

FINAL REPORT
BY
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SHORT-TERM MEDIA CONSULTANT

The first two weeks of my tour as Instructional Media Consultant were spent at the SECID home office in Chapel Hill, North Carolina accumulating and reviewing catalogs of media equipment and supplies. Some media software material was purchased. This material and the catalogs were brought to the post by me.

During my eight weeks on post, five of the six agriculture schools were visited. An inventory was made of their media equipment. Equipment not in operating condition was repaired. Demonstrations were given in the proper use and maintenance of the equipment.

The City of Bamako was searched to determine what brands of media equipment were most utilized, as well as the brands more easily repaired locally. No source in Bamako was found where replacement projector lamps could be purchased.

In reviewing the instructional media in the agriculture schools, it was noted that what little material they had was outdated. The equipment was not standardized, some made in France, some in Germany and some in the United States.

It was also observed that the school libraries had little or no resource material. Most schools had at least one small set of 34mm slides. The availability of instructional material varied from one school to another, ranging from inadequate to non-existent. For example, the only teaching aid at the Baguinda School was an old chalkboard that was barely legible.

The only media equipment owned by DETA-FP (Division de l'enseignement Technique Agricole et de la Formation Professionnelle),

which is the administrative division responsible for the agriculture schools, is an old outdated photocopier which does not work any more and cannot be repaired. Equipment is needed which will enable division personnel to reproduce material needed in the supervision of the schools.

The SECID team has the responsibility of revising and reproducing courses, yet it had no reproduction equipment. I was able to locate and purchase locally a Rex-Rotary 400 mimeograph machine and a Rex-Rotary 2002S electronic stencil cutter and trained two local SECID employees in the proper use of this equipment. I then supervised the reproduction of the first course revised by Dr. Son, the SECID curriculum specialist.

Once the equipment and supplies recommended in this report have been purchased, the schools will be able to do a better teaching job, the equipment in all schools will be standardized, equipment can be interchanged between schools, and projection lamp types will be minimized.

I extend my appreciation to Mr. Boubacar Guindo, Project Director, and Mr. Maurice Fleming, Project Manager, for their input and assistance. Thanks to the Directors, Assistant Directors and the Staffs of the CAA/SAMANKO, CAA/M'PESSOBA, CCA/SAME, CSA/KITA and CSA/BAGUINDA for their professionalism in showing this consultant their instructional materials, libraries, equipment and facilities.

A very special thanks to Dr. A. J. Abshire's SECID team. They were very professional and made my stay very productive and enjoyable. Without Mr. Philip Michaud's assistance with communications, it would have been impossible for me to complete my task.

PROJECT GOAL

The main mission of the Centres d'Apprentissage Agricole (CAA) is to train quality extension agents (moniteurs/monitrices) who will be able to assist the local farmers in increasing their overall agricultural production. The central goal of the SECID/USAID project is to assist the CAAs in improving the quality of their instruction.

In order to improve instruction in the CAAs, present courses must be revised, new courses must be reproduced, libraries must be improved, and media materials must be utilized.

To accomplish the project goal of improving instruction, a media center must be established in the division office (DETA-FP) and instructional media added to the schools.

MEDIA CENTER OBJECTIVES

The objectives of a media center are as follows:

- a. produce a variety of media materials (ex. transparencies, 35mm slides, audio cassettes, paper copiers, and mimeograph copiers).
- b. reproduce large quantities (professional quality) of printed instructional materials from electronic or typed stencils.
- c. bind the course materials for distribution.
- d. copy transparencies, 35mm slides, and dub audion-cassettes.
- e. house the media equipment needed to preview various commercial materials prior to purchase.
- f. have the capability to cut an electronic stencil from a drawn, typed or transparent original.
- g. have the equipment to provide in-service workshops.

EQUIPMENT AND SUPPLIES NEEDED FOR THE MEDIA CENTER

The material needed to establish a media center is listed in Attachment A.

Attachment A is a detailed list of the equipment and materials needed for the Media Center.

INSTRUCTIONAL MEDIA NEEDS FOR THE CAAS

In order for the CAAs to improve their training programs, a minimum of instructional media is needed at each school.

