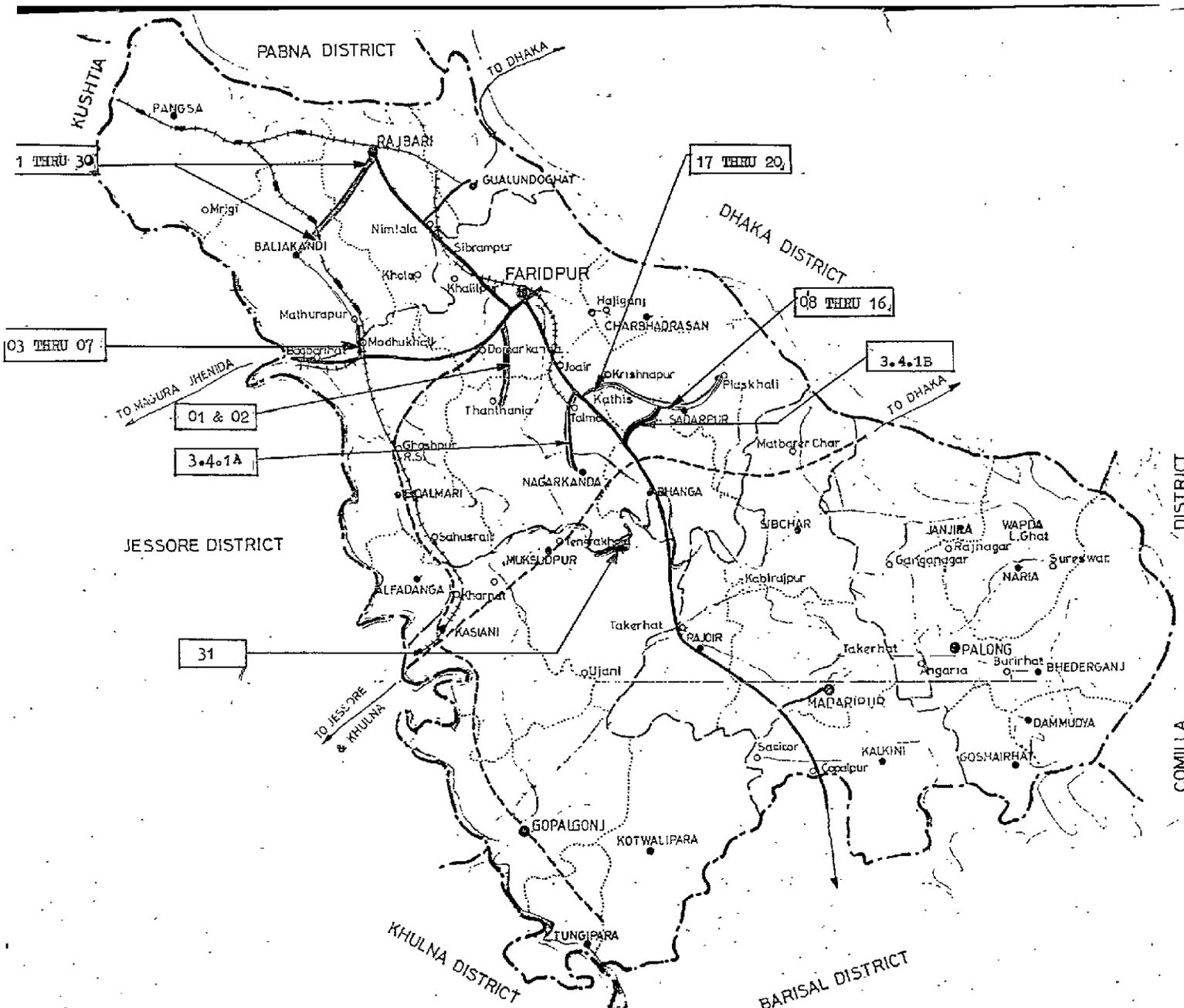
———— Scheduled Progress
 - - - - - Actual Progress



Notes:—(1) Group "A" (2) Group "B" (3) Group "A" and "B" (4) Group "C"

(5) Gaibandha-Komarjani and Kamdia-Ghoraghat Roads have been subdivided into two Schemes each.

EXHIBIT VIII
FARIDPUR DISTRICT



- LEGENDS**
- MAINTENANCE**
- 3.4.1A. TALMA - NAGARKANDA ROAD
 - 3.4.1B. PUKURIA - SADARPUR ROAD
- CONSTRUCTION**
- 01 & 02. BADARPUR - SALATHA ROAD
 - 03 THRU 07. MADHUKHALI - BALIAKANDI ROAD
 - 08 THRU 16. HATKRISHNAPUR - PIASKHALI ROAD
 - 17 THRU 20. TALMA - HATKRISHNAPUR ROAD
 - 21 THRU 30. BALIAKANDI - RAJBARI ROAD
 - 31. DIGNAGAR - NUKSUDPUR ROAD

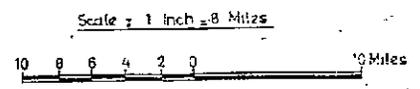


Exhibit IX - CONSTRUCTION SUPERVISION PROJECTS - FARIDPUR

Sheet 1 of 5

Serial Number	Contract Identification	Description Of Work Order	Percent Complete	Current Comments
<u>Badarpur - Saltha Road</u>				
<u>1982 - 1983 Projects</u>				
01		Bituminous pavement, 7,150 ft. Final Expenditure: Tk. 1,935,027	100	Final payment processed
<u>1983 - 1984 Projects</u>				
02		Bituminous pavement, 7,760 ft. Final Expenditure: Tk. 2,108,729	100	Final payment processed
<u>Madhukhali - Baliakandi Road</u>				
<u>1982 - 1983 Projects</u>				
03		Bituminous pavement, 20,011 ft. Final Expenditure: Tk. 5,816,551	100	Final payment processed
<u>1983 - 1984 Projects</u>				
04	Groups E, F, G, H, & I	Bituminous pavement, 26,400 ft. Final Expenditure: Tk. 8,581,269	100	Final payment processed
05	Group J	Bituminous pavement, 3,535 ft. Final Expenditure: Tk. 1,137,583	100	Final payment processed
<u>1984 - 1985 Projects</u>				
06	ZRMIP/01/84-85, Group K	Bituminous pavement, 5,328 ft. Contractor: Mr. Atiar Rahman Contract Price: Tk 1,400,397.70	100	Final bill presented, processed, and sent to Dhaka for reimbursement.
07	ZRMIP/02/84-85, Group L	Bituminous pavement, 4,454 ft. Contractor: M/S M.N. and Co. Contract Price: Tk 1,169,735.00	42	The contractor has completed 1,650 lin. ft of carpeting. He opted to repair existing WBM by scarifying rather than bituminous crouting.
<u>Hatkrishnapur - Sadarpur - Palajkhali Road</u>				
<u>1983 - 1984 Projects</u>				
08	ZRMIP/01/83-84, Group A	HBB, 7,700 ft. Final Expenditure: Tk. 1,490,021	100	Final payment processed
09	ZRMIP/10/83-84, Group D	HBB, 3,700 ft. Final Expenditure: Tk. 548,595	100	Final payment processed
10	ZRMIP/13/83-84, Group E	HBB, 9,319 ft. Final Expenditure: Tk. 1,343,725	100	Final payment processed.

Exhibit IX - CONSTRUCTION SUPERVISORY PROJECTS - FARIDPUR

Sheet 2 of 5

Serial Number	Contract Identification	Description Of Work Order	Percent Complete	Current	Comments
<u>Hatkrishnapur - Sadarpur - Rajkhal Road (Cont.)</u>					
<u>1984 - 1985 Projects</u>					
11	ZKMP/10/84-85, Group B	HBB, 11993 ft Contractor: Mr. A. Nasir Mia Contract Price: Tk 2,755,614	58		<u>The contractor has completed 8,200 lin. ft of HBB pavement.</u>
12	ZKMP/11/84-85, Group C	HBB, 5966.5 ft (Revised to 11,935 ft) Contractor: Mir Akter Hossain and Co. Contract Price: Tk 1,400,394 Revised Price: Tk 2,800,788	68		<u>The XEN has issued a change order revising the length of this section.</u> <u>Some 7,050 lin. ft are complete.</u> <u>One interim billing has been processed.</u>
13	ZKMP/15/84-85	RCC bridge, 49 ft (Majumdar) Contractor: Mr. Atiar Rahman Contract Price: Tk 587,860	05		<u>Abutment excavation is complete, and pilings have been driven.</u>
14	ZKMP/26/84-85	RCC bridge, 30 ft (Taltala) Contractor: Mr. K.M. Ibrahim Contract Price: Tk 624,015	---		<u>This contract was canceled by change order. Sadarpur Upazila has</u> <u>decided to close this channel.</u>
15	ZKMP/56/84-85	RCC bridge, 30 ft Contractor: M/S Mir Akhter Hossain and Ltd. Contract Price: Tk 980,400	02		<u>Abutment excavation is complete, and the contractor is preparing to</u> <u>drive piling.</u>
16	ZKMP/27/84-85	RCC bridge, 30 ft (Khalga) Contractor: M/S S.S. Construction Contract Price: Tk 564,604	37		<u>Both footings are complete and one-third of the abutments have been</u> <u>poured. Blinding for the wingwalls has been poured and the brick work</u> <u>has been started.</u> <u>One interim billing has been processed.</u>

Exhibit IX - CONSTRUCTION SUPERVISION PROJECTS - FARIDPUR

Sheet 3 of 5

Serial Number	Contract Identification	Description Of work Order	Percent Complete	Current Comments
<u>Talma - Hatkrishnapur Road</u>				
<u>1984 - 1985 Projects</u>				
17	ZRHIP/05/84-85, Group A	Bituminous Pavement, 5280 lin. ft Contractor: Mr. A. Rahim Mia Contract Price: Tk 1,838,114	<u>48</u>	<u>This project is complete through WEM.</u>
18	ZRHIP/06/84-85, Group B	Bituminous Pavement, 5280 lin. ft Contractor: M/S Mir Akter Hossain and Co. Contract Price: Tk 1,633,023.70	<u>60</u>	<u>This project is complete through WEM. The contractor has processed his stone chips off site.</u> <u>One interim billing has been processed.</u>
19	ZRHIP/07/84-85, Group C	Bituminous Pavement, 5280 lin. ft Contractor: Mr. Kh. Enayet Hossain Contract Price: Tk 1,645,590	<u>60</u>	<u>This project is complete through WEM. The contractor has processed his stone chips off site.</u> <u>Two interim billings have been processed.</u>
20	ZRHIP/08/84-85, Group D	Bituminous Pavement, 4074 lin. ft Contractor: M/S Mir Akter Hossain and Co. Contract Price: Tk 1,298,460	<u>20</u>	<u>1,950 lin. ft excavation is complete, 1,650 lin. ft of sand cushion, edging, and soling are complete, and 350 lin. ft of WEM are complete.</u>
<u>Saliakandi - Rajbari Road</u>				
<u>1984 - 1985 Projects</u>				
21	ZRHIP/14/84-85, Group 1	Bituminous pavement, 1600 lin. m Contractor: Kh. Nazmul Hossain and Co. Contract Price: Tk 2,035,185	<u>40</u>	<u>Excavation, sand cushion, soling, and edging are complete. 400 m of WEM remain to be compacted.</u> <u>One interim payment has been processed.</u>
22	ZRHIP/15/84-85, Group 2	Bituminous pavement, 1600 lin. m Contractor: Mr. Taser Ali Bepari Contract Price: Tk 1,741,350	<u>48</u>	<u>Project is complete through WEM. Aggregates for carpeting are being processed.</u>
23	ZRHIP/16/84-85, Group 3	Bituminous pavement, 1,600 lin. m Contractor: M/S Ghose Brothers Contract Price: Tk 1,613,765	<u>48</u>	<u>Project is complete through WEM. Aggregates for carpeting are being processed.</u> <u>One interim payment has been processed.</u>

Exhibit IX - CONSTRUCTION SUPERVISION PROJECTS - FARIDPUR

Sheet 4 of 5

Serial Number	Contract Identification	Description Of work Order	Percent Complete	Current Comments
<u>Baliakandi - Rajbari Road (Cont.)</u>				
<u>1984 - 1985 Projects (Cont.)</u>				
24	LRLP/17/84-85, Group 4	Bituminous pavement, 1600 lin. m Contractor: Mr. Kazi Eradat Ali Contract Price: Tk 1,826,280	48	<u>Project is complete through WBM. Aggregates for carpeting are being processed.</u> <u>One interim bill has been processed.</u>
25	LRLP/18/84-85, Group 5	Bituminous pavement, 1600 lin. m Contractor: Mr. Kazi Eradat Ali Contract Price: Tk 2,035,185	48	<u>Project is complete through WBM.</u> <u>One interim payment has been processed.</u>
26	LRLP/19/84-85, Group 6	Bituminous pavement, 1600 lin. m Contractor: Md. Akbar Ali Contract Price: Tk 1,699,550	100	<u>This project is complete and awaits documentation for final payment.</u> <u>One interim payment has been processed.</u>
27	LRLP/20/84-85, Group 7	Bituminous pavement, 540 lin. m Contractor: Mr. N.K. Mukharjee Contract Price: Tk 557,688.04	48	<u>Project is complete through WBM. Aggregates for carpeting have been processed.</u> <u>One interim payment has been processed.</u>
28	LRLP/21/84-85, Group 8	Bituminous pavement, 1,423 lin. m Contractor: Mr. N.K. Mukharjee Contract Price: Tk 705,878.28	40	<u>500 m of carpeting are complete. Awaiting roller to complete WBM restoration.</u> <u>One interim payment has been processed.</u>
29	LRLP/22/84-85,	Bridge approach, borei bridge Contractor: Mr. Emdadul Hoque Contract Price: Tk 669,940	100	<u>This approach is complete and awaits documentation for final payment.</u> <u>One interim payment has been processed.</u>
30	LRLP/23/84-85	Bridge approach, Matiapara bridge Contractor: Mr. S.M. Emdadul Hoque Contract Price: Tk 290, 130	100	<u>This approach is complete and awaits documentation for final payment.</u> <u>One interim payment has been processed.</u>

