



Africare

"L'Amélioration de la qualité de la vie en Afrique rurale
en développant les ressources hydrauliques, la production agricole, et les services de santé."

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Chad Relief and Rehabilitation Project :

Grant N°. 677-0000-G-00-3168-00

Project N°. 677-0041

ACTIVITY PROGRESS REPORT N°. 3.

ACTIVITY TITLE: HEAVY EQUIPMENT AND ROAD REHABILITATION

ACTIVITY N°: PIO/T 677-0041-3-20022

EXECUTIVE ORGANIZATION: AFRICARE

DEPARTMENT: CHAD

CERTIFYING OFFICER: Dan Gerber, Country Representative

Submitted to: USAID Representative to Chad
Director Ministry of Public Works

CC: Office of Development Information
and Utilisation

Bureau for Development Support
USAID/W

April - June 1984

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HEAVY EQUIPMENT AND ROAD REHABILITATION
MONTHLY REPORTS APRIL, MAY, AND JUNE 1984

PIO/T NO. 677-0041-3-20022

I. ACTIVITY DESCRIPTION

The goal of this sub-activity is:

- A. To repair heavy equipment used for roads belonging to the Chadian Ministry of Public Works and:
- B. The rehabilitation of selected rural roads found in Chad. The repair of the heavy equipment and the rehabilitation of roads is to address the following problems:
 - 1) Due to the rainy season each year in Chad, the roads are in need of extensive maintenance. Since the civil war in 1979 . . . virtually no road maintenance has been performed.
 - 2) The repair of the roads is a high priority of the new government as improving the roads will ameliorate conditions brought on by the civil war and drought and facilitate the transport of food and the resumption of commercial and economic activities.

II. IMPLEMENTATION

(Format is that of original implementation plan).

- A. Provision of an adequate work environment and material capability for the repair of heavy equipment.
 - 1) The repair work to the central workshop facility was to have been completed on June 13th, 1984. At the time of this report an estimate of work completed so far would not exceed 60 % the total.
 - 2) WORKFORCE

A remarkable increase in worker productivity has been experienced, due primarily to the decrease in absences and tardiness. This can be attributed to the following factors:

providing workers transport home at the end of each work day; implementation of a Food for Work Program; purchase of tools; increase in morale as the repair shop assumes a worklike atmosphere.

3) TOOLS AND EQUIPMENT

- a) A sufficient quantity of tools^{and} equipment were purchased during this period to permit basic repairs to the heavy equipment, however, a considerable quantity of tool remain to be procured.
- b) Some salvage of tools and equipment has been carried out on an as-needed basis and is expected to continue.

4) MANAGEMENT

Considerable progress was made during this period in coordination of activities, planning and cooperation. Progress has been made in all areas and is expected to continue under the present structure.

B. REHABILITATION OF HEAVY EQUIPMENT

- 1) A repair plan is in effect and is on schedule.
- 2) Parts for repair are proving difficult to obtain and procurement is falling behind schedule.
- 3) Repair and testing of heavy equipment is on schedule.
- 4) Four pieces of heavy equipment have been made operational during this period and this is on schedule.
- 5) Retrieval has not been undertaken during this period due to the lack of many resources. This has not yet interfered with productivity as sufficient heavy equipment to undergo repairs is already on site.

C. ROAD REHABILITATION

To this time a road repair plan has not yet been presented to AID by Public Works. As the necessary pieces of heavy equipment to from a road brigade have not yet been repaired and in light of the anticipated rainy season, the lack of a repair plan has not yet caused any delays. Nonetheless, the plan should have been written to avoid future delays.

D. EVALUATION

A mid term evaluation has not yet taken place.

III. OBJECTIVES/TARGETS

- A. Provision of an adequate work environment and a material capability to repair heavy equipment.
- B. Rehabilitation of heavy equipment.
- C. Road Rehabilitation. As to the first two objectives the project is meeting its objectives and targets in virtually all areas except for the rehabilitation of the workshop and the purchase of spare parts. As to the third objective, targets have not yet been made known by Public Works. CARE/CHAD in their component of the project has made progress and reference should be made to their reports.

IV. PHYSICAL PROGRESS

A. Workshop

The rehabilitation of the workshop has been erratic. The floors of the individual sections have been re-done. Work is proceeding on the center section of the large work area where the vehicles to be repaired are to be parked. Cracks in the walls have been repaired. Some doors and windows have been installed. Part of the shop is supplied with electricity and water is now available. The following work to the shop remains to be completed: painting of walls; termination of electrical installation; main aisles of work area to be re-poured; doors and windows installed. Despite establishment of repair priorities, namely electrical installations, and doors and windows so as to be able to lock up the shop each night, these priorities have not been followed and continue to not be followed. This continues to pose considerable problems as to workshop activities concerning the repair of heavy equipment and security of equipment and tools.