Attachment B lists the minimum material needed in a school.

Attachment C lists the material presently at the M'Pessoba school and the additional material needed.

Attachment D lists the material presently at the Samé school and the material needed.

Attachment E lists the material presently at the Samanko school and the material needed.

Attachment F is a composite budget for entire project with recommendations.

ATTACHMENT A

EQUIPMENT AND SUPPLIES NEEDED FOR THE MEDIA CENTER

1. Equipment Needed

| <u>QUANTITY</u> | <u>TYPE OF EQUIPMENT</u> |
|-----------------|--|
| 1 | Thermofax secretary |
| 1 | 35mm Camera W/Macro lens |
| 13 | Cassette recorder/players |
| 1 | Bond paper copier |
| 2 | Mimeograph machine |
| 1 | Opaque projector |
| 1 | Thermal binding system |
| 1 | Slide copier |
| 1 | 16mm Movie Projector |
| 1 | 35mm Slide Projector |
| 1 | Overhead Projector |
| 1 | Electronic stencil cutter |
| 1 | Heavy duty stapler |
| 1 | Paper cutter |
| 1 (set) | Large assortment of graphic, stencils and Drafting equipment |
| 2 | Tri-pod Projection Screens |
| 1 | Dust and Shock resistant camera case |

2. Materials Needed

- Mimeograph paper 8½ x 11" and 8½ x 14"
- Copy machine paper 8½ x 11" and 8½ x 14"
- Ink for mimeograph
- Electronic stencils
- Standard stencils for typed originals
- Poster boards 22 x 28" coated 1 side white
- Photographic slide film
- Photographic mailers
- B & W film
- Thermofax transparencies
- Thermo binding folders
- Staples
- Masking tape & Dispenser
- Transparency frames
- Scotch tapes

ATTACHMENT A DETAILED

1. Equipment Needed

| <u>QUANTITY</u> | <u>PRICE</u> | <u>TYPE OF EQUIPMENT</u> |
|-----------------|--------------|--|
| 1 | 750.00 | Transparency Production Machine Brand: 3M Company Model: Secretary 45 Power: 220/240V 50HZ (Optional) Produces: Transparencies, copies, spirit and mimeo masters WT: 38 lbs. |
| 1 | 320.00 | 35mm Camera Brand: Nikon Model: FM Lens: 55mm/MACRO |
| 3 | 195.00 | Cassette Recorder/Players Brand: Califone Model: 3430 Power: 4 C Size Batteries WT: 3.75 lbs. |
| 1 | 13,000.00 | Bond Paper Copier Brand: Xerox Model: 3107 |
| 1 | 1,200.00 | Mimeograph Machine* Brand: Rex Rotary Model: 450 Power: Opt. 220V or Manual |
| 1 | 500.00 | Mimeograph Machine Brand: Rex Rotary Model: 400 Power: Manual |
| 1 | 800.00 | Opaque Projector* Brand: BUHL Model: MARK IV Power: 220V Optional |
| 1 | 600.00 | Thermo Binding System Model: GBC T170 W/Rack WT: 15 lbs. Power: 230V, 50.60HZ |

Note: Equipment with an asterisk is the standard equipment for all (CAAs).

| <u>QUANTITY</u> | | <u>PRICE</u> | <u>TYPE OF EQUIPMENT</u> |
|---------------------------------|--------|--------------|--|
| 1 | | 40.00 | Slide Copier (Nikon) Variable Slide Copier 1:1 - 1:2 |
| 1 | | 1,025.00 | 16mm Projector* Brand: Bell & Howell Model: 1695A TQ III With Dust Cover |
| 1 | | 360.00 | Slide Projector* Brand: Kodak Model: Ektographic B-ZAR Power: 220-240V WT: 13 lbs. Accessories Case |
| 1 | | 280.00 | Overhead Projector* Brand: BULH Model: 80-14 Standard With Dust Cover |
| 1 | | 2,200.00 | Electronic Stencil Cutter Brand: Rex Rotary Model: 2002S |
| 1 | | 52.00 | Heavy Duty Stapler "The Performer" Cat. # X11-300HD |
| 1 | | 37.00 | Paper Cutter Brand: Premier Size: 12" x 12" Cat. # 08-212 |
| 1 | | 56.00 | Drafting Set Super Custom Drafting Kit Cat. # 06-38QA-015 |
| 2 | \$115@ | 230.00 | Tripod Projection Screens* Draper Screen and Shade Co. Model: Diplomat Size: 60 x 60" Glass Beaded |
| 1 | | 120.00 | Dust Proof and Shock Resistant Camera Case Brand: Zero Halliburton Model: 105 Color: Silver |
| Total Cost for All Equipment | | \$21,770.00 | |