Exhibit IA - CONSTRUCTION SUPERVISION PROJECTS - FARIDPUR

Sheet 5 of 5

Serial Number	Contract Identification	Description of Work Order	Percent Complete	Current Comments
<u>Lignagar - Maksudpur Road</u>				
<u>1984 - 1985 Projects</u>				
31	ZKRIE/24/E4-85	Bridge approach, Managram Bridge Contractor: Mr. A. Bari Mia Contract Price: Tk 758,800	<u>50</u>	<u>The pilings and footings are complete, and 53 percent of the abutment concrete works are complete.</u> <u>One interim payment has been processed.</u>

E X H I B I T X

BAR CHARTS, PROJECT SCHEDULES, AND

CURRENT STATUS

FARIDPUR DISTRICT

**FARIDPUR
MADHUKHALI - BALIAKANDI
ROAD
ALL GROUPS
84-85 SCHEMES**

DATE : 30th April
% COMPLETION :
SCHEDULED = 90%
ACTUAL = 80%

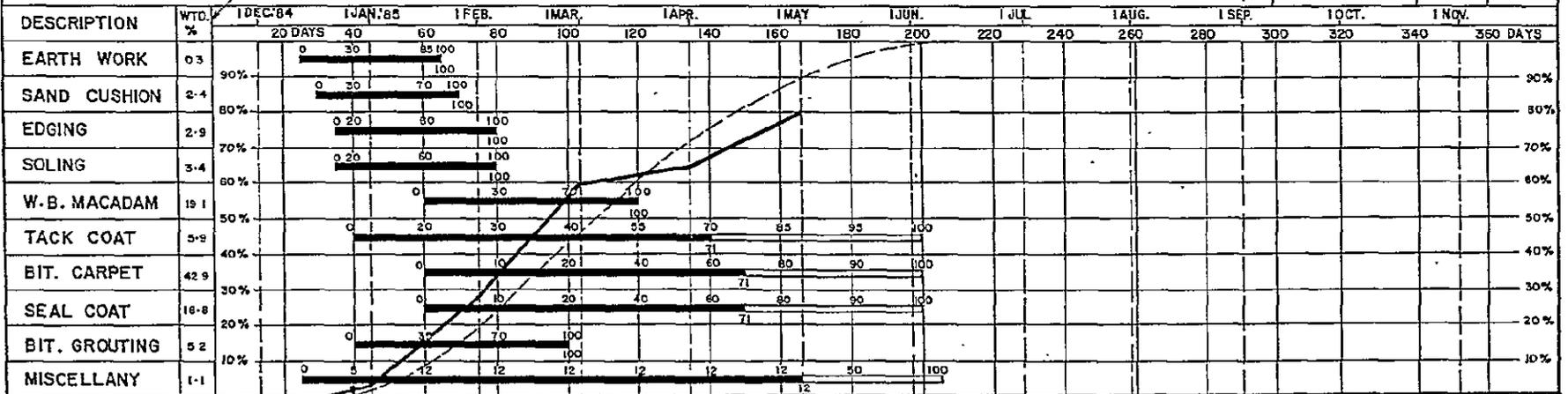
LEGEND

 SCHEDULED PROGRESS
 ACTUAL PROGRESS
 AUTHORIZED TIME EXT.

CONTRACT DATA

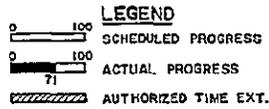
TOTAL	GROUP	K	L
9782 L.F.	LENGTH	5328 L.F.	4454 L.F.
25,70,132	COST (T)	14,00,397	11,59,736
WORK ORDER DATE	18 NOV.84	18 NOV.84	18 NOV.84
BEGIN WORK	13 DEC.84	13 DEC.84	13 DEC.84
SCHED COMP	11 JUN.85	11 JUN.85	11 JUN.85
ACTUAL COMP	24 FEB.85		
TIME EXT.			

WORK ORDER DATE
13, NOV. '84.



FARIDPUR
HATKRISHNAPUR - SADARPUR-PIAJKHALI
GROUPS B & C
84-85 SCHEMES

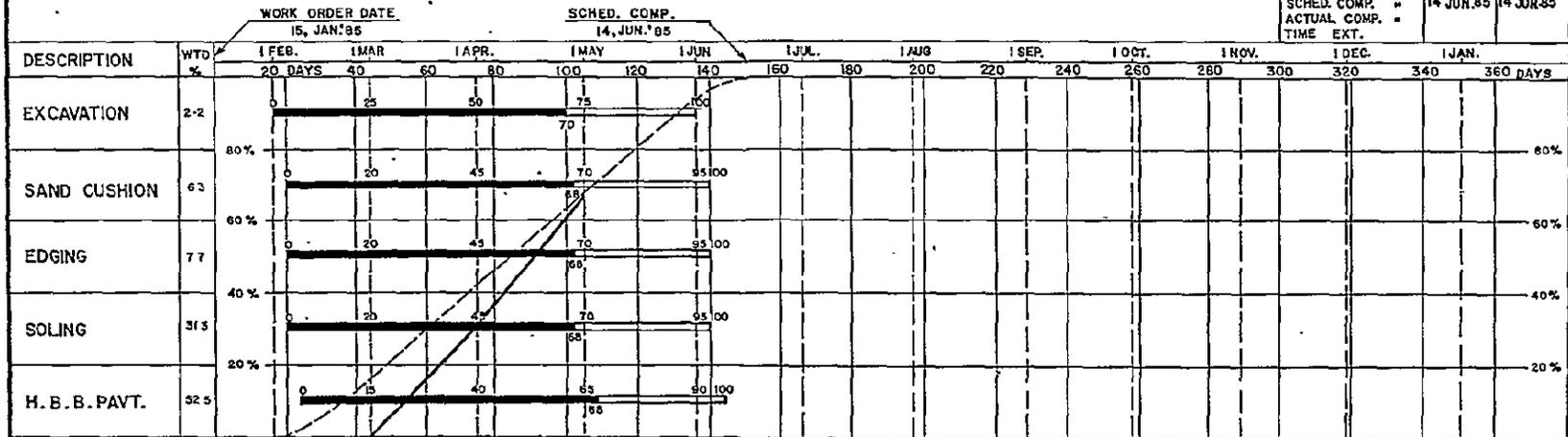
DATE : 30th April '85
% COMPLETION :
SCHEDULED = 68 %
ACTUAL = 66 %



NOTE:
LENGTH OF GROUP-C CHANGED.
TO 11,953 L.F. BY CHANGE ORDER

CONTRACT DATA

TOTAL	GROUP	B	C
17,959.5 L.F.	LENGTH	11,993 L.F.	5,966.5 L.F.
4,156.008	COST (TK)	27,55,614	14,00,394
WORK ORDER DATE	15 JAN 85	15 JAN 85	15 JAN 85
BEGN WORK "	1 FEB. 85	1 FEB. 85	1 FEB. 85
SCHED. COMP. "	14 JUN. 85	14 JUN. 85	14 JUN. 85
ACTUAL COMP. "			
TIME EXT.			



**FARIDPUR
BALIAKANDI - RAJBARY
ROAD
ALL GROUPS
84-85 SCHEMES**

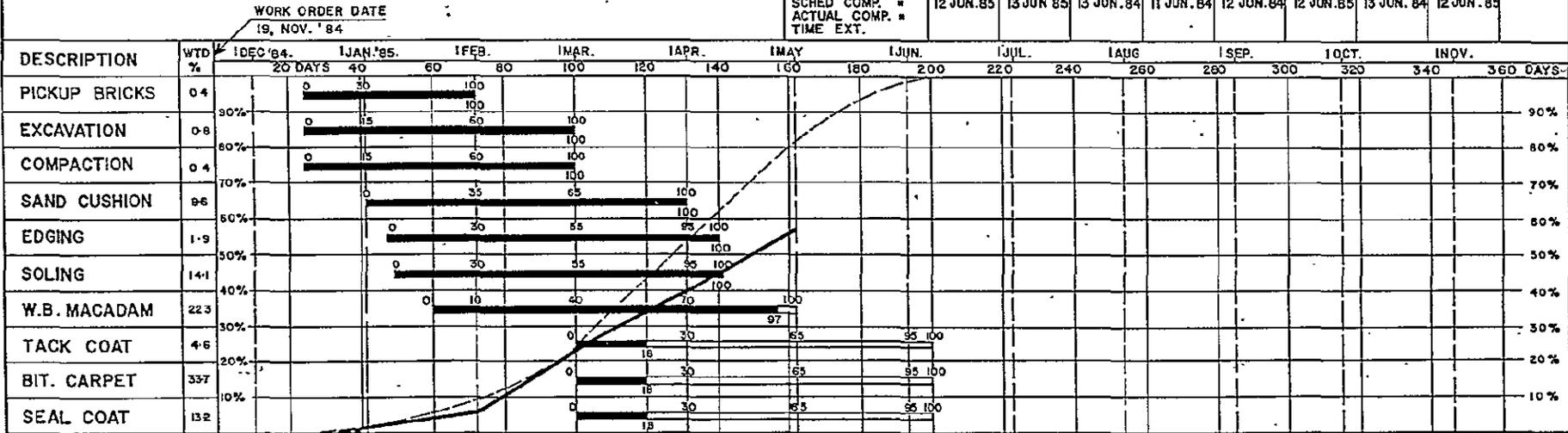
DATE : 30th. April '85
% COMPLETION :
SCHEDULED = 82%
ACTUAL = 57%

LEGEND

 0 100 SCHEDULED PROGRESS
 0 100 ACTUAL PROGRESS
 71 AUTHORIZED TIME EXT.

CONTRACT DATA

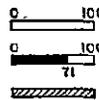
TOTAL	GROUP	1	2	3	4	5	6	7	8
11563 m. (22)5395	LENGTH COST(TK)	1600 m. 20,35,185	1600 m. 17,41,350	1600 m. 16,13,765	1600 m. 18,26,280	1600 m. 20,35,185	1600 m. 16,99,950	540 m. 5,57,802	1425 m. 7,05,878
WORK ORDER DATE	BEGIN WORK *	19 NOV.84	20 NOV.84	20 NOV.84	18 NOV.84	19 NOV.84	19 NOV.84	20 NOV.84	19 NOV.84
SCHED COMP. *	ACTUAL COMP. *	14 DEC.84	15 JUN.85	15 DEC.84	13 DEC.84	14 DEC.84	14 DEC.84	15 DEC.84	14 DEC.84
TIME EXT.		12 JUN.85	13 JUN.85	13 JUN.84	11 JUN.84	12 JUN.84	12 JUN.85	13 JUN.84	12 JUN.85



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**FARIDPUR
BRIDGE APPROACHES
BONAGRAM - HORAI - MATIAPARA
84 - 85 SCHEMES**

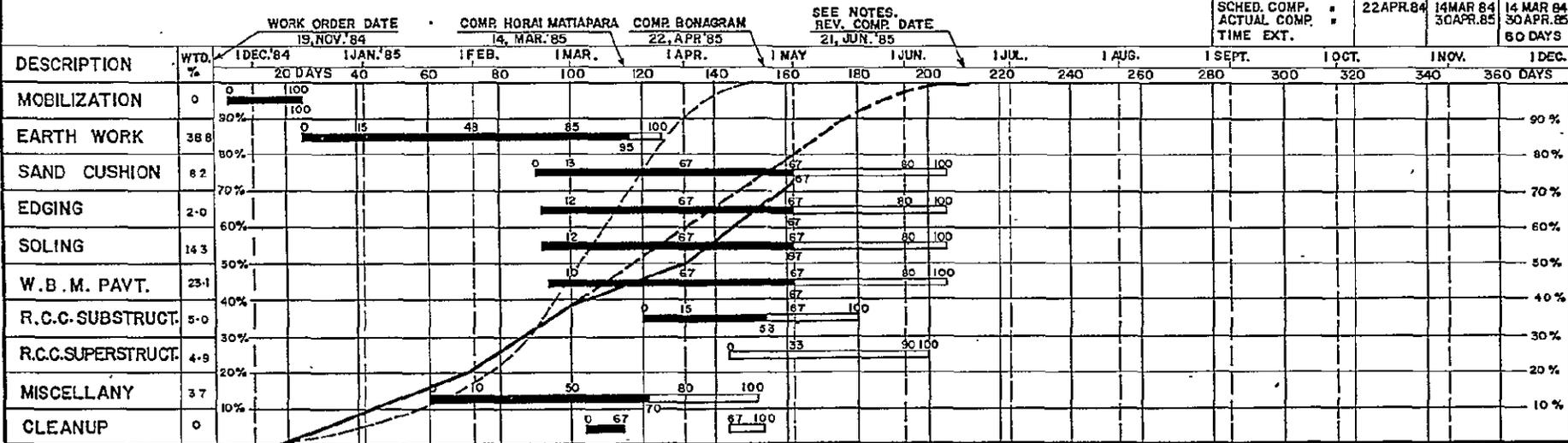
DATE: 30th. April '85
% COMPLETION:
SCHEDULED = 80%
ACTUAL = 74%

LEGEND

 SCHEDULED PROGRESS
 ACTUAL PROGRESS
 AUTHORIZED TIME EXT.

NOTES:
 1. BONAGRAM APPROACHES CHANGED TO R.C. SPANS.
 2. BAR CHART REVISED 25, MARCH '85.

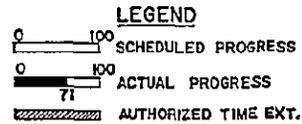
CONTRACT DATA

TOTAL	BRIDGE	BONAGRAM	HORAI	MATIAPARA
1045m.	LENGTH	410 m.	410 m.	225 m.
18,45,165	COST(TK)	8,85,000	6,69,940	2,90,225
WORK ORDER DATE	29 NOV 84	19 NOV.84	19 NOV.84	19 NOV.84
BEGIN WORK	23 DEC.84	14 DEC.84	14 DEC.84	14 DEC.84
SCHED. COMP.	22 APR.84	14 MAR.84	14 MAR.84	14 MAR.84
ACTUAL COMP.		30 APR.85	30 APR.85	30 APR.85
TIME EXT.				60 DAYS



FARID PUR
ALL SCHEMES
AND
MAINTENANCE
84-85

DATE: 30th. April '85
% COMPLETION:
SCHEDULED = 82%
ACTUAL = 54%



DESCRIPTION	COST (LAC)	WTD %	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
MADHUKHALI-BALIAKANDI	25.70	83	20	46	72	90	98	100						
BALIAKANDI- RAJBARY	122.15	393	10	25	54	80	82	98						90%
TALMA-HATKRISHNAPUR	64.15	207	10	26	54	82	87	100						80%
HATKRISHNA PUR-SADARPUR	41.56	13.4	0	17	40	42	68	88						70%
BRIDGE APPROACHES	18.45	5.9	18	47	60	100	70	90						60%
BRIDGES	27.51	89	0	20	20	72	80	100						50%
PILOT MANTENANCE	10.88	3.5	10	35	55	65	95	100						40%
														30%
														20%
														10%

7.0 PROCUREMENT OF EQUIPMENT

7.1 Local Procurement

7.1.1 Tar Boilers

Still waiting for acceptance of AID/PIL by BDG so that orders can be placed.

