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Government of the People's Republic of Bangladesh
Ministry of Local Government
(Local Govt. Division)

PROGRESS REPORT

**ZILLA ROAD MAINTENANCE
AND IMPROVEMENT PROJECT
(USAID PROJECT NO. 388-0056)**

FOR THE MONTH OF NOV '83

BY
Wilbur Smith and Associates
In association with
Bangladesh Consultants Ltd.
and
Public Administration Service

11/83

12/83

3/84

12/83

**PROGRESS REPORT
FOR
ZILLA ROADS MAINTENANCE
AND IMPROVEMENT PROJECT
(USAID Project No. 388-0056)**

November, 1983

1.0 GENERAL

The preparation of standard specifications for Road construction, Roadway Typical Section, Standard Methods of Mechanical Analysis of soils was completed and submitted to the relevant parties during the month. The first training sessions in both Rangpur and Faridpur were completed on schedule. The training session schedule and syllabus for the second session in both Rangpur and Faridpur were also completed. The WSA offices in Rangpur and Faridpur had to curtail the road inventory activities during the month for the scheduled training sessions of the first training cycle. All the parties related with the ZRMI Project mutually agreed with the decision of taking up a pilot project on maintenance of roads in each project district in this fiscal year. Time schedules also chalked out in each project district to perform and complete the pilot project.

2.0 ORGANIZATION AND MANAGEMENT

Still waiting on further comments regarding the report submitted in October. To date all comments have been favorable. Regardless of further comments, W.S.A expects to implement various phases of the O&M study beginning in January of 84.

3.0 ESTABLISHMENT OF MAINTENANCE AND CONSTRUCTION SYSTEM

A report on the proposed maintenance management system was completed in draft form by the end of November. The text of the report discusses all the steps in programming, executing and reporting maintenance work, and includes a full activities list, the necessary performance standards a table of maintenance levels, and methods for developing workload, resource needs, programs, budgets, schedules, work reports and evaluations.

3.1 Maintenance Program :

The D.E. Faridpur presented the outline of his maintenance program for the fiscal year 1983-84.

<u>Name of the Schemes</u>	<u>Estimated cost (Tk)</u>
Maintenance and repairs to CC pavement on Goalundo Bazar Road (Bituminous carpeting work)	3,32,000
Maintenance and improvement of Dr. Kazi Motahar Hossain Road (Earth work & HBB pavement)	3,15,000
Maintenance and improvement of Rajbari-Baliakandi Road (Bituminous carpeting work)	2,33,000
Maintenance and repairs to damaged CC pavement work on Pukuria-Sadarpur Road	1,40,000
Maintenance and repairs to Talma-Nagarkanda Road	1,39,000
Maintenance and repairs to damaged CC pavement from Harishava Junction to Degree College	59,000
Maintenance and repairs to existing damaged CC pavement on KB Ismail Road	24,000
Maintenance and repairs to Faridpur-Chabhadrasan Road from Harishava to Mosque	16,000
Total Taka	12,58,000

It was decided that the Talma-Nagarkanda road in Faridpur would be selected for the pilot maintenance project.

Similar pilot maintenance project will be taken up in the other two project districts.

3.2 Construction Program :

The XEN and his staff still have been working closely with the WSA offices in Sylhet and Rangpur for the preparation of schemes, specifications, designs and estimates of the schemes to be taken up in the current financial years.

The schemes submitted on 29 November by the XEN for review to the RE Rangpur are as follows :

<u>Name of the Road</u>	<u>Nature of works</u>	<u>Length of road in ft.</u>	<u>Estimated cost (Tk.)</u>
Chatra-Khaleshpur to Baradarga	Bituminous carpeting	19,000	40,00,000
Mirgonj to Jaldhaka via Tangonmari	Khoa consolidation, Bituminous carpeting	11,300	24,00,000

<u>Name of the Road</u>	<u>Nature of works</u>	<u>Length of road in ft.</u>	<u>Estimated cost (Tk.)</u>
Kamadia-Ghoraghat Road	HBB work	11,300	15,00,000
Kamadia-Ghoraghat (alternative)	Khoa consolidation, Bituminous carpeting	5,350	15,00,000
Gaibandha-Kamarjani via Dariapur	Consolidation & carpeting over existing HBB	9,180	15,80,000

In addition to the road work the XEN is going to obtain the services of the consultant for the design of the following bridges.