Materials Needed for the Media Center

| <u>Needs</u> | <u>Total Cost</u> |
|---|--------------------|
| 720 (reams) of 8½ x 11" Mimeograph Paper | \$ 5,407.00 |
| 60 (reams) of 8½ x 14" Mimeograph Paper | 675.00 |
| 150 Cans of Rex Rotary Ink (300 gr.) | 975.00 |
| 33 Boxes of (100) Electronic Stencils | 3,795.00 |
| 10 Boxes of (100) Standard Stencils | 800.00 |
| 100 Rolls of KR-135-20 Slide Film | 350.00 |
| 100 Photographi Slide Mailers (PK-20) | 320.00 |
| 50 Rolls of Plus-X-20 B&W Film | 100.00 |
| 30 Boxes of TYPE 529 Thermofax Transparencies | 1,080.00 |
| 10 Boxes of TYPE 503 Xerox Transparencies | 300.00 |
| 100 Boxes of Therm-A-Bind Covers | 1,625.00 |
| 50 (reams) of Bond Paper 8½ x 11" | 400.00 |
| 50 (reams) of Bond Paper 8½ x 14" | 500.00 |
| 200 Sheets of Poster Board 22 x 28 Cls | 85.00 |
| 40 Standard (80) Carousel Slide Trays | 224.00 |
| Assorted Supplies | 1,500.00 |
| 4,000 Transparency Frames | 600.00 |
| | <u>\$18,512.00</u> |

ATTACHMENT B

MINIMUM MATERIAL NEEDED IN A SCHOOL

- (1) 35mm Slide Projector and Case
- (1) 16mm Projector and dust cover
- (1) Overhead projector and dust cover
- (1) Opaque projector and dust cover
- (1) Filmstrip projector and dust cover
- (1) Mimeograph machine
- (2) Audio cassette recorder/players
- (1) 35mm Camera W/Macro lens
- (1) Camera case - dust proof
- (1) Paper cutter

- (10) Carousel slide tray
- (20) Audio cassettes (10) C-60 & (10) C-90
- (10) Replacement lamps for each projector listed above
- (200) Sheets transparency film
- (10) Transparency pens (5) permanent, (5) non-permanent
- (10) Colored pencils for map/chart production
- (1) Box of 100 stencils
- (10) Shems (500 sheets each)
- (5) Cans of ink for mimeograph

ATTACHMENT C

M'PESSOBA SCHOOL

I. Material presently at the school (November 15, 1982)

QUANTITY

MATERIAL

- (1) Opaque projector*
Model: Mark IV (4-006) with pointer
and roll feed
Brand: BUHL
Power: 220V Optional
Lamp: DWK GE 230V - 1000W
Price: \$750.00
- (1) Overhead Projector*
Model: 80 - 14 Standard
Brand: BUHL
Power: 220V Optional
Lamp: DYR 650-220V
Price: \$240.00
Accessories: Dust Cover \$15.35
- (1) Slide Projector*
Model: Ektagraphic B-2 Ar
Brand: Kodak
Power: 220-240V
Weight: 13 lbs.
Price: \$318.00
Accessories: Needs case \$44.00
- (1) Roving Rostrum
Model: S-122
Brand: Perma Power Electronics Inc.
Type: Table top 6" legs
Microphone: Dynamic cardioid W/10' cable
Amp.: 12/40W
Power: 10 D-size flashlight alkaline batt
- Lamps Available:
3 - EJL 200W 240V
6 - ELH 300W - 120V
6 - DYR 650W - 220V
1 - BAK 4V-0.75A
3 - DWK 230V 100W
- (3) Screens Projection
(2) Wall type
(1) Tri-pod
- Slide Projector
Overhead Projector
16mm Exciter Lamps