7.1.2 Trailer-Mounted Water Tanks

All six units have been delivered to Dhaka. Two units have been sent to Sylhet District, and one unit has been sent to Rangpur District. The remaining unit for Rangpur, and the two units for Faridpur, will be sent as soon as arrangements can be made to tow them with the respective District Jeep.

7.2 International Procurement

7.2.1 Heavy Equipment, Vehicles, And Tools

All specifications and bidding procedures are now being rechecked for compliance with BDG specifications and rules so that LGEB can grant final authorization for procurement.

7.2.2 WSA Office Vehciles

To date, the two WSA office vehicles, a sedan and a minibus, have not been purchased. The basic problem standing in the way of the purchases has been that of who will pay, or arrange for exemption of, the duty.

8.0 PERSONNEL

The current status of all personnel (WSA/BCL/PAS) is shown in tabular form in Attachment B. Problems in connection with personnel assignments are discussed in the following section.

9.0 PROBLEMS AND PROPOSED SOLUTIONS

9.1 Organization And Management

Most of the problems discussed in previous monthly reports have been solved. However, the problem of lack of communication between the XEN's office in Rangpur and the Rangpur RE's office still persists. The incumbent RE will be completing his assignment and departing the post in May 1985. Perhaps the arrival of a new RE will prove to be the long-sought catalyst to reestablish communications between these two key offices.

9.2 Maintenance System And Supervision

No comments on the maintenance manual, which was submitted in January 1985, have yet been received. Therefore, it is assumed that there will be no comments, and arrangements are being made to complete the final printing before the end of June 1985.

9.3 Preparation Of Technical Specifications

Since these documents have already been submitted in draft form, it is assumed that there will be no further comments. Therefore, the final printing of these reports is also scheduled for the end of June 1985.

9.4 Training

The immediate critical problem in training is the BDG approval and clearance of the 15 participants scheduled for the second AIT training session in Bangkok, Thailand.

9.5 Construction System And Supervision

As of the end of this reporting period, there were no pressing problems in this category.

9.6 Procurement Of Equipment

It now appears that all hurdles have been cleared and that BDG approval for equipment procurement will be forthcoming in late May or early June.

9.7 Personnel

At the moment, there are no significant personnel problems.

9.8 Miscellaneous

There are no specific problems of this category.

10.0 MISCELLANEOUS

The Monthly Financial Statement is included as Attachment C.


Fred L. Barnes
Chief of Party

A T T A C H M E N T A

DISTRICT SOIL LABORATORY ACTIVITIES

SYLHET, RANGPUR, FARIDPUR

LABORATORY ACTIVITIES OF SYLHET DISTRICT FOR THE
MONTH OF APR.'85.

Name of road and location from where materials collected	Sample no.	Wt. of Cube/ Cylinder.	Size of sample.	Slump.	Proportion of mix.	Age in days.	Load in lbs.	Compressive strength in PSI	Remarks.
Fenchuganj-Gilachara Road(Top Slab).	S ₂₁	-	6"Øx12"	3"	1:2:4	39	64,000	2264.7	Fine aggregates (F.M.= 1.78) + Coarse aggregates (20 mm-30mm down graded)+ Chatak cement. Sample of 2nd Box culvert. -ditto- Sample of 4th Box culvert.
		-	6"Øx12"	3"	1:2:4	39	61,000	2158.5	
-ditto-	S ₂₂	-	6"Øx12"	3½"	1:2:4	29	58,000	2052.4	
		-	6"Øx12"	3½"	1:2:4	29	57,000	2017.0	

LABORATORY ACTIVITIES OF SYLHET DISTRICT FOR THE MONTH OF APR. '85.

Name of road and location from where materials collected.	Test for Bricks.		F.M. of sand/ Pea gravels.	R e m a r k s.
	Size.	Water absorbed % of dry wt.		
Tajpur- Khadipur-Syedpur Road. Nayabondar bridge- Sample S ₉₅ .	-	-	F.M. 1.85	Sample tested for R.C.C. work.
Dhakadakshin-Beanibazar Road. Radhajuri bridge- Sample S ₉₆ .	-	-	F.M. 2.96	-ditto-
Dhakadakshin-Beanibazar Road. Lula River Bridge Site(Kushiara Sand)- Sample S ₉₇ .	-	-	F.M. 1.46	-ditto-
Dhakadakshin-Beanibazar Road. Lula River Bridge Site (Shari Sand)- Sample S ₉₈ .	-	-	F.M. 3.08	-ditto-
Dhakadakshin-Beanibazar Road. Lula River Bridge Site- Sample S ₉₉ .	-	-	F.M. of fine sand (S ₉₇) and F.M. of coarse sand(S ₉₈)- F.M.=2.31.	Trial mix of 2:1 proportion of fine and coarse sand. Recommended sand for RCC work.

LABORATORY ACTIVITIES OF RANGPUR DISTRICT FOR THE MONTH OF APR. '85.

Name of road and location from where materials collected.	Test Result	Grading of pea gravels and stone chips by % of finer by sieve analysis.											Remarks.	
		Sieve 1"	Sieve 3/4"	Sieve 1/2"	Sieve 3/8"	Sieve 1/4"	Sieve no.4	Sieve no.8	Sieve no.10	Sieve no.16	Sieve no.40	Sieve no.80		Sieve no.200.
Rangpur-Badarganj Road at the place of Nespiganj.	F.M. 1.45	-	-	-	-	-	-	-	-	-	-	-	-	Test was performed to find out well graded sand for CBR. But the sand was not suitable.
Rangpur-Badarganj Road at the place of Sheal Khoaghat.	F.M. 1.45	-	-	-	-	-	-	-	-	-	-	-	-	-ditto-
Under construction building in front of WSA office. (Daliwa sand).	F.M. 2.13	-	-	-	-	-	-	-	-	-	-	-	-	-ditto-
Gaibandha-Saghata road. 15' Span slab bridge Site.	F.M. 2.42	-	-	-	-	-	-	-	-	-	-	-	-	May be used for the desired works.
-ditto-	F.M. 1.70	-	-	-	-	-	-	-	-	-	-	-	-	-ditto-
Jummapara, Rangpur.	F.M. 1.11	-	-	-	-	-	-	-	-	-	-	-	-	Follows the requirements.
-ditto-		-	-	100	100	95.00	78	56.25	-	0.10	-	-	-	Pea gravels for Maintenance Scheme.
-ditto-		100	100	55.0	-	-	15.0	-	1.67	-	0.34	0.15	.04	Stone shingles for Maintenance Scheme.
Naldanga- Sample for Brick work of 20' Span Bridge.	F.M. 1.37	-	-	-	-	-	-	-	-	-	-	-	-	Does not follow the specification.
-ditto-	F.M. 1.15	-	-	-	-	-	-	-	-	-	-	-	-	-ditto-
Baredarga-Bhendabari Road. 8' Span bridge Site. (Sample collected from coarse sand stack).	F.M. 2.24	-	-	-	-	-	-	-	-	-	-	-	-	-ditto- (Coarse sand stack).
-ditto- (Sample collected from Local sand stack).	1.56	-	-	-	-	-	-	-	-	-	-	-	-	-ditto- (Local sand stack).

LABORATORY ACTIVITIES OF RANGPUR DISTRICT FOR THE
MONTH OF APR. '85.

Name of road/khal and location.	Test Result	Sieve /Hydro-meteor analysis.			Atterberg limits.			Field density.		Compaction test.		% Compaction.		C.B.R. (%)		Remarks.
		Sand (%)	Silt (%)	Clay (%)	L.L. (%)	P.L. (%)	P.I. (%)	γ_d kg/m ³	W (%)	M.D.D. (kg/m ³)	O.M.C (%)	Modi-fied.	Stan-dard.	Unsoa-ked.	Soa-ked.	
Rangpur-Badarganj Road(Nespattganj).		90	6	4	-	-	-	-	-	1815	7.6	-	-	38	-	Sand,silt and clay were mixed in the laboratory in different ratios to find out the right proportion of mixture for higher CBR value intended to be used for test sections in Maintenance Scheme. Test is continuing.
-ditto-		86	6	8	-	-	-	-	-	1972	7.3	-	-	69.17	-	
Infront of our Office new construction building.		86	6	8	-	-	-	-	-	2040	8.0	-	-	56.67	-	

γ_d = Dry density.
W = Water content.
MDD = Max dry density.
O.M.C = Optimum water content.

LABORATORY ACTIVITIES OF RANGPUR DISTRICT FOR THE
MONTH OF APR.'85.

Name of road and location from where materials collected	Sample no.	Wt. of Cube/ Cylinder.	Size of sample.	Slump.	Proportion of mix.	Age in days.	Load in lbs.	Compressive strength in PSI	Remarks.
Bamondanga-Sundarganj Road at Saitontola (10'-0" Span Box Culvert).	-	-	6"φx12"	1.25"	1:2:4	22	64,500	2280.80	Fine aggregats (F.M.= 2.65) + Coarse aggregats (¾" down graded) + Ordinary Portland Cement.
-ditto-	-	-	6"φx12"	1.40"	1:2:4	8	52,500	1856.4	-ditto-
-ditto-	-	-	6"φx12"	1.25"	1:2:4	21	78,000	2758.1	-ditto-
-ditto-	-	-	6"φx12"	1.15	1:2:4	14	57,000	2015.6	-ditto-

LABORATORY ACTIVITIES OF FARIDPUR DISTRICT FOR THE
MONTH OF APRIL ' 85

Name of road and Location from where materials collected.	Sample No.	Wt. of Cube/ Cylinder	Size of Sample	Slump in.	Proportion of mix.	Age in days	Load in lbs	Compressive strength in PSI.	Cylinder Equivalent psi.	Design strength psi
Hatkrishnapur-Piajkhali Road, Khaigo Khal Bridge	A-1/C		6"x6"x6" cube	2.50	1:2:4 Cement: Stone Chips: Sand F.M.2.55	28	157,000	4361	3477	2500
Dignagar-Muksudpur Road Bonogram Bridge	F-1/A		6"x6"x6" cube	2.75	1:1½:3 Cement: Brick aggrega- tes:Sand F.M.1.80	7	1,17,000	3250	2508	
-ditto-	F-1/B		-ditto-	2.75	-ditto-	14	1,28,500	3569	2783	
-ditto-	F-1/C		-ditto-	2.75	-ditto-	28	1,36,000	3777	2964	2500
-ditto-	A-2/A		-ditto-	2.50	-ditto-	7	85,000	2361	1756	
-ditto-	A-2/B		-ditto-	2.50	-ditto-	14	1,09,000	3027	2317	

LABORATORY ACTIVITIES OF FARIDPUR DISTRICT FOR THE MONTH OF APRIL ' 85

Name of road and location from where materials collected.	Brick size	Absorption capacity	F.M. of Sand/ Pea gravels	Water contents (%)	REMARKS.
Hatkrishnapur-Sadarpur-Piajkhali road Group - B	-	-	F.M. = 0.802	-	Local Sand
Rajbari - Baliakandi Road,- Group - 1	-	-	F.M. = 0.998	-	-ditto-
Rajbari - Baliakandi Road,- Group - 3	-	-	F.M. = 1.04	-	-ditto-
Rajbari - Baliakandi Road,- Group - 4	-	-	F.M. = 0.617	-	-ditto-
Rajbari - Baliakandi Road,- Group - 5	-	-	F.M. = 0.71	-	-ditto-
Hatkrishnapur-Sadarpur-Piajkhali Road -Group - B	-	-	F.M. = 0.971	-	-ditto-
Hatkrishnapur-Sadarpur-Piajkhali Road -Group - B	-	-	F.M. = 0.93	-	-ditto-
Talma - Hatkrishnapur -Group - A	-	-	F.M. = 0.963	-	-ditto-
Rajbari - Baliakandi Road,-Matiapara Bridge Approach	-	-	F.M. = 0.16	-	-ditto-
Rajbari-Baliakandi Road, Horai Bridge Approach	-	-	F.M. = 0.935	-	-ditto-
Rajbari-Baliakandi Road,Group - 1	-	-	F.M. = 0.953	-	-ditto-
Hatkrishnapur-Sadarpur-Piajkhali Road - Group - D	-	-	F.M. = 0.81	-	-ditto-

LABORATORY ACTIVITIES OF FARIDPUR DISTRICT FOR THE MONTH OF APRIL ' 85

Name of road/Khal and location.	Test Result	Sieve/Hydromet- er Analysis.			Atterberg Limits			Field Density		Compaction Test		% Compaction		C.B.R. (%)		REMARKS.
		Sand (%)	Silt (%)	Clay (%)	L.L. (%)	P.L. (%)	P.I. (%)	γ_d kg/m ³	W (%)	M.D.D. kg/m ³	O.M.C. (%)	Modi- fied	Stan- dard	Unsoa- ked	Soaked.	
Hatkrishnapur - Sadarpur- Piajkhali, Motakchar.	Sp. Gr. = 2.57	0	64	36	-	-	-	-	-	-	-	-	-	-	-	

γ_d = Dry density
 W = Water content
 MDD = Max dry density
 OMC = Optimum water content