Furthermore, other repairs of a lower priority have been started in several locations of the workshop. Due to the fact that few of these areas were brought to completion has led to considerable disruption of heavy equipment repair activities.

Another issue that has been brought to the attention of USAID by the PW(Public Works) is the concern by PW as to the composition of the floor concrete, how it is mixed, and the manner in which the joints in the floor are filled. Deterioration in some areas under what may be considered normal use has been noted. Reference should be made to USAID reports on this issue. Internal recuperation and repair of shop equipment by PW has been initiated.

B. WORKFORCE

A dramatic increase in worker attendance has been noted due to the following initiation of a food for work program; provision of worker transport at the end of the day; purchase of tools; improved work environment. Excluding five personnel on long term leave, the remaining forty workers have an average daily attendance of 90 %.

C. TOOLS AND EQUIPMENT

A trip was made to Cameroon in May and 2,000,000 francs of tools, parts and equipment were purchased at that time. These tools are sufficient to permit minimum heavy equipment repair operation. Salvage operations of existing tools and equipment have been initiated.

D. MANAGEMENT

- 1) A survey of four pieces of heavy equipment have been made.
- 2) Repair records for six other pieces of heavy equipment have been initiated.
- 3) Pro-forms for some technical manuals have been sought.
- 4) Accountability systems have been updated and are operational.
- 5) Workshop management is presently in process of implementing daily and weekly planning systems. The implementation of these systems is timely as repair operations are approaching a degree of normalcy and the need for planning and assigning of responsibilities is becoming more critical.
- 6) Shop safety has been improved with the purchase of eye protection and protective clothing for welding and the handling of battery acid.
- 7) Workshop maintenance has not yet been implemented.

E. REHABILITATION OF HEAVY EQUIPMENT

- 1) A heavy equipment repair plan was prepared by PW and submitted to AID on May 25th. It is presently being implemented.

- 2) Two attempts at parts procurement have been made. One order was placed with the International Harvester representative, who as of this date, has not yet received any response from the distributor in France. A second order was sent to the States for bids also, to date, without satisfactory results.
- 3) The following pieces of heavy equipment are currently undergoing repair and testing:

- 1 Mobile workshop I H 1750
- 1 Road grader IH Galion
- 1 Bull Dozer IH TD-20
- 1 Tractor Agriculture type IH Seaman
- 1 Truck personnel transport IH 1850
- 1 Bull Dozer Caterpillar D-6

F. HEAVY EQUIPMENT INTO SERVICE

The following pieces of heavy equipment have been made operational and are currently in use for road repairs:

- 1 Truck cistern Berliet
- 1 Front end loader IH 530
- 1 Road Grader IH Galion
- 1 Traxcavator Caterpillar 977 H

G. HEAVY EQUIPMENT RETRIEVAL

- 1.) OFNR (Office National des Routes) is now in the process of compiling an inventory of T.P. heavy equipment, its location and general condition. This represents quite a task due to the physical size of Chad, the extreme dispersal of the equipment following the civil disturbances, and destroyed records.
- 2.) The provision of a tractor and a trailer for the retrieval of heavy equipment has been arranged with the French Agency presently repairing the N'Djamena-Abeche road for the loan of said tractor/trailer.

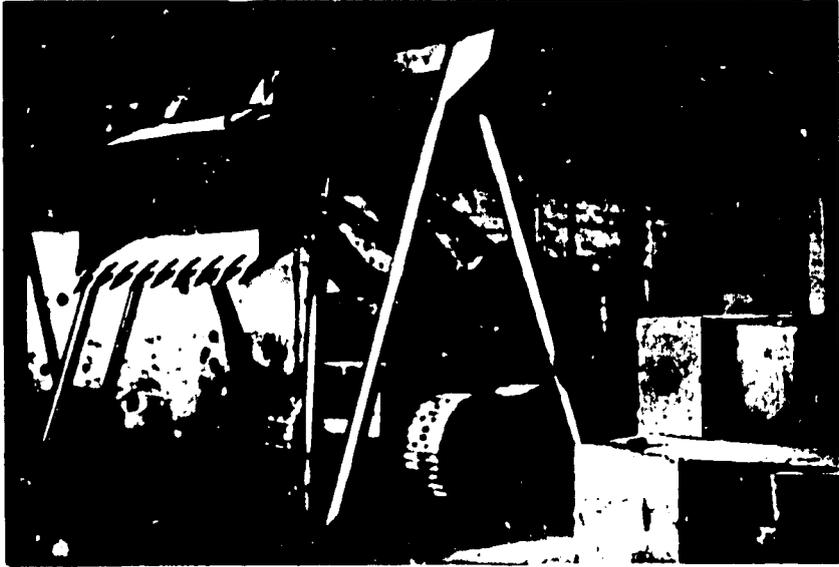


Public Works
engine overhaul
room prior to
clean up and repairs.