<u>Location/Road</u>	<u>Length</u>
Jaldhaka-Nilphamari Road at 3rd mile from Jaldhaka	50'-0
Rajarhat-Ullaghatta Road at 1st mile from Rajarhat	70'-0

The XEN staff in Rangpur is preparing the design and tender documents for the construction of the following bridge/culvert schemes :

<u>Location</u>	<u>Length</u>
Rajarhat-Ullaghatta Road near Punga High School	30'-0
Gaibandha-Kamarjani Road at 1st mile from Dariapur	10'-0

4.0 PREPARATION OF TECHNICAL SPECIFICATIONS

The preparation of the manuals for road construction and soil surveys were completed during the month and will be distributed to the relevant parties during 1st week of December.

5.0 TRAINING

Apparently the revised version submitted in late October was found to be satisfactory as it is understood that except for the details of the overseas Training Programs, the program has been approved by all concerned. The point still under debate in the overseas Training Program is the final scope of the program. Especially with regard to the final number of participants who will be sent to the USA for extended training and observation tours. This is a policy matter which must be resolved by the project sponsoring agencies.

The first training sessions in both Rangpur and Faridpur were successfully completed. Current comments received indicate the desirability of including some more advanced training sessions than those currently being taught. It is proposed that the next training cycle be held in March or April and that the format be changed to more of an on-the-job training form. Briefly, in each of the three Districts, a road which is

already included in the current improvement program, and preferably one which included a bridge or large culvert, would be selected. The training session would include a complete site investigation; location survey, profiles, and cross sections; deep borings and soils investigations; design, including quantities; cost estimate; and construction plan. This proposal will be discussed with the relevant authorities at both the WPW-and the District level-to ascertain their reactions to the idea.

It is hoped that the Dhaka Management Training session can be rescheduled for sometime in late January 1984. Home-leave absence scheduled by the COP precludes rescheduling this session at any time sooner than indicated.

Earlier in 1984, it is planned to request a joint session with training officials from IRWP and SRWP to plan the training sessions for the second cycle. At such a joint session, it is hoped that accomplishments would include :

- o Elimination of overlap and repetition in the subject matter presented by the three organization interested in training programs within the WPW.
- o Eliminate scheduling conflicts between the three sponsoring organizations - ZRMI, IRWP and SRWP.

Plan for a short training/observation course in conjunction with AIT in Bangkok will be discussed by the TA on the occasion of his planned visit to Thailand in late December. Interest has been received in the possibility of short courses sponsored by Indian organizations. This alternative will be investigated further. For the purpose of expediting the course material and selection of training facilities for that portion of the training program to be conducted with the United States, it has been determined by WSA home office that during the COP's upcoming R/R (starting December 13th) it would be beneficial to the training program if the COP were to report to the WSA home office prior to going to his home.

6.0 MAINTENANCE AND CONSTRUCTION SUPERVISION

The WSA district offices had maintained their routine in monitoring the maintenance operation and construction works in progress within the districts and also engaged in collecting material sample from site to test in the project district laboratory.

6.1 Maintenance :

6.1.1 Technical Assistance

WSA Rangpur office performed some tests on local materials collected from Kamdia-Goraghat Road. The test results are as follows :-

Classification	:	Clayey silt with traces of sand
Specific Gravity	:	2.42
Liquid limit	:	31.50%
Plastic limit	:	18.69%
Plasticity Index	:	12.81%
Samples	:	Medium plasticity
MDD	:	1823.71 kg/m ³
OMC	:	18.05%
Dry density-in-situ	:	1763.33 kg/m ³
Percent compaction	:	96.69%
CBR value	:	16% (unsoaked)
Sand Blanket Material	:	
Fineness Modulus	:	0.70 to 1.20 for one group.