OTHER MEDIA SOFTWARE

- (8) - C-60 Audio Cassettes
- (8) - C-90 Audio Cassettes
- (100) Clear transparencies
- (10) Transparency pens

2. Material needed at the school

| <u>QUANTITY</u> | <u>UNIT PRICE</u> | <u>TOTAL PRICE</u> | <u>MATERIALS/OR EQUIPMENT TYPE</u> |
|-----------------|-------------------|--------------------|--------------------------------------|
| 1 | 40.00 | \$ 40.00 | Case for slide projector |
| 10 | 5.60 | 56.00 | Standard (80) carousel trays |
| 1 | | 1,025.00 | 16mm Projector |
| 1 | | 950.00 | Mimeograph machine and dust cover |
| 2 | 65.00 | 130.00 | Audio cassette recorder/players |
| 20 | .75 | 15.00 | D-size flashlight batteries |
| 20 | .75 | 15.00 | C-size flashlight batteries |
| 7 | 22.00 | 154.00 | ELH - Slide projector lamps |
| 4 | 21.00 | 84.00 | DYR - Overhead projector lamps |
| 2 | 15.00 | 30.00 | BAK - 16mm exciter lamps |
| 7 | 18.00 | 126.00 | DWK - Opaque projector lamps |
| 10 | 19.00 | 190.00 | EMM - 16mm projector lamps |
| 1 | | 320.00 | 35mm camera/w Macro Lens |
| 1 | | 120.00 | Dust and shock resistant camera case |
| Total | | <u>\$3,255.00</u> | |

ATTACHMENT D

SAME SCHOOL

1. Material presently at the school

QUANTITY

MATERIAL

- (1) Opaque Projector*
Brand: BUHL
Model: MARK IV(4-006) W/Pointer & Roll fe
Power: 220V
Lamp: G.E. (DWK 230V-1000W)
Accessories: Dust cover
- (1) Overhead Projector
Brand: BUHL
Model: 80-14 Standard
Power: 220V
Lamp: DYR 650 - 220V
Price: \$240.00
Accessories: Dust Cover
- (1) Slide Projector*
Brand: Kodak
Model: Ektagraphic (B-2AR)
Power: 220-240V
Lamp: ELH 300W 120V
Price: \$318.00
Accessories: Needs case
- (1) Paper Cutter*
Size: 18 x 18"
Style: Table Model
- (1) Roving Rostrum
Brand: Perma Power Electronics Inc.
Model: S-122
Type: Table top W/6" legs
Microphone: Dynamic cardioid W/10' cable
Power: 10 D-size alkaline batteries

Projection Lamps

- (3) ELH 300W-120V slide projector
(3) EYL 200W-24V 16mm
(6) DYR 650-220V Overhead projector
(3) DWK 230V-1000W Opaque projector
(1) BAK 4V - 0.75 16mm Exciter Lamp

QUANTITY

MATERIAL

OTHER MEDIA (SOFTWARE)

(8) C-60 Audio cassettes
 (8) C-90 Audio cassettes
 (100) Clear Transparencies

(3) Projection Screens
 (2) Wall type
 (1) Tri-pod.