Vehicles with
overgrown
vegetation -
Public Works
grounds. Clean
up is now
underway.



Master mechanic
Henry Tyszka in
front of mobile
workshop. Work-
shop has been
partially repaired
and is currently
being used to help
repair other
vehicles.



Bulldozer already repaired and used for road rehabilitation.



The Director of Public Works and Henry Tyszka in front of Galion grader which has now been repaired.

H. ROAD REHABILITATION-WORK PLAN AND USAID REQUIREMENT

During this period a USAID funded consultant was engaged in the verification of the Public Works systems of accounting and inventory. Reference should be made to his report. Apparently a preliminary work plan for road rehabilitation is being prepared by OPNR.

J. EVALUATIONS

Provision for a mid-term evaluation has not yet been addressed.

V. MAJOR ACCOMPLISHMENT WITH RESPECT TO OVERALL PURPOSE.

Most areas of the project have made significant progress during this period. In particular a marked increase is apparent in the following areas:

- A. Collaboration with the Ministry of Public Works.
- B. Worker attendance.
- C. Purchase of shop tools and equipment.
- D. Number of vehicles made operational and the number of those currently undergoing repairs.

VI. DELAYS AND BOTTLENECKS

Workshop rehabilitation: the termination date for the repair has been exceeded and an estimated 40 % of the work remains to be completed. The causes appear to be lack of materials locally available and lack of manpower on site. Reference should be made to reports of AID personnel for this component. It should also be noted that PW has raised several issues as to the quality of the work undertaken so far.

Parts procurement: this component is fast becoming a major concern as the procurement of parts is fraught with delays. No word has yet been received on a request for bids handcarried to Africare Washington on May 27th. No word has yet been received on a parts order placed with a local representative on May 14 th. Follow up attempts have produced no results. It may become necessary to place orders directly with the suppliers in Europe or the States by telex, mail or in person.

Tool procurement: despite an initial procurement of tools to permit start up repairs, much more equipment is needed and funds for their procurement are inadequate as presently provided in the project budget. An amendment to the budget is needed.

Technical advisor: in the scope of project activities an inadequate amount of time was allotted in the supervision of repairs to the heavy equipment. This component could benefit from a constant monitoring to increase the output of the repair shop.

Worker productivity: concurrent with the increased worker attendance was an increase in worker productivity. A productivity of 50 % is estimated, which represents a 100 % increase over the period of the previous report. Improvements could best be sought in the areas of workshop level planning and management especially as concerns keeping workers on-task.

General remarks: the normal evolution of a project includes continuing refinement of project objectives and an awareness of additional unforeseen requirements to obtain project goals. These are signs of positive change and the project is exhibiting this phenomena at the present time. Nonetheless, it is anticipated that if the present situation maintains its rate of growth the project goals will be reached on schedule.

VII. NON-AID INPUTS

CARE/CHAD: the Food for Work Program has been initiated with the collaboration of CARE/CHAD and has been carried out with efficiency and punctuality.

VIII. OTHER

A. Financial Status Report

Attachment A is the Financial Status Report for the period January 1, 1984 to March 31, 1984.

B. Africare/Chad's local expenditures

Attachment B is a chart detailing local expenditures charged to the project during the reporting period. The figures given are based on Africare Chad reports sent to the main office in Washington and must be viewed as unofficial pending issuance of the Africare Washington Report.