Materials testing was also performed during the month in Faridpur district.
The test results are as follows ;

<u>Name of the road</u>	<u>Name of the Test</u>	<u>Results</u>	<u>Remarks</u>
Badarpur-Saltha Road	CBR	22.6%	Disturbed, Unsoaked
Badarpur-Saltha Road	CBR	6.4%	Undisturbed, Unsoaked
Badarpur-Saltha Road	Compaction		
	MDD	1860.60 kg/m ³	
	OMC	16.4%	
Badarpur-Saltha Road	Field Compaction	84.8%	Wheel path
Badarpur-Saltha Road	Field Compaction	79.3%	Shoulder
Modhukhali-Baliakandi Road	Atterberg Limits PF	10.88%	Group A
Modhukhali-Baliakandi Road	FM (sand)	0.93	Group D
Modhukhali-Baliakandi Road	FM(sand)	0.29	Group C
Modhukhali-Baliakandi Road	Sp.Gr.	2.64	Group D
Modhukhali-Baliakandi Road	Sp.Gr.	2.58	Group A
Modhukhali-Baliakandi Road	Field Compaction	90.6%	SIDA compaction trial on shoulder:
Modhukhali-Baliakandi Road	Field Compaction	85.7%	SIDA, uncompacted in wheel path.

The XEN Faridpur has rejected the sand of Group C.

6.1.2 Monitoring Maintenance Activities

6.2 Construction

6.2.1 Scheme Design/Review

The XEN Rangpur submitted four schemes on 29 November, 1983 for review in the WSA office. Comments and/or observation on the schemes will be forthcoming in the future progress report. WSA Sylhet office working hard with the XEN and his staff in gathering basic information and finalizing the estimates for the 1983-84 schemes. Similar work is going on in the other two project districts.

6.2.2 Monitoring Construction Activities

As a result of the road inventory on Modhukhali-Baliakandi Road in Faridpur it was discovered that the center line length of the four schemes appeared to be about 0.68 miles short of the 4.5 miles combined length of the four tendered schemes. This was discussed with the XEN on November 15, 1983 and he explained that the discrepancy in length was in scheme B. He said the contractor of scheme B will have an additional 0.68 mile of work added on just the end of Scheme D.

7.0 PROCUREMENT OF EQUIPMENT

I.F.B package is in process of being prepared in the U.S.A for those items that require it. It is hopeful that AID can issue the P.I.L in December. Upon issuance of the P.I.L., local purchase will be obtained without undue delay.

8.0 PROBLEM ENCOUNTERED AFFECTING THE EFFICIENCY OF THE PROJECT

8.1 Logistics

Clearance from M.L.G. to purchase office cars (Sedan & minibus) is expected the first week in December.

9.0 PERSONNEL

Dhaka Office :

<u>Title</u>	<u>Name</u>	<u>Status</u>	<u>Date</u>
Chief of Party	F. L. Barnes	on duty	1/11-30/11
Training Spl.	G. E. Rogers	"	"
Design Engr. Pavement	G. Lugenbeel	"	"
Maint. Engr.	H.M. Pentecost	"	"
Assoc. COP	K.M. Huque	"	"

(Total 8 working days)

<u>Title</u>	<u>Name</u>	<u>Status</u>	<u>Date</u>
Soil/Materials Lab. Training Specialis.	M. Majid	on duty	1/11-30/11 (Total 16 working days)
Project Engr./ Training Coordinator	AHM Abdullah	"	
Office Engr.	GSM Habibur Rahman	"	"
Lab. Engr.	S Arefin	"	"
Draftsman	M A Baten	"	"
Admn. Asstt.	Md. Harun	"	"
Accountant	AKM A Taher	"	"
Secretary	Fahmida Choudhury	"	"
Typist	M A Kashem	"	"
Driver	E Hossain	"	"
Driver	F Rahman	"	"
Messenger	A Majid	"	"
Guard	S A Khalifa	"	"
Guard	A Rashid	"	"
Caretaker	Mokfaruddin Skr.	"	"
Cleaner	Anwara	"	"
Gardener	N Zaman	"	"
<u>Faridpur</u>			
Resident Engr.	H.D. Correll	"	"
Asstt. R. Engr.	ANM Habib	"	"
Inventory Engr.	Kh I Uddin	"	"
Soil Technician	A Hossain	"	"
Lab. Technician	Mizanur Rahman	"	"
Surveyor	Tajul Islam	"	"
Office Manager/ Accountant	Ben Gomez	"	"
Driver	B A Mollah	"	"
Driver	N Ali	"	"
Gardener	G Folia	"	"
Guard	N Khan	"	"
Guard	I Ali	"	"