ATTACHMENT B

CURRENT STATUS OF PERSONNEL

CURRENT STATUS OF PERSONNEL

Sheet 1 of 2

Title.	Name.	Status.	Comments.
DHAKA OFFICE.			
Chief of Party.	Fred L. Barnes.	On duty 01/04-30/04	-
Training Adviser.	Gifford E. Rogers.	On duty 01/04-30/04	-
Specification Engineer.	G.Lugenbeel.	On duty 01/04-28/04	Left Country on 28-4-85
Associate C.O.P.	K.M.Huque.	On duty 01/04-40/04	Total 08 working days.
Soil-Materials Lab. Training Specialist.	M.Majid.	On duty 01/04-30/04	Total 16 working days.
Structural Engineer.	M.A.Aziz.	On duty 01/04-30/04	Total 07 working days.
Project Engineer/ Training Coordinator.	A.H.M.Abdullah.	On duty 01/04-30/04	-
Office Engineer.	G.S.M.Habibur Rahman.	On duty 01/04-30/04	-
Asstt.Engineer.	Dr.Kamruzzaman.	On duty 01/04-30/04	Total 05 working days.
Laboratory Engineer.	A.Islam.	On duty 01/04-30/04	-
Draftsman.	Nazimuddin Ahmed.	On duty 01/04-30/04	-
Draftsman.	A.Majid.	On duty 01/04-30/04	-
Administrative Assistant.	Md. Harun.	On duty 01/04-30/04	-
Accountant.	A.K.M.A.Taher.	On duty 01/04-30/04	-
A/cs.Assistant.	M.M.Mohiuddin.	On duty 01/04-30/04	-
Secretary.	Fahmida Chowdhury.	On duty 01/04-30/04	-
Typist.	Andre Sarker.	On duty 01/04-30/04	-
Driver.	E.Hossain.	On duty 01/04-30/04	-
Driver.	F.Rahman.	On duty 01/04-30/04	-
Messenger.	Md. Jamaluddin.	On duty 01/04-30/04	-
Guard.	S.A.Khalifa.	On duty 01/04-30/04	-
Guard.	Md.Babul.	On duty 01/04-30/04	-
Caretaker.	Mokfaruddin Skr.	On duty 01/04-30/04	-
Cleaner.	Anwara.	On duty 01/04-30/04	-
Gardener.	N.Zaman.	On duty 01/04-30/04	-
FARIDPUR.			
Resident Engineer.	N.Ziegler.	On duty 01/04-30/04	-
Assistant Resident Engineer.	A.N.M.R.Habib.	On duty 01/04-30/04	-
Assistant Engineer.	A.Z.M.Amirul Islam.	On duty 01/04-30/04	-
Inventory Engineer.	Shah A. Newaz.	On duty 01/04-30/04	-
Laboratory Technician.	Mizanur Rahman.	On duty 01/04-30/04	-
Surveyor.	Tajul Islam.	On duty 01/04-30/04	-
SubAssistant Engineer.	S.Afrad.	On duty 01/04-30/04	-
Sub-Assistant Engineer.	A.Sayed.	On duty 01/04-30/04	-
Sub-Assistant Engineer.	S.Islam.	On duty 01/04-30/04	-
Draftsman.	M.Rahman.	On duty 01/04-30/04	-
Office Manager/ Accountant.	A.E.M.Kamaluddin.	On duty 01/04-30/04	-
Secretary/Typist.	K.R.Faruk.	On duty 01/04-30/04	-
Driver.	B.A.Mollah.	On duty 01/04-30/04	-
Driver.	N.Ali.	On duty 01/04-30/04	-
Messenger.	S.Alam.	On duty 01/04-30/04	-
Gardener.	J.K.Sheel.	On duty 01/04-30/04	-
Guard.	N.Khan.	On duty 01/04-30/04	-
Guard.	I.Ali.	On duty 01/04-30/04	-

CURRENT STATUS OF PERSONNEL

Sheet 2 of 2

RANGPUR.

Resident Engineer.	R.Andres Tavel.	On duty 01/04-30/04	-
Assistant Resident Engineer.	S.S.Ahmed.	On duty 01/04-30/04	-
Assistant Engineer.	M.A.Samad.	On duty 01/04-30/04	-
Sub-Assistant Engineer.	N.K.Das.	On duty 01/04-30/04	-
Sub-Assistant Engineer.	A.B.M.Zahiruddin.	On duty 01/04-30/04	-
Sub-Assistant Engineer.	Alauddin.	On duty 01/04-30/04	-
Laboratory Technician.	B.Hossain.	On duty 01/04-30/04	-
Surveyor.	Z.Abedin.	On duty 01/04-30/04	-
Draftsman.	S.Hossain.	On duty 01/04-30/04	-
Office Manager/ Accountant.	A.H.Mazumdar.	On duty 01/04-30/04	-
Typist.	R.Kabir.	On duty 01/04-30/04	-
Messenger.	A.E.M.M.Haque.	On duty 01/04-30/04	-
Driver.	Mahbubur Rahman.	On duty 01/04-30/04	-
Guard.	A.Rahman.	On duty 01/04-30/04	-
Guard.	M.Hossain.	On duty 01/04-30/04	-
Caretaker.	G.C.Das.	On duty 01/04-30/04	-
Cleaner/Gardener.	Rashida Begum.	On duty 01/04-30/04	-

SYLHET.

Resident Engineer.	Alex E.Nielson.	On duty 01/04-30/04	-
Assistant Resident Engineer.	K.M.Hasan.	On duty 01/04-30/04	-
Sub-Assistant Engineer.	N.Nabi.	On duty 01/04-30/04	-
Sub-Assistant Engineer.	M.A.Sobhan.	On duty 01/04-30/04	-
Sub-Assistant Engineer.	K.S.Ahmed.	On duty 01/04-30/04	-
Surveyor.	Aminul Karim.	On duty 01/04-30/04	-
Surveyor.	Abu Musa Mia.	On duty 01/04-30/04	-
Laboratory Technician.	N.M. Siddique.	On duty 01/04-30/04	-
Laboratory Technician.	Amjadul Hoque.	On duty 01/04-30/04	-
Draftsman.	M.Giasuddin.	On duty 01/04-30/04	-
Office Manager/ Accountant.	N.S.M. Azizul Haque.	On duty 01/04-30/04	-
Typist.	A.K.M.Munir Ahmed.	On duty 01/04-30/04	-
Driver.	Fakhrul Islam.	On duty 01/04-30/04	-
Messenger.	Elias Ali.	On duty 01/04-30/04	-
Guard.	A.A.Jamadar.	On duty 01/04-30/04	-
Guard.	S.Alam.	On duty 01/04-30/04	-
Cleaner/Gardener/ Caretaker.	Ahmed Miah.	On duty 01/04-30/04	-

A T T A C H M E N T C

MONTHLY FINANCIAL STATEMENT

SUMMARY FISCAL REPORT
Wilbur Smith And Associates Inc.
ZILA ROADS MAINTENANCE AND IMPROVEMENT PROJECT
(USAID CONTRACT NO. 388-0056-02)

<u>Project Components</u>	<u>Budget amount</u>		<u>Previous expenditures</u>		<u>Expenditures-Current</u>		<u>Cumulative expenditures</u>	
	<u>\$ Dollars</u>	<u>Taka</u>	<u>\$ Dollars</u>	<u>Taka</u>	<u>reporting-April, 1985</u>		<u>Dollars</u>	<u>Taka</u>
					<u>\$ Dollars</u>	<u>Taka</u>		
1. Technical assistance ...	2709,030	22,715,634 *	2,186,126	*15,919,886	70,804	744,055	2256,930	16,663,941
2. Equipment ...	674,299	-	78,395	-	22,100	-	78,395	-
3. <u>Training USAID ..</u> <u>BDG</u>	300,000	<u>1,110,850</u> 394,500	* 83,167	*1,064,685	-	-	83,167	1,064,685
4. Road Maintenance Financed by BDG	-	23,095,800	-	-	-	-	-	-
5. Road Development Fund - <u>USAID</u> <u>BDG</u>	3949,182	-	-	38,717,361	-	-	-	38,717,361
	-	35,629,050	-	-	-	-	-	-

* After Reconciliation

Library

APPENDIX I

PHOTOS OF MAINTENANCE AND
CONSTRUCTION ACTIVITIES

FOR THE MONTH OF
APRIL '1985

ZILA ROADS MAINTENANCE
AND IMPROVEMENT PROJECT
(USAID PROJECT NO.388 - 0056)

PHOTOS OF MAINTENANCE ACTIVITIES

Sylhet District

Rangpur District

Faridpur District

SYLHET DISTRICT
MAINTENANCE ACTIVITIES

BAHUBAL - PUTIJURI - BIJNAGHAT ROAD



A view taken in dry weather, of a properly maintained earthen road. Recent heavy rains have not noticeably affected the road surface.



The paved portion of this same road, constructed by the R&H Dept. two years ago. This road is now under the jurisdiction of the Zila Parishad.

SYLHET DISTRICT
MAINTENANCE ACTIVITIES

BADHAGHAT ROAD



A view of the recently completed pavement maintenance. Bare spots on the shoulders are where the shoulders have been trimmed and sloped below the pavement level to allow rain water to run off.

TAJPUR - SYEDPUR - NAYABONDAR ROAD



A view of the recently completed embankment filling and widening done under the FFW program. This picture was taken on 18 April immediately after a heavy rain. The puddles indicate the need for cambering under routine maintenance.

SYLHET DISTRICT
MAINTENANCE ACTIVITIES

NABIGANJ - BANIYACHUNG ROAD - EARTH



A view of the signboard placed at the Nabiganj end of this road. Maintenance had progressed as far as the 5.2 meter culvert under construction at 5.9 Km. when the work was curtailed for insufficient funding.

NABIGANJ - BANIYACHUNG ROAD



A view of the recently maintained portion of this earth road between Barrakhal and Nabiganj. This portion has been subjected to heavy rains and traffic with little deterioration.

RANGPUR DISTRICT
MAINTENANCE ACTIVITIES

RANGPUR -- BADARGANJ ROAD



USAID Evaluation Team, accompanied by other officials, inspected Maintenance work of 1983-84 Project and the work undertaken for 1984-85 Project.



Team members near a rain-cut shoulder of recent origin.

RANGPUR DISTRICT

Laboratory Activities.



Collection of sand sample from Nesbetganj river site for trial section work.



Collection of sand from the river bank near Nesbetganj Bridge.

RANGPUR DISTRICT

Laboratory Activities



Collection of soil sample from Ghaghhot River near
Nesbetganj Bridge.



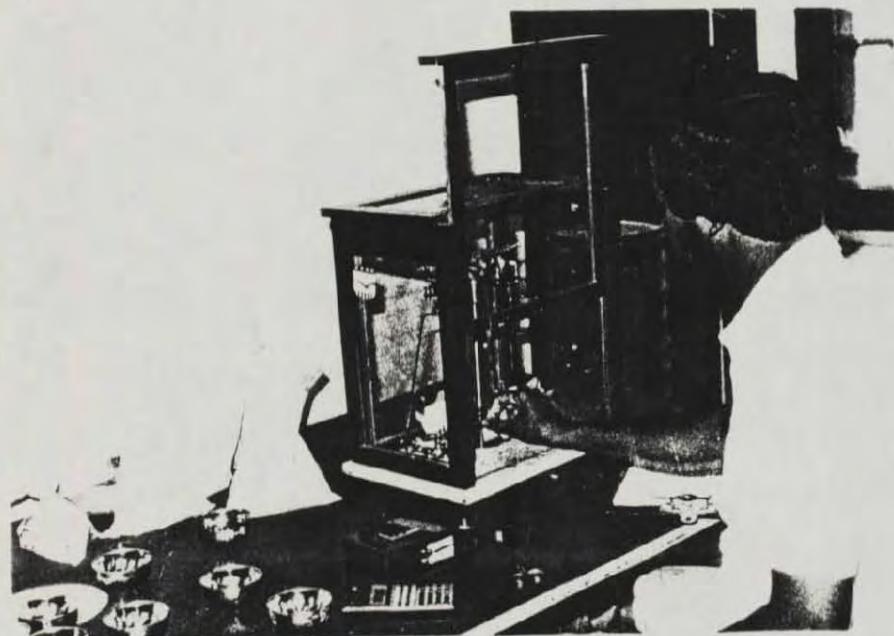
Collection of clay soil from Mominpur Kumarpara,
14.5 Km. from Rangpur.

RANGPUR DISTRICT

Laboratory Activities



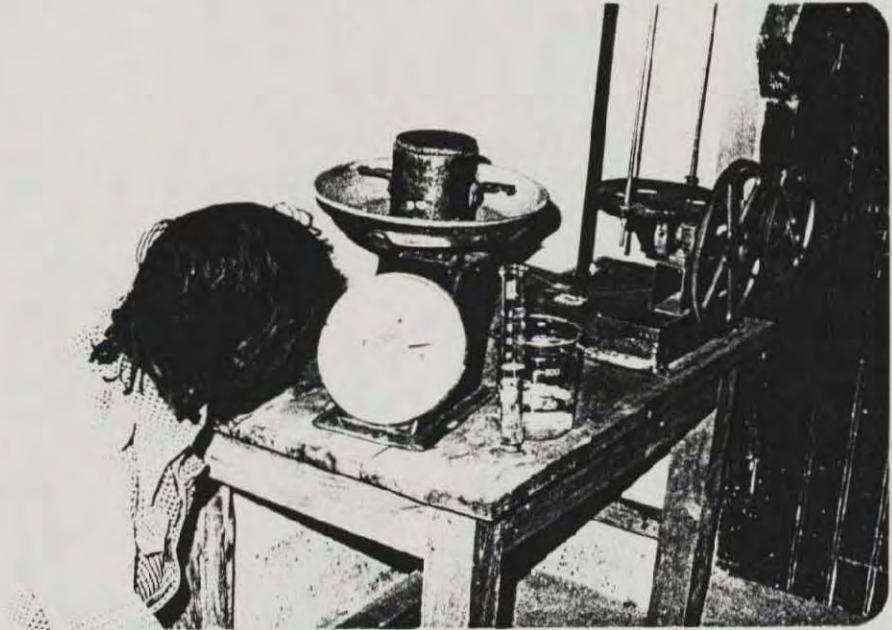
Soil compaction underway to determine dry-density before C.B.R. test is made.



Determination of moisture content of above samples for trial section.

RANGPUR DISTRICT

Laboratory Activities



Weighing the compacted soil for determination of dry-density of soil at O.M.C.



Soil being compacted in the Laboratory for obtaining CBR value for trial section of maintenance scheme.

FARIDPUR DISTRICT
MAINTENANCE ACTIVITIES

PUKURIA - SADARPUR ROAD (1984-85)



A view of present condition of bituminous pavement, April 1985.

PHOTOS OF CONSTRUCTION ACTIVITIES

Sylhet District

Rangpur District

Faridpur District

SYLHET DISTRICT

CONSTRUCTION ACTIVITIES

SHAHBONDAR - SHAMSHERGANJ ROAD



An illustration of the deteriorated pavement section mentioned in the March report. This road had been included in the Maintenance Scheme for 1984-85, but was later deleted for lack of funds. The following pictures show the stage construction work being executed a few kilometers further on.