2. Material needed at the school

| <u>QUANTITY</u> | <u>UNIT PRICE</u> | <u>TOTAL PRICE</u> | <u>MATERIAL/OR EQUIPMENT TYPE</u> |
|-----------------|-------------------|--------------------|-----------------------------------|
| 1 | | \$ 40.00 | Case for slide projector |
| 10 | 5.60 | 56.00 | Standard (80) carousel slide tra |
| 1 | | 1,025.00 | 16mm projector |
| 1 | | 950.00 | Mimeograph machine |
| 2 | 65.00 | 130.00 | Audio cassette recorder/player |
| 20 | .75 | 15.00 | D-size alkaline batteries |
| 1 | | 320.00 | 35mm camera/w macro lens |
| 1 | | 120.00 | Dust & shock resistant camera ca |
| 7 | 22.00 | 154.00 | ELH Slide projector lamps |
| 4 | 21.00 | 84.00 | DYR overhead projector lamps |
| 2 | 15.00 | 30.00 | BAK 16mm exciter lamps |
| 7 | 18.00 | 126.00 | DWK opaque projector lamps |
| 10 | 19.00 | 190.00 | EMM 16mm projector lamps |
| | Total | <u>\$3,240.00</u> | |

ATTACHMENT E

SAMANKO SCHOOL

1. Material presently at the school (November 15, 1982)

| <u>QUANTITY</u> | <u>MATERIAL/EQUIPMENT</u> |
|-----------------|--|
| (1) | Mimeograph duplicating machine* Brand: Rex Rotary Model: 450 Power: 220V |
| (1) | 16mm Projector Brand: Bell & Howell* Model: 1695A Autoload TQ III Specialist Lamp: EMM-24V 250W Exciter: 4V-0.75A Needs dust cover |
| (1) | Slide Projector (Not Standardized) Brand: Prestinox S.A. Model: 700 Power: 220V Lamp: 230W 24V 150W |
| (1) | Overhead Projector (Not Standardized) Brand: FAMULUS Model: 800 Lamp: 7764 8K Philips Holland Power: 220V-230V Accessories: Auto controllable |
| (1) | Spirit Duplicator (Not Standardized) Brand: Metro Operation: Manual |
| | <u>Replacement Lamps:</u> |
| | (5) EMM-24V-250W 16mm projector |
| | (5) 230W 24V-150W slide projector |
| | (5) Philips Holland 7764 8K Overhead projec |

OTHER MEDIA SOFTWARE

- (1) Transparency production kit
- (100) Clear Transparency marking pens

2. Material needed at the school

| <u>QUANTITY</u> | <u>UNIT PRICE</u> | <u>TOTAL PRICE</u> | <u>MATERIAL/OR EQUIPMENT TYPE</u> |
|-----------------|-------------------|--------------------|--------------------------------------|
| 1 | | \$ 800.00 | Opaque Projector |
| 1 | | 360.00 | 35mm slide projector and case |
| 10 | 5.60 | 56.00 | Kodak carousel (80) standard tra |
| 1 | | 280.00 | Overhead projector |
| 2 | 65.00 | 130.00 | Audio cassette recorder/player |
| 10 | 3.50 | 35.00 | C-60 audio cassettes |
| 10 | 3.75 | 37.50 | C-90 audio cassettes |
| 10 | 22.00 | 220.00 | ELH slide projector lamps |
| 10 | 21.00 | 210.00 | DYR overhead projector lamps |
| 10 | 18.00 | 180.00 | DWK Opaque projector lamps |
| 5 | 19.00 | 95.00 | EMM 16mm projector lamps |
| 1 | | 37.00 | Paper Cutter |
| 1 | | 320.00 | 35mm camera/w macro lens |
| 1 | | 120.00 | Dust and shock resistant camera lens |
| Total | | <u>\$2,880.50</u> | |

ATTACHMENT F

Media Center

| | |
|-----------|--------------------|
| Equipment | \$21,750.00 |
| Materials | 18,736.00 |
| *Special | 30,000.00 |
| Sub-Total | <u>\$70,486.00</u> |

M'PESSOBA

| | |
|---------------------|-------------|
| Equipment/Materials | \$ 3,255.00 |
|---------------------|-------------|

SAMANKO

| | |
|---------------------|-------------|
| Equipment/Materials | \$ 2,880.50 |
|---------------------|-------------|

SAME'

| | |
|---------------------|--------------------|
| Equipment/Materials | \$ 3,240.00 |
| Sub-CAA totals | <u>\$ 9,375.00</u> |
| Total | <u>\$79,861.50</u> |

*This SPECIAL is to be used by the SECID Agriculture Instructors to purchase commercially produced instructional materials, \$10,000/school.