<u>Title</u>	<u>Name</u>	<u>Status</u>	<u>Date</u>
<u>Rangpur</u>			
Resident Engr.	R A Tavel	on duty	1/11-30/11
Asstt. R Engr.	S S Ahmed	"	"
Inventory Engr.	S A Hasan	Left Rangpur Office on 28 November	
Soil Technician	Aminul Islam	on duty	1/11-30/11
Lab. Technician	B Hossain	"	"
Surveyor	J Abedin	"	"
Office Manager/ Accountant	A H Majumder	"	"
Typist	A H Howlader	"	"
Messenger	AFM M Haque	"	"
Driver	Mahbubur Rahman	"	"
Driver	A Halim	"	"
Guard	A Rahman	"	"
Guard	M Hossain	"	"
Caretaker	G C Das	"	"
Cleaner	Rashida Begum	"	"
<u>Sylhet</u>			
Resident Engr.	Alex E. Nielson	"	"
Asstt. R. Engr.	K M Hasan	"	"
Surveyor	Aminul Karim	"	"
Surveyor	Abu Musa Mia	"	"
Lab. Technician	N M Siddique	"	"
Lab Technician	Amjadul Haque	"	"
Office Manager/ Accountant	Azizul Haque	"	"
Typist	AKM Munir Ahmed	"	"
Driver	Kazal Miah	"	"
Messenger	Elias Ali	"	"
Guard	N R Sarker	"	"
Guard	Rafiqul Islam	"	"
Cleaner/Gardener Caretaker	Ahmed Miah	"	"

9.1 Proposed Work Program

The Rangpur office, on November 8, 1983 received the list of proposed works from the office of Mr. Q. I. Siddique, DCE (WPW), which are as follows :

LIST OF FEEDER ROADS FOR MAINTENANCE

DISTRICT : RANGPUR

Sl. No.	Name of the Road	Sub-Division	Growth Centres connected the Road	Length in mileage
1.	Bhurungamari-Shikuria Road (Bhurungamari Bazar portion)	Kurigram	Shilkuri Bazar and Bhurungamari	2 miles
2.	Gaibandha-Baradarga Road via Sadullapur & Madargonj Zilla Parishad Road No. 8570.	Gaibandha	Madargonj Bazar and Sadullapur Bazar	10 miles
3.	Gaibandha-Shaghatta Road Zilla Parishad Road No. 49	Gaibandha	Gaibandha Bazar and Nurulgonj Bazar and Fulsuri Bazar	13 miles
4.	Domar-Dimla Road(Domar Bazar portion) Zilla Parishad Road No. 35	Nilphamari	Domar Bazar and Boragari Bazar	2 miles
5.	Rangpur-Shudargonj via Chowdhurani	Rangpur Sadar	Rangpur Bazar and Boradarga Bazar and Pirgucha Bazar	4 miles
6.	Nilphamari-Tengonmari Road Zilla Parishad Road No. 94	Nilphamari	Nilphamari Bazar Ramnagar Bazar and Ramgonj Bazar	3 miles
7.	Tengonmari Bridge to Pagla pir	Nilphamari	Tengonmari Bazar and Kishoregonj Bazar	14 miles
8.	Gangachara-Bardibari	Rangpur Sadar	Gangachara Bazar and Betgari Bazar	4 miles
			Total	52 miles

LIST OF FEEDER ROADS FOR RECONSTRUCTION

DISTRICT : RANGPUR

1.	Kamarjani to Gaibandha via Dariapur	Gaibandha	Kamarjani Bazar Gaibandha Bazar	5 miles
2.	Chatra-Khaleshpur-Vendabari to Baradarga	Rangpur Sadar	Chatra Bazar Khaleshpur Bazar & Vendabari Bazar	7 miles
3.	Mirgonj to Jaldhaka via Tengonmari Road	Nilphamari	Mirgonj Bazar, Tangonmari Bazar, Jaldhaka Bazar	8 miles
4.	Rajarhat to Ullaghata	Lalmonirhat	Rajarhat Bazar and Mohendru Nagar Bazar	4 miles
5.	Kamdia to Ghoraghat	Gaibandha	Ghoraghat Bazar and Kamdia Bazar	6 miles
			Total	30 miles