SYLHET DISTRICT

CONSTRUCTION ACTIVITIES

SHAHBONDAR - SHAMSHERGANJ ROAD



Another illustration of the badly deteriorated pavement section. One more rainy season will complete the destruction of this pavement.

SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

SHAHBONDAR - SHAMSHERGANJ ROAD

ZRMI/9A/84-85 - 2.825 Km. Levelling Course



A view of the construction progress (earth-work) on 18 March 1985. There had been no attempt at uniform levelling or cambering of the embankment material.

ZRMI/9B/84-85.

A view of the typical type of gap left in the earth filling operation because of lack of proper planning for materials.



SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

SHAHBONDAR - SHAMSHERGANJ ROAD

ZRMI/9B/84-85 - 2.825 Km. Levelling Course



Two views of the earth embankment work being executed under this contract. The top picture shows the long range view of the work, and the bottom shows the condition as found on 15 April, 1985.

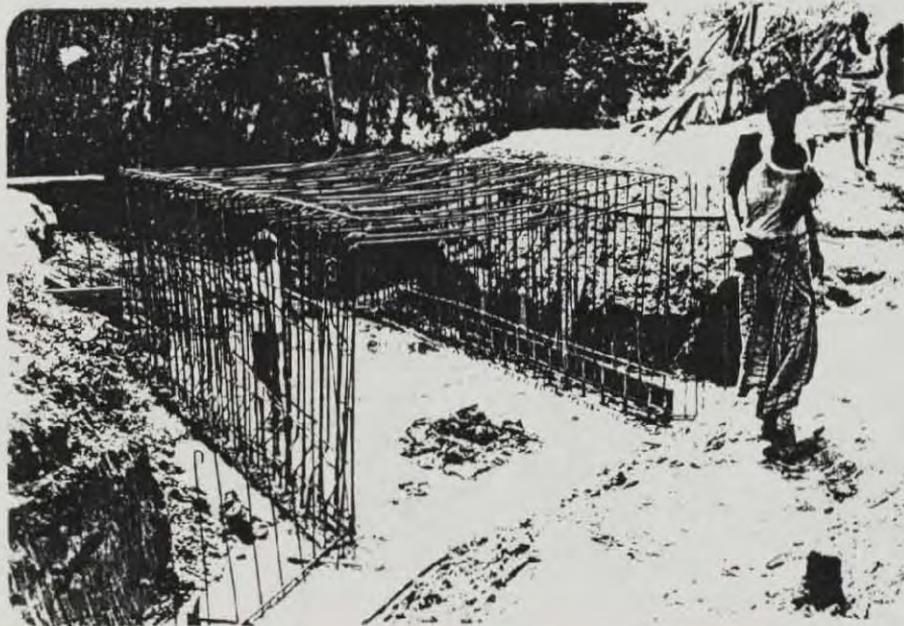
SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

BAHUBAL- PUTIJURI- BIJNAGHAT ROAD

ZRMI/11/84-85



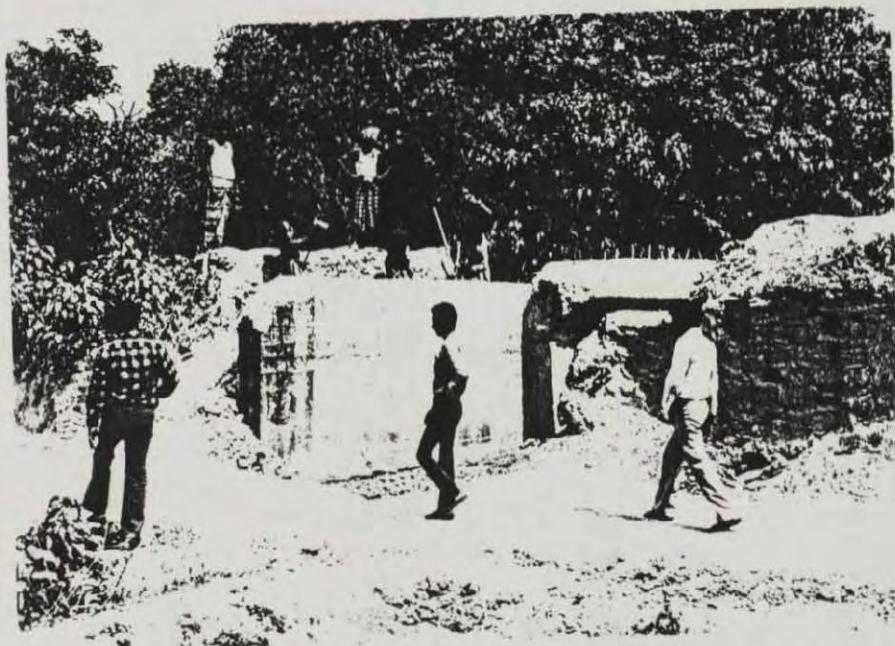
A view of the site excavation, taken on 18 March, 1985.



A view of this same site taken on 2 April, 1985 with the bottom slab completed. Heavy rains in the interim delayed progress. However, the top slab was cast just recently and finishing work is in progress.

SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

BAHUBAL - PUTIJURI - BIJNAGHAT ROAD
ZRMI/12/84-85 - 8 Nos. Bridge Slab



A view, taken on 18 March, of the demolition work required for preparation of the bridge slab. There were approximately 60 centimeters remaining to be demolished on each abutment on that date.

SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

ATGRAM - ZAKIGANJ ROAD
ZRMI/18/82-83 - 2 Km.Bituminous Pavement



Mr. Gene George and the XEN discussing the quality of this 1982-83 Project, which had been completed in 1984.



ZRMI/9/83-84 - 22.98 m. Box Bridge

The COP, XEN, and Mr. Gene George inspecting this structure and approach fill, which had been completed in February, 1985. These pictures were taken on 1 April, 1985.

SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

ATGRAM - ZAKIGANJ ROAD
ZRMI/9/83-84(Contd)

These two pictures were taken of the approaches to this structure following heavy rains between 17 and 25 March, 1985. They illustrate the settling consolidation of uncompacted earth fill when subjected to wet weather conditions.



SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

ATGRAM - ZAKIGANJ ROAD
ZRMI/13/84-85 - 24.4 meter Box culvert



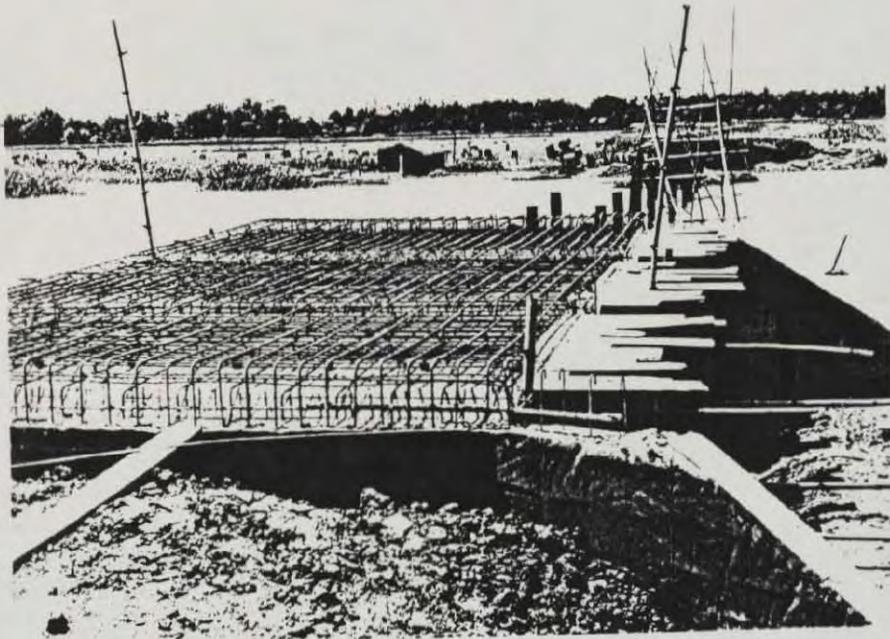
A view of the inundated jobsite taken on 25 March, 1985. Note the contractor's staging at the far side in an attempt to continue his work ahead of flooding.



The same jobsite on 1 April at the time of the visit of Mr. Gene George, water level was approximately 30 cm. higher.

SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

ATGRAM - ZAKIGANJ ROAD
ZRMI/15A/84-85 - 10.1 meter Box culvert



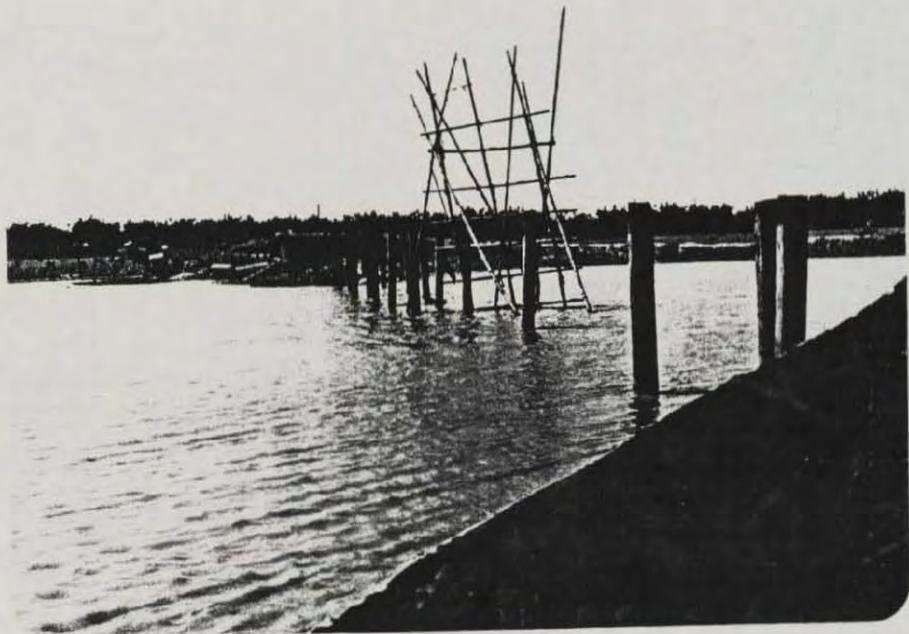
A view of the progress made on 25 March, with the shuttering about complete for the casting of the top slab. The jobsite had been flooded on 17 March.



This same structure at the time of Mr. Gene George's visit on 1 April. Despite the higher water levels, the structure was completed during the month, and its sister structure on the far bank has been steadily raised as weather conditions permit.

SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

ATGRAM - ZAKIGANJ ROAD
ZRMI/15C/84-85 (Contd)



A view of the inundated jobsite of ZRMI/15b/84-85, with the partially constructed ZRMI/15c/84-85 in the background. Work on the near abutment of this last culvert was unable to continue because of higher water level, however the far abutment and piers were raised to grade.

SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

TAJPUR - NEW MARKET - NAYABONDAR ROAD
ZRMI/13/83-84 - 10.1 meter Box culvert



Recently constructed approach to this structure. Recent rains resulted in better consolidation which required remedial work. Picture taken on 4 April looking towards Nayabondar.



Another view of this same approach looking towards Tajpur.

SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

TAJPUR - SYEDPUR - NEW MARKET - NAYABONDAR ROAD

ZRMI/13/83-84- 10.1 meter Box Culvert



An illustration of embankment erosion of uncompact approach fill caused by rain runoff.

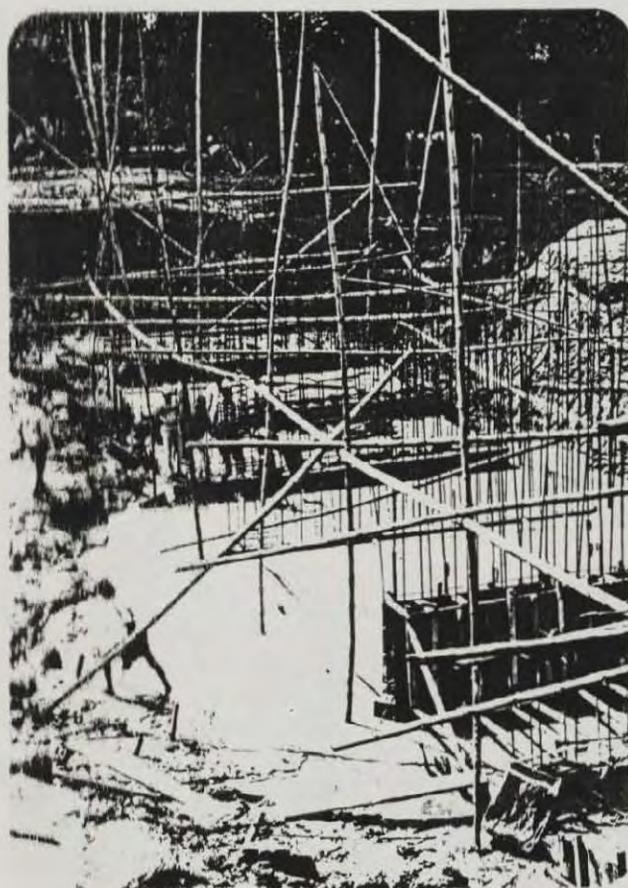


Embankment settlement at the right side of the approach material caused by heavy traffic over insufficiently consolidated fill material.

SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

TAJPUR - NEW MARKET - NAYABONDAR ROAD

ZRMI/16/84-85 - 24.4 meter Box Culvert at Nayabondar



Two views of the progress, up to 4 April, on the construction of this major structure. Each of the piers shown with formwork in place was cast prior to the flooding of the jobsite on 13 April, 1985.

SYLHET. DISTRICT
CONSTRUCTION ACTIVITIES

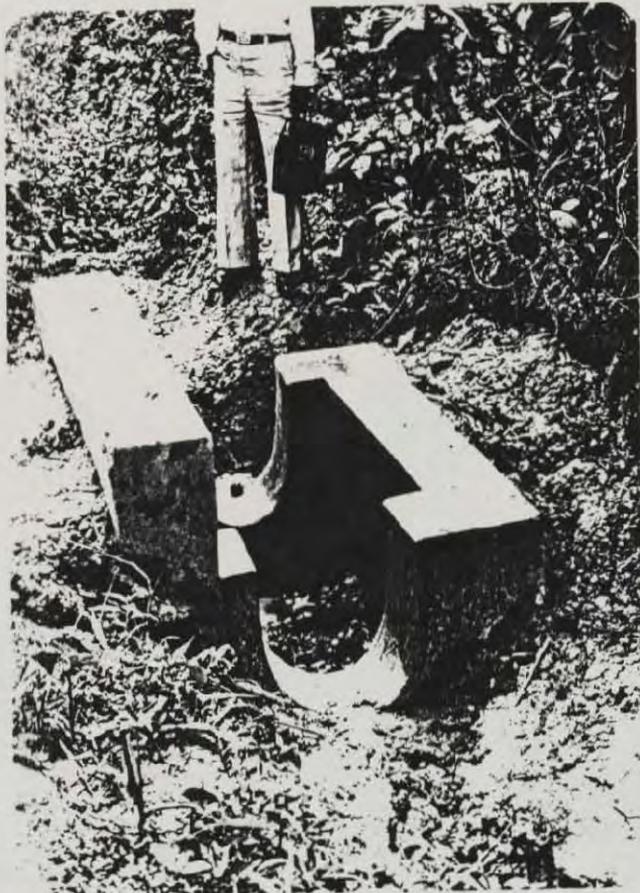
TAJPUR - NEW MARKET - NAYABONDAR ROAD
ZRMI/16/84-85 - 24.4 meter Box Culvert at Nayabondar



The condition of the jobsite when this picture was taken on 18 April. Although the water level has receded to some extent, it has not been a sufficient amount to allow work to continue.

SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

FENCHUGANJ- GHILACHARA ROAD
ZRMI/23/82-83 - 6 Nos. R.C.C. Pipe Culverts



A view of the type of drop box inlet to the pipe culvert used along the R.R. embankment. The debris and earth has since been removed. Picture taken on 8 April, 1985.



The same type of drop box inlet at a point where the road was slightly realigned to allow this type of inlet. The ditches have also since been realigned.

SYLHET DISTRICT
CONSTRUCTION ACTIVITIES
FENCHUGANJ - GHILACHARA ROAD
ZRMI/23/82-83 (Contd)



A view of the outlet headwall prior to final cleanup and channelling. Another contractor was slightly premature with the planting of slope protection.

SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

FENCHUGANJ - GHILACHARA ROAD

ZRMI/18/84-85- 2.3 Km. Levelling Course

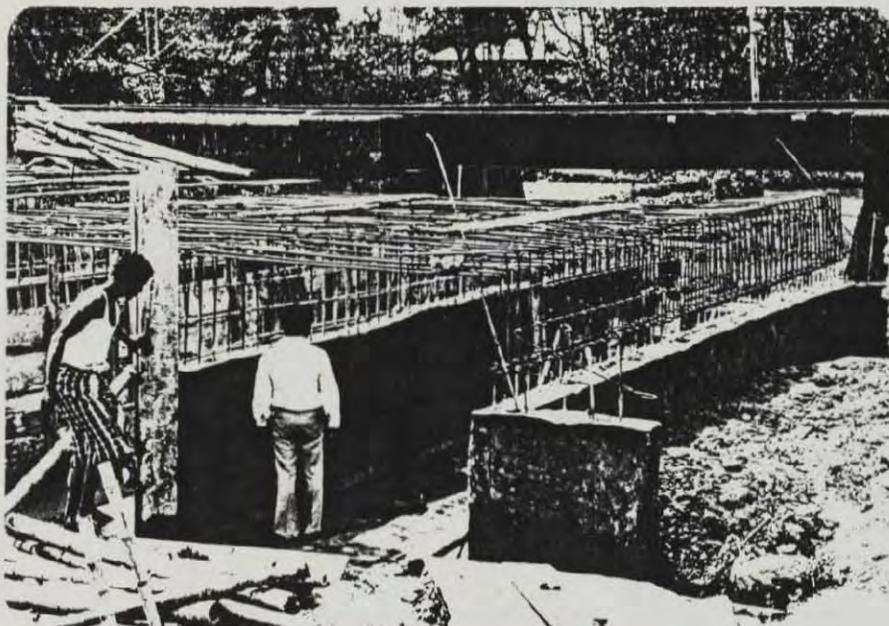
A view of a completed portion of the levelling course with established slope protection. Picture taken on 8 April '85.



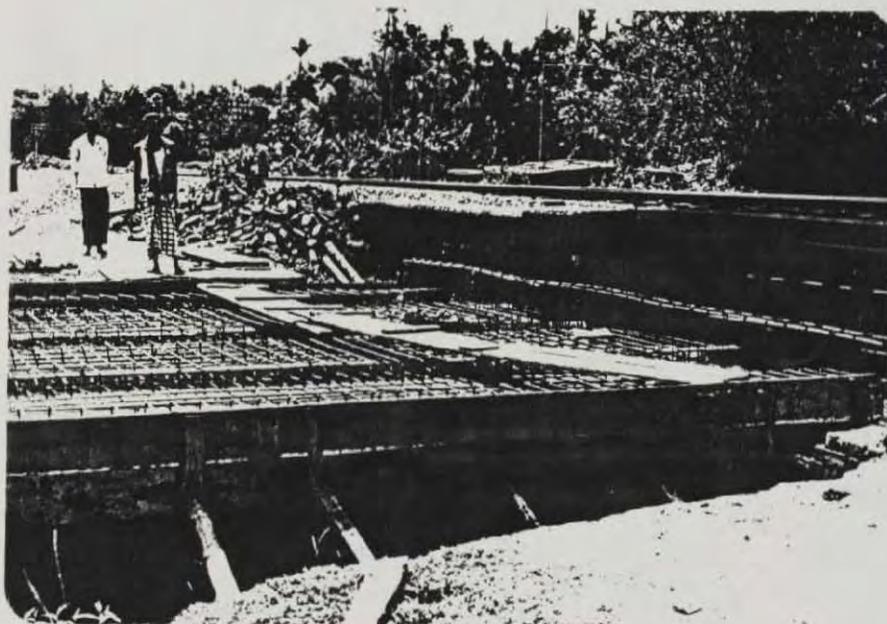
A view of the conveyance used by the Consultants to monitor the construction activities on this road. Access to this road is by Jeep to the Kushiyara River, country boat to cross, and then baby taxi from the river to the job and back.

SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

FENCHUGANJ - GHILACHARA ROAD
ZRMI/19/84-85- 2 Nos. Box Culverts



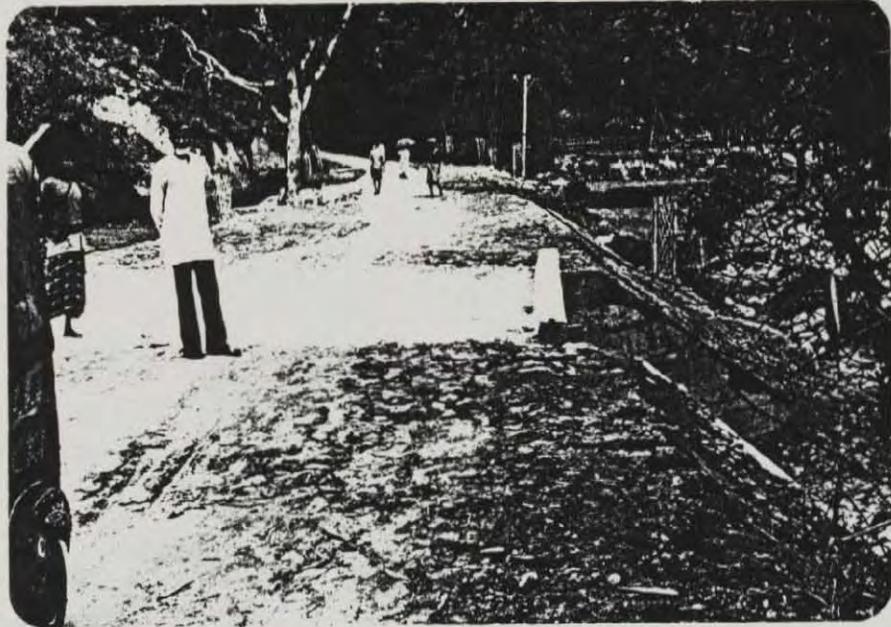
A view of construction progress, taken on 27 March, 1985.



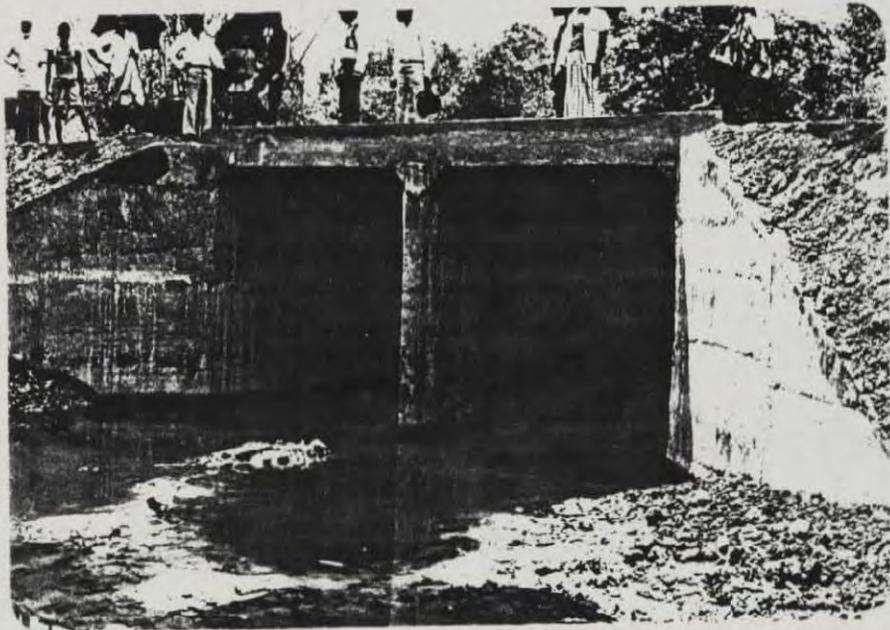
A view of this same structure taken on 8 April, 1985. The top slab was cast on 15 April, and final cleanup and approach work is in progress.

SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

FENCHUGANJ - GHILACHARA ROAD
ZRMI/19/84-85 (Contd.)



Illustrating the approach work and cambering of the roadbed on 27 March, 1985. Heavy rains since that time have resulted in some bank erosion.



A downstream view of the completed culvert.

SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

FENCHUGANJ - GHILACHARA ROAD

ZRMI/19/84-85 (Contd)



Illustrating the uncompacted and unconsolidated slope of sandy material. Heavy rains since the picture was taken on 27 March, has resulted in erosion and damage to these slopes.

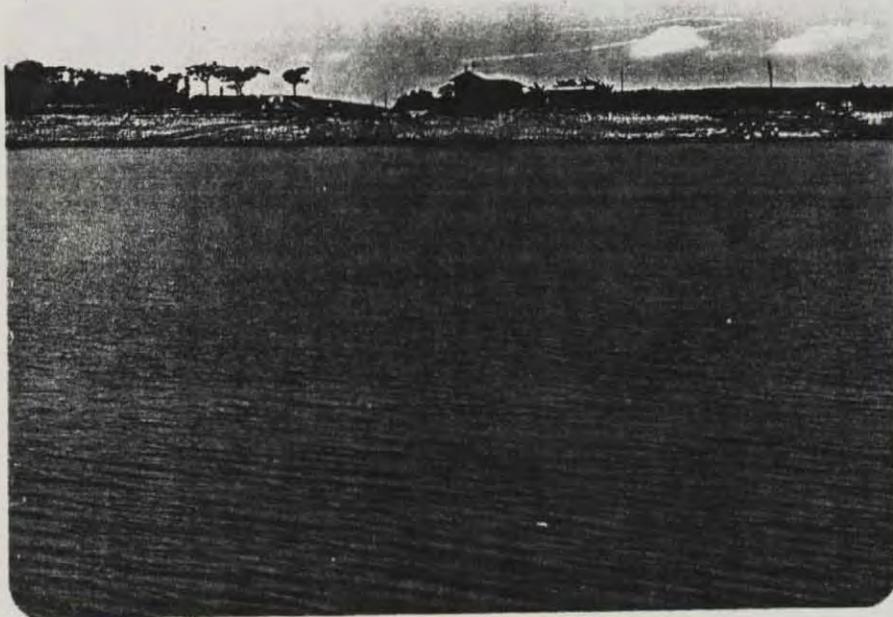
SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

FENCHUGANJ - GHILACHARA ROAD

ZRMI/20/84-85 - 6 Nos. 1.5 meter Box Culverts



A view of the last remaining culvert of this contract, with the structural work completed. Channel cleaning and approach work has been in progress since picture was taken on 8 April, 1985.



A view of the Kushiyara River crossing which is made by country boat for access to this Project.

SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

DHAKADAKSHIN - BEANI BAZAR ROAD
ZRMI/24/82-83 - 0.5 mile Bituminous Pavement



The section of WBM being prepared in the foreground is the last unpaved section of this contract, which was delayed for the completion of the retaining wall on the left, and the culvert at the center of the picture.



A view of the market place on the other side of the afore-mentioned culvert.

SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

DHAKADAKSHIN - BEANI BAZAR ROAD
ZRMI/16/84-85 - 2.45 Km. Bituminous Pavement



An illustration of the erosion, and settlement of unconsolidated, insufficiently compacted, recently constructed earth embankment. The settlement has caused pavement failure.

SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

DHAKADAKSHIN - BEANI BAZAR ROAD

ZRMI/23/84-85 - 86 meter Girder Bridge at Badhajuri



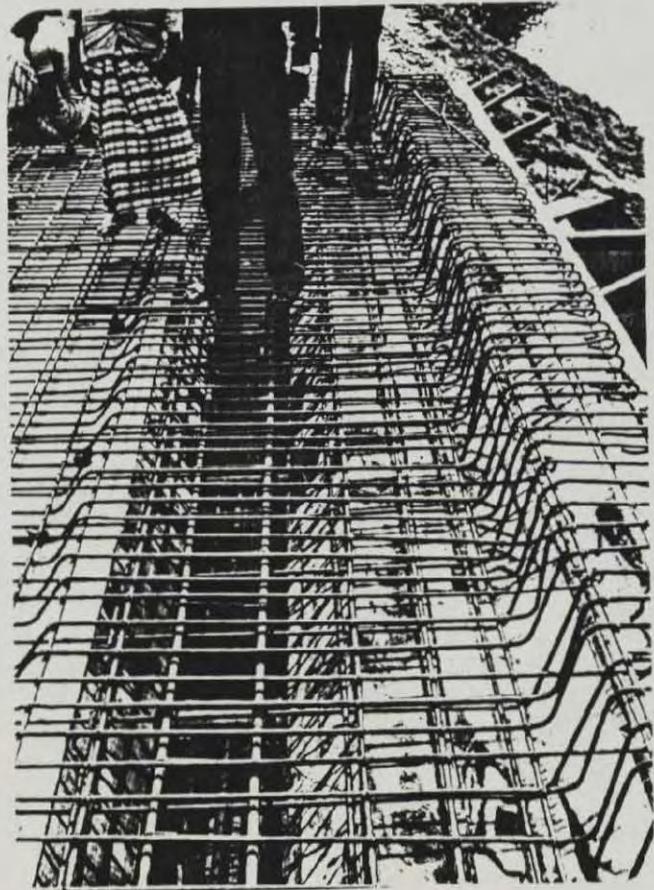
Two views of the water level at this channel on 17 April, 1985. The material at the left side of the top picture shows the location of the diversion road which services the east bank. This road is completely inundated.

SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

DHAKADAKSHIN - BEANI BAZAR ROAD
ZFMI/23/84-85 (Contd)



A view of the shuttering and scaffolding for the casting of the first span girders and bridge slab at the east abutment.

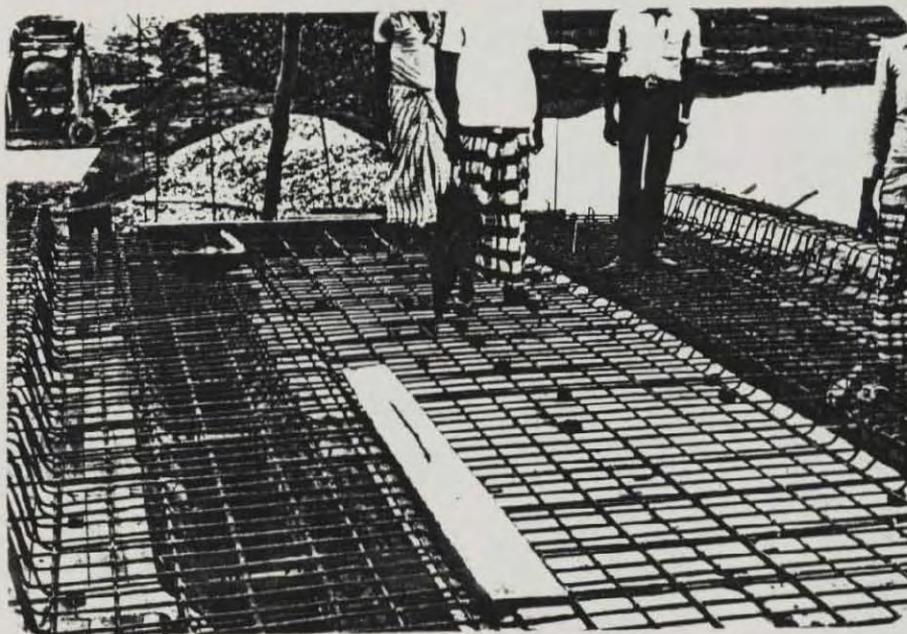


A view of the rebar pattern for both the girders and slab.

SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

DHAKADAKSHIN - BEANI BAZAR ROAD

ZRMI/23/84-85 (Contd.)



An overall view of the preparations for the casting of this portion of the Radhajuri Bridge on 19 and 20 April, despite the high water level in the channel.

SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

NABIGANJ - BANIACHUNG ROAD

ZRMI/17/83-84 - 14.76 meter Box Culvert at Nabiganj



An illustration of the condition of the approach to this structure after being subjected to rains and traffic. The contractor has been advised that he is responsible for the remedial work.

SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

NABIGANJ - BANIACHUNG ROAD

ZRMI/24/84-85 - 10.1 meter Box Culvert at Barrakhal



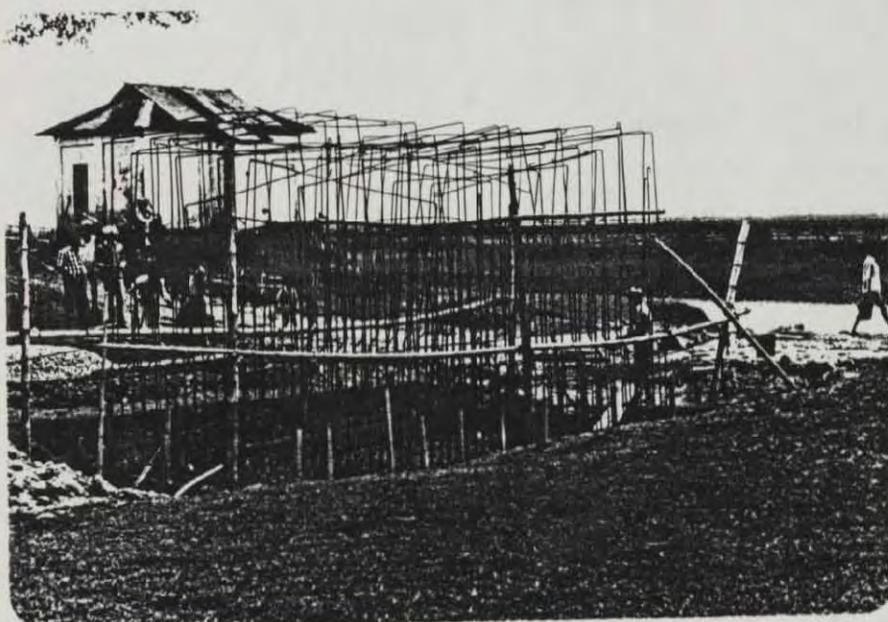
An illustration of the small amount of materials on hand on 9 April for the continued construction of this structure. Note that the material in the background has not been broken to specified size.

SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

NABIGANJ - BANIACHUNG ROAD
ZRMI/25/84-85 - 4 Nos. Box Culverts



A view of the condition of the box culvert progress at 6.5 Km. on 23 April. The C.C. slab had been cast during the first week of April.



A view of the progress on the culvert at 7.2 Km. when the bottom slab was cast on 9 April. No further progress was made until the last week of the month.

SYLHET DISTRICT
CONSTRUCTION ACTIVITIES

NABIGANJ - BANIACHUNG ROAD
ZRMI/25/84-85 (Contd)



A view of the progress made on this culvert at 8.4 Km on 23 April. Some materials gathering had been accomplished since the C.C. slab was cast around the first of April.

RANGPUR DISTRICT
CONSTRUCTION ACTIVITIES

GAIBANDHA - KAMARJANI ROAD



Checking the thickness of bituminous carpeting.



Bituminous carpeting in progress. USAID Team inspected the work.

RANGPUR DISTRICT
CONSTRUCTION ACTIVITIES

GAIBANDHA - KAMARJANI ROAD



Bituminous carpeting work on the same road as the preceding photo.



USAID Team accompanied by other officials at the work site.

RANGPUR DISTRICT
CONSTRUCTION ACTIVITIES

GAIBANDHA - SAGHATA ROAD

15'-0" Span RCC Slab Bridge



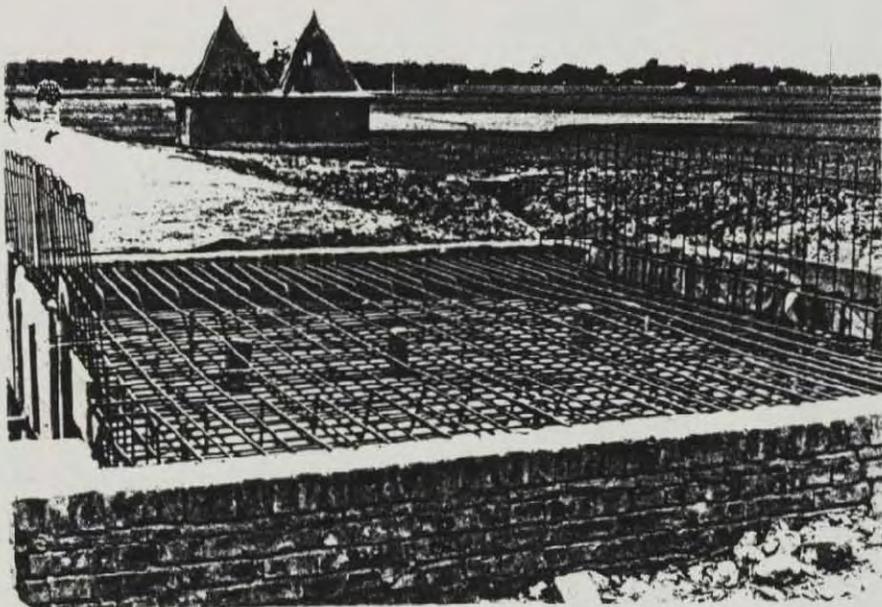
Abutment construction reached the level of deck slab.
Floor C.C. casting completed.



Form work completed for placement of
reinforcement.

RANGPUR DISTRICT
CONSTRUCTION ACTIVITIES

GAIBANDHA - SHAGHATA ROAD



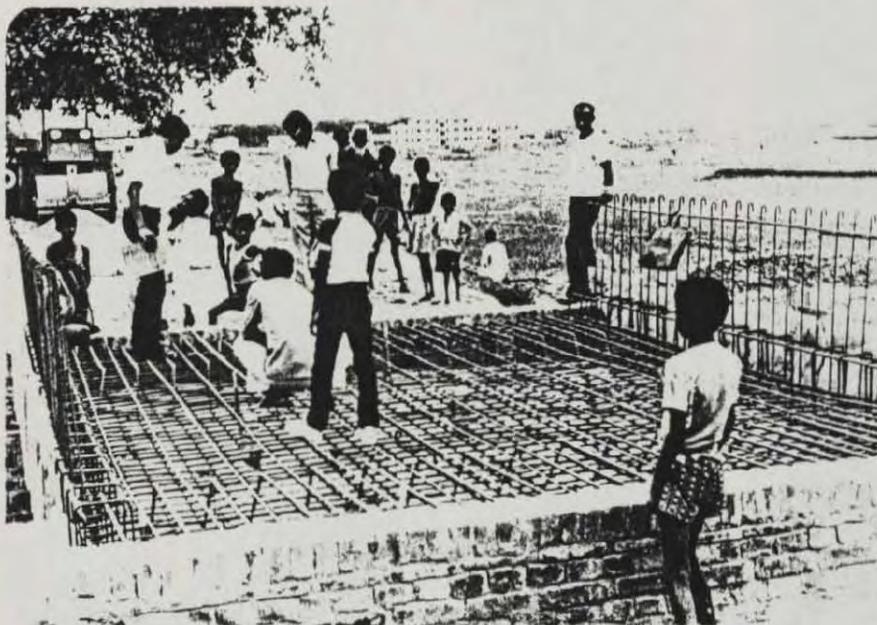
Reinforcing bars placed in the form work
of deck slab.



Checking of steel reinforcement.

RANGPUR DISTRICT
CONSTRUCTION ACTIVITIES

GAIBANDHA - SAGHATA ROAD



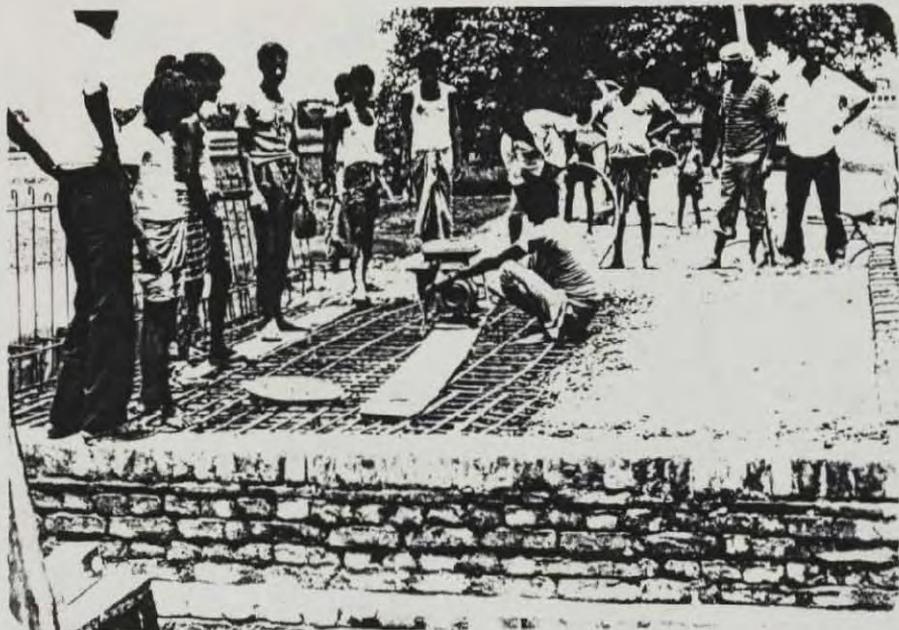
Checking dimensions of slab and reinforcement bars.



Material being mixed by hand for casting the deck slab of 15'-0" Span bridge. Mixing machine was not available despite the several requests to the XEN to use that equipment in our work.

RANGPUR DISTRICT
CONSTRUCTION ACTIVITIES

GAIBANDHA - SAGHATA ROAD



Deck slab casting. Vibrator being used during the pouring operation.
Bamondanga-Sundarganj Road
10'-0" Box Culvert.



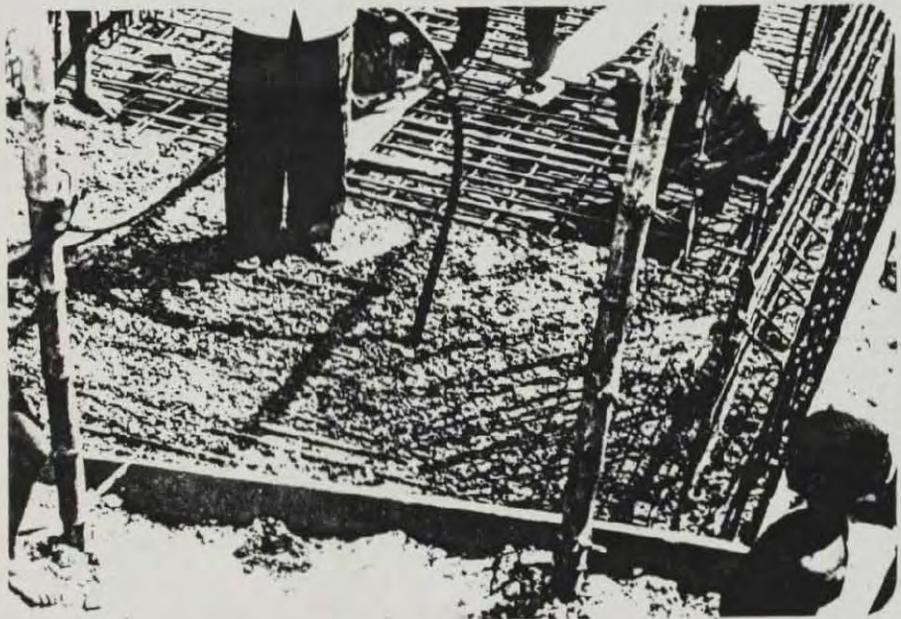
Steel bars placed for 10'-0" Span Box Culvert.