BRIDGES AND CULVERTS

Sl. No.	Location/Road	Planned	Length	Remarks
1.	Mirgonj-Jaldhaka Road	R.C.C. Bridge	1x50' span	Nilphamari sub-division
2.	Rajorhat-Ullaghata Road (near Punga High School)	R.C.C Culvert	1x20' span	Lalmonirhat Sub-Division)
3.	Rajarhat-Ullaghata Road (near Baddyer Bazar)	R.C.C Bridge	1x15' span	-do-
4.	Gaibandha-Kamarjani Road (1 mile from Dariapur)	R.C.C Bridge	1x10' span	Gaibandha Sub-Division
5.	Dimla-Satibari Road (4th mile from Dimla)	-do-	2x30' span = 60 rft	Nilphamari Sub-Division
6.	Dimla-Satibari Road (6th mile from Dimla)	-do-	1x10' span	Nilphamari Sub-Division)
7.	Gaibandha-Saghatta Road (3rd mile from Gaibandha)	-do-	1x15' span	Gaibandha Sub-Division
8.	Lalmonirhat-Moghat Road at Changerdola)	-do-	1x6' span	Lalmonirhat Sub-Division
9.	Magura-Keshorganj Road	-do-	1x30' span	Nilphamari Sub-Division
10.	Sadullapur to Kamarer para Road (Z.P. Road No. 67) 2nd mile from Sadullapur	-do-	2x20' span = 40 rft	Gaibandha Sub-Division
11.	Sadullapur to Kamarer para Road (Z.P. Road No. 67) 2½ mile from Sadullapur	-do-	2x20' span = 40	-do-
12.	Gaibandha-Naldhanga Road (10 miles from Gaibandha)	-do-	1x30' span	-do-
13.	Gaibandha-Naldhanga Road	-do-	1x10' span	Gaibandha Sub-Division
14.	Bamandanga-Sundargonj Road (at Saitantola)	-do-	1x10' span	-do-
15.	Baradarga-Vendabari-Chattra Road	-do-	1x20' span	Rangpur Sadar
16.	Gajagonta-Gonga-Chara Road	-do-	1x60' span	-do-
17.	Chaperhat-Kaligonj Road via Kakina (near Kakina)	-do-	1x20' span	Lalmonirhat
		Total	446 rft.	
18.	Rajarhat-Ullaghata Road 1st mile from Rajarhat over outer board irrigation canal	R.C.C Bridge	75'-0"	

In the coming month WSA district offices will continue monitoring of the on going construction schemes and give general recommendation as to the quality of workmanship and materials being used on commonly accepted construction practices. The district offices will also work closely with the XEN's office for the preparation of schemes to be undertaken during the current financial year.

10.0 APPENDIX

Financial status of the project attached.

10.1 Meeting

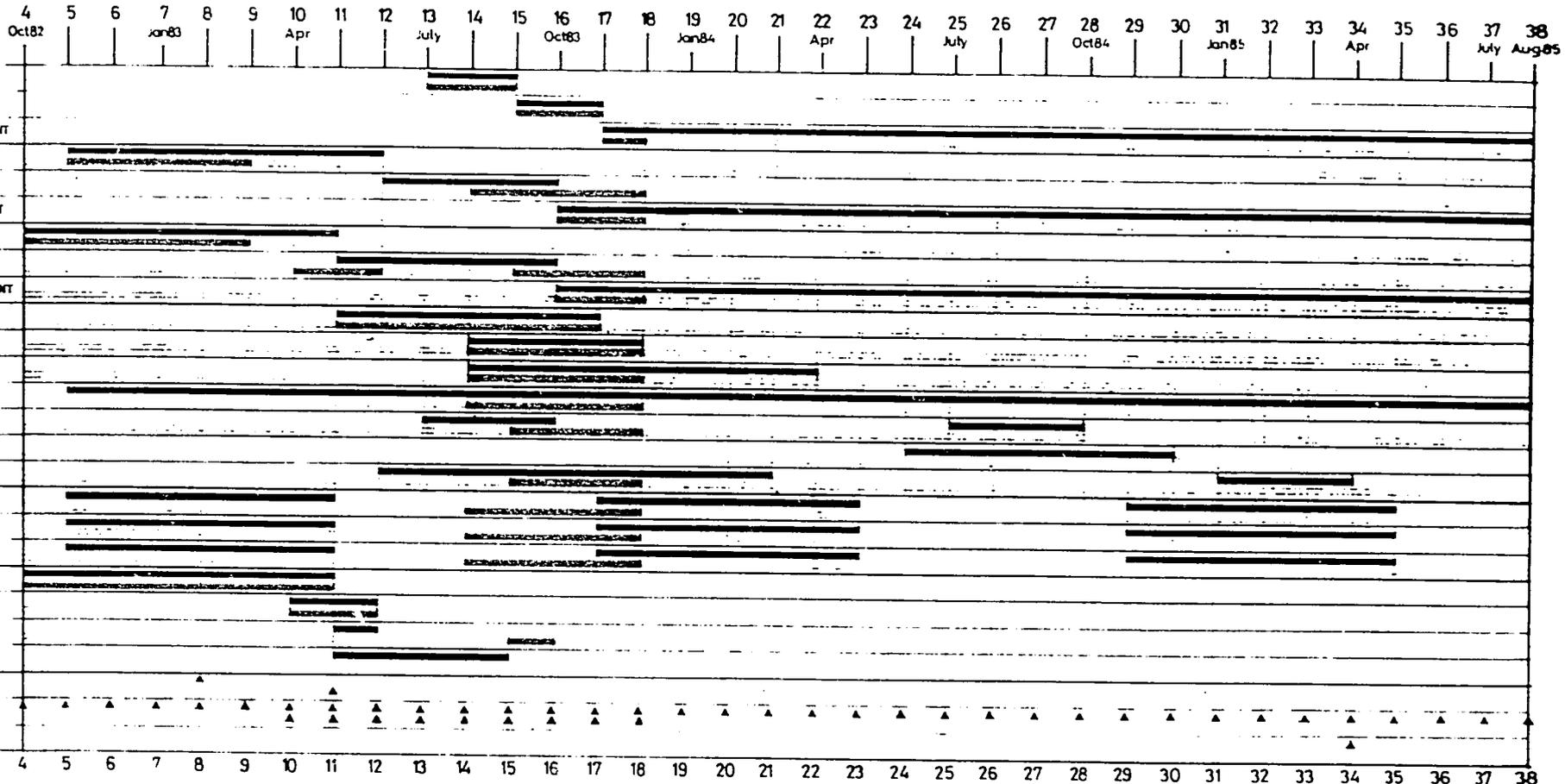
A meeting was held on November 27, 1983 with the Minister of M.L.G in attendance were Mr. Q. I. Siddique, M.L.G., Mr. P. Thorne & Mr. Gene V. George, USAID and Mr. Fred L. Barnes., WSA.

10.2 Visitors

No comment


Fred L. Barnes
Chief of Party

WORK FLOW DIAGRAM
 ZILLA ROAD MAINTENANCE AND IMPROVEMENT PROJECT
 USAID PROJECT NO 388 0056



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SUMMARY FISCAL REPORT
WILBUR SMITH AND ASSOCIATES INC
ZILLA ROADS MAINTENANCE AND IMPROVEMENT PROJECT
US-AID CONTRACT NO: 388-0056-02- HCC.

Project Components	Budgeted Amount		Previous Expenditures		Expenditures-current reporting / Nov'83		Cumulative Expenditure	
	\$	Taka	\$	Taka	\$	Taka	\$	Taka
1. Technical Assistance.	2,563,990	19,390,930	870,611	6,275,469	98,134	348,776	968,745	6,624,245
2. Equipment.	785,000	-	34,106	38,989	78,830	10,000	112,936	48,989
3. Training <u>USAID</u> BDG	300,000	<u>462,500</u> 657,500	2,980	12,135	809	- -	3,709	12,135
4. Road Maintenance Financing By Districts	-	23,095,000	-	-	-	-	-	-
5. Road Development Fund. <u>USAID</u> By Districts	4,000,000	-	-	-	-	-	-	-
	-	34,305,000	-	-	-	-	-	-

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