RANGPUR DISTRICT
CONSTRUCTION ACTIVITIES

BAMONDANGA - SUNDARGANJ ROAD



Checking the Slump of Concrete.



Using a vibrator during the placing of concrete.

RANGPUR DISTRICT
CONSTRUCTION ACTIVITIES

GAIBANDHA - NALDANGA ROAD
20'-0" Span RCC Slab Bridge at Kholahati.



Abutment brick work reached the deck slab
beam level.



Another view of the abutment of the
same bridge.

RANGPUR DISTRICT
CONSTRUCTION ACTIVITIES

BARODARGA - BHENDABARI ROAD



A view of a completed section of bituminous carpeting, a 1983-84 project.



Compacting of WBM underway for 1984-85 scheme(b)A.

RANGPUR DISTRICT
CONSTRUCTION ACTIVITIES

BARODANGA - BHENDABARI ROAD



Checking the WBM and sand sub-base thickness for a 1984-85 project.



Oversized khoa spread for 2nd layer WBM in group(a)B of 1984-85, Projects. However, this was subsequently corrected.

RANGPUR DISTRICT
CONSTRUCTION ACTIVITIES

BARODARGA - BHENDABARI ROAD



Bituminous carpeting work is in progress in (a)A.
USAID Team at the work site.



A discussion about the progress of work and field
quality control of work.

RANGPUR DISTRICT
CONSTRUCTION ACTIVITIES

BARODARGA - BHENDABARI ROAD



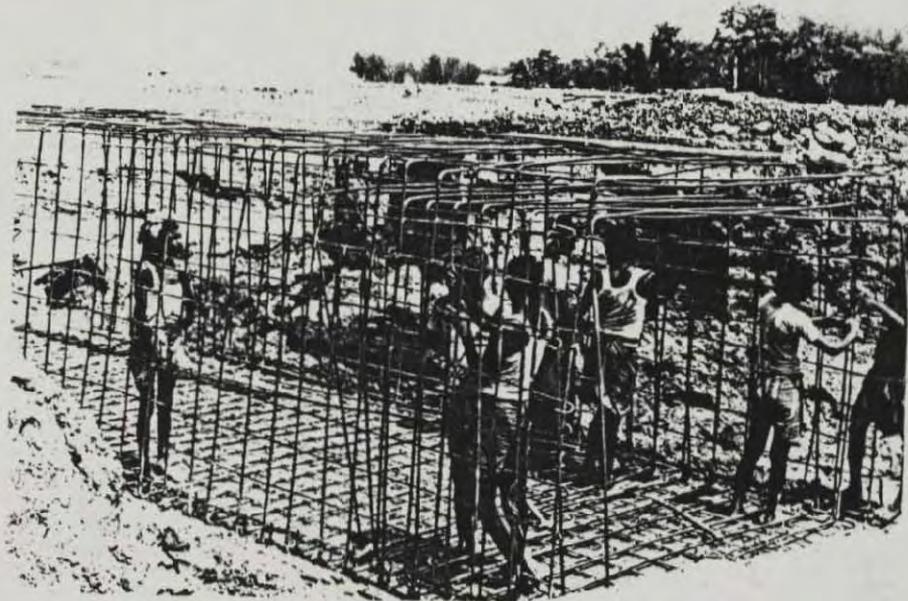
Rolling for compaction of bituminous premixed pavement.
Group (a)A.



8'-0" Span Box culvert site during the first week of April.

RANGPUR DISTRICT
CONSTRUCTION ACTIVITIES

BARODARGA - BHENDABARI ROAD



8'-0" Span RCC Box culvert. Placement of reinforcement steel in progress at the end of April for the culvert site shown in the previous photo.



50" Dia RCC Ring placed in bed and one end wall complete, Barodarga-Bhendabari road.

RANGPUR DISTRICT
CONSTRUCTION ACTIVITIES

MIRGANJ - JALDHAKA ROAD



A view of a completed bituminous carpeting in Group C1 and C2, 1983-84 Projects.



Bituminous carpeting in progress in Group-C (1984-85).

RANGPUR DISTRICT

CONSTRUCTION ACTIVITIES

MIRGANJ - JALDHAKA ROAD



WBM completed in Group E (1982-83)- (transferred from 1983-84 schemes). Material collected for carpeting work.



USAID Team and other officials at Rajarhat Bridge site.

RANGPUR DISTRICT
CONSTRUCTION ACTIVITIES

MIRGANJ - JALDHAKA ROAD



USAID Team and other officials observing the condition of this steel framed bridge.



HBB work on Mirganj-Jaldhaka road (work transferred from Rajarhat-Ullaghata road of 1982-83 project).

RANGPUR DISTRICT
CONSTRUCTION ACTIVITIES

KAMDIA - GHORAGHAT ROAD



HEB work in Group D (1983-84), shoulder improvement yet to be completed.



Box Cutting and Sand sub-base preparation going on for the section of HEB work in Group D(1983-84).

RANGPUR DISTRICT
CONSTRUCTION ACTIVITIES

KAMDIA - GHORAGHAT ROAD



USAID Team on Kamdia-Ghoraghat road.



USAID Evaluation Team crossing the river by a country boat near Ghoraghat Bazar.

FARIDPUR DISTRICT
CONSTRUCTION ACTIVITIES

HATKRISHNAPUR - SADARPUR - PIAJKHALI ROAD

Group B



Preparation of Sand cushion for HBB pavement.

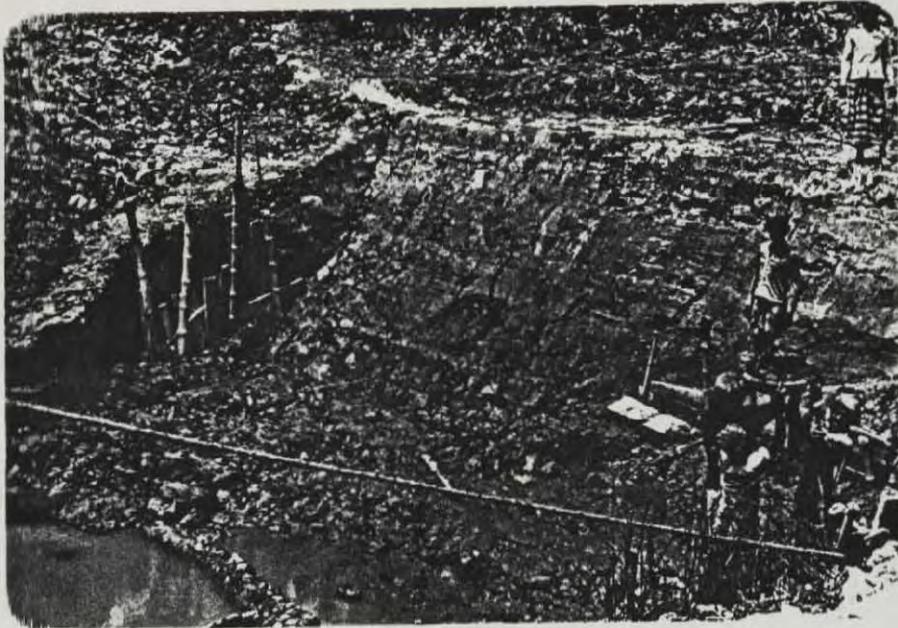
Majumdabari Khal Bridge



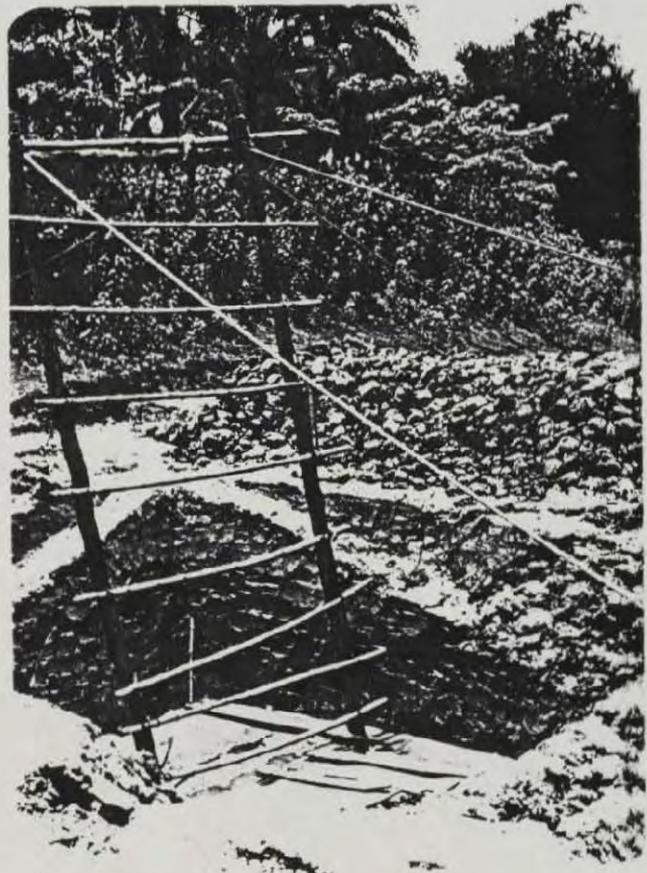
Excavation of foundation trench is almost complete.
Contractor is now waiting for piling.

FARIDPUR DISTRICT
CONSTRUCTION ACTIVITIES
HATKRISHNAPUR - SADARPUR - PIAJKHALI ROAD

Matakchar Khal Bridge



Excavation of
foundation
trench is in
progress.



Driving of piling
is in progress.

FARIDPUR DISTRICT
CONSTRUCTION ACTIVITIES

HATKRISHNAPUR- SADARPUR- PIAJKHALI ROAD

Group C



Construction of HBB pavement.

Khaigo Khal Bridge

Reinforcement and form work being checked before pouring concrete for abutment wall.



FARIDPUR DISTRICT
CONSTRUCTION ACTIVITIES

HATKRISHNAPUR- SADARPUR- PIAJKHALI ROAD

Khaigo Khal Bridge



View of brick work for wing wall and
abutment form work.

PARIDPUR DISTRICT
CONSTRUCTION ACTIVITIES

MADHUKHALI - BALIAKANDI ROAD

Group L



Serious over-burning of bituminous mix
can be seen.



Laying of bituminous premix is in progress.

FARIDPUR DISTRICT
CONSTRUCTION ACTIVITIES
MADHUKHALI - BALIAKANDI ROAD
Group L



Temperature of heated bitumen being checked,
and found to be satisfactory.



A view of finished section of bituminous
carpeting.

FARIDPUR DISTRICT
CONSTRUCTION ACTIVITIES

TALMA - HATKRISHNAPUR ROAD

Group D



Box-cutting earth work in progress.



A view of consolidated sub-grade.

FARIDPUR DISTRICT
CONSTRUCTION ACTIVITIES

TALMA - HATKRISHNAPUR ROAD

Group D



Preparation of Sand cushion and brick flat soling.



Spreading of khoa in first layer of WBM is complete for a long stretch.

FARIDPUR DISTRICT
CONSTRUCTION ACTIVITIES

RAJBARI - BALIAKANDI ROAD

1984-85 Project



Khoa spreading complete for first layer,
WEM.



Compaction of WEM is in progress.

FARIDPUR DISTRICT
CONSTRUCTION ACTIVITIES

RAJBARI - BALIAKANDI ROAD



A view of complete section of WBM.



Laying of bituminous seal coat in progress.

FARIDPUR DISTRICT
CONSTRUCTION ACTIVITIES

RAJBARI - BALIAKANDI ROAD



Compaction of WBM complete for entire length.



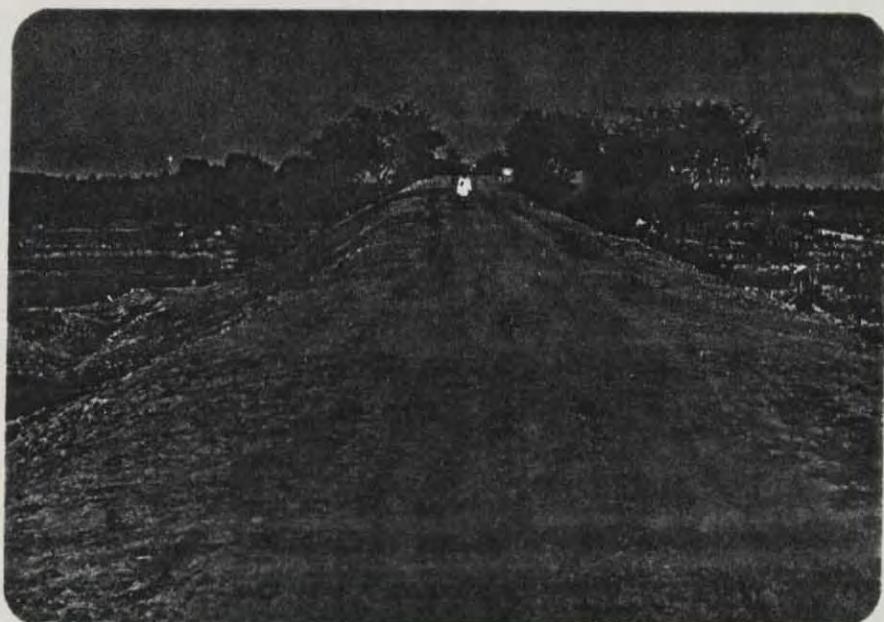
Mixing and laying of premix in progress.

FARIDPUR DISTRICT
CONSTRUCTION ACTIVITIES

RAJBARI - BALIAKANDI ROAD



Bituminous carpeting now complete for entire length.



Consolidation of WEM complete on both sides of the bridge.

FARIDPUR DISTRICT
CONSTRUCTION ACTIVITIES

RAJBARI - BALIAKANDI ROAD



Consolidation of WEM completed both sides of
this bridge.