FINANCIAL STATUS REPORT

(Follow instructions on the back)

1. FEDERAL AGENCY AND ORGANIZATIONAL ELEMENT TO WHICH REPORT IS SUBMITTED UNITED STATES AGENCY FOR INTERNATIONAL DEVELOPMENT	2. FEDERAL GRANT OR OTHER IDENTIFYING NUMBER 677-0000-G-00-3168-00	OMB Approved No. 50-RO180	PAGE OF 1 1 PAGES
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3. RECIPIENT ORGANIZATION (Name and complete address, including ZIP code) AFRICARE 1801 Connecticut Ave., N.W. Washington, D.C. 20009	4. EMPLOYER IDENTIFICATION NUMBER 23-7116952	5. RECIPIENT ACCOUNT NUMBER OR IDENTIFYING NUMBER 2203 CHAD MECHANIC	6. FINAL REPORT <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	7. BASIS <input type="checkbox"/> CASH <input checked="" type="checkbox"/> ACCRUAL
8. PROJECT/GRANT PERIOD (See instructions) FROM (Month, day, year) 10/03/83		9. PERIOD COVERED BY THIS REPORT TO (Month, day, year) 06/01/85		10. FROM (Month, day, year) 01/01/84

PROGRAMS/FUNCTIONS/ACTIVITIES ▶	STATUS OF FUNDS						
	(a) PERSONNEL	(b) TRAVEL AND ALLOWANCES	(c) EQUIPMENT	(d) SUPPLIES	(e) OTHER DIRECT	(f) INDIRECT COST	TOTAL (g)
a. Net outlays previously reported	\$ 462.20	\$ 3,728.90	\$ -0-	\$ -0-	\$ 18.70	\$ 903.00	\$ 5,112.80
b. Total outlays this report period	13,124.51	8,250.59	2,276.96	596.58	-0-	4,892.43	29,141.07
c. Less: Program income credits	-0-	-0-	-0-	-0-	-0-	-0-	-0-
d. Net outlays this report period (Line b minus line c)	13,124.51	8,250.59	2,276.96	596.58	-0-	4,892.43	29,141.07
e. Net outlays to date (Line a plus line d)	13,586.71	11,979.49	2,276.96	596.58	18.70	5,795.43	34,253.87
f. Less: Non-Federal share of outlays	-0-	-0-	-0-	-0-	-0-	-0-	-0-
g. Total Federal share of outlays (Line e minus line f)	13,586.71	11,979.49	2,276.96	596.58	18.70	5,795.43	34,253.87
h. Total unliquidated obligations	-0-	-0-	-0-	-0-	-0-	-0-	-0-
i. Less: Non-Federal share of unliquidated obligations shown on line h	-0-	-0-	-0-	-0-	-0-	-0-	-0-
j. Federal share of unliquidated obligations	-0-	-0-	-0-	-0-	-0-	-0-	-0-
k. Total Federal share of outlays and unliquidated obligations	13,586.71	11,979.49	2,276.96	596.58	18.70	5,795.43	34,253.87
l. Total cumulative amount of Federal funds authorized	64,480.00	46,980.00	20,532.00	1,500.00	200.00	26,308.00	160,000.00
m. Unobligated balance of Federal funds	50,893.29	35,000.51	18,255.04	903.42	181.30	20,512.57	125,746.13

11. INDIRECT EXPENSE	a. TYPE OF RATE (Place "X" in appropriate box) <input checked="" type="checkbox"/> PROVISIONAL <input type="checkbox"/> PREDETERMINED <input type="checkbox"/> FINAL <input type="checkbox"/> FIXED	b. RATE		
	10.7%	c. BASE \$ 2,873.54	d. TOTAL AMOUNT \$ 307.47	e. FEDERAL SHARE \$ 4,892.43
12. REMARKS: Decreasing 1	21.45%	\$21,375.10	\$4,584.96	ag. agency in compliance with
		\$24,248.64	\$4,892.43	

13. CERTIFICATION
I certify to the best of my knowledge and belief that this report is correct and complete and that all outlays and unliquidated obligations are for the purposes set forth in the award documents.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL
C. Payne Lucas
TYPED OR PRINTED NAME AND TITLE
C. PAYNE LUCAS
EXECUTIVE DIRECTOR

DATE REPORT SUBMITTED
06/04/84
TELEPHONE (Area code, number and extension)
(202) 462-3614

700-101 NOTE: Indirect Cost based on currently approved provisional rate. Africare has requested approval of rate increase for FY '82 and FY '83.

BUDGET: COST ELEMENT		BALANCE AT BEGINNING OF REPORTING PERIOD	AFRICARE LINE ITEMS		LOCAL EXPENDITURES				BALANCE AT END OF REPORTING PERIOD	
DESCRIPTION	AMOUNT (\$)		N°	DESCRIPTION	MONTH <u>April</u> (\$ 1.00= 413 CFA)	MONTH <u>May</u> (\$ 1.00= 418,8 CFA)	MONTH <u>June</u> (\$ 1.00= 425 CFA)	TOTAL (\$)		
SALARY, FRINGE AND OTHER PERSONNEL COSTS	64,480	50,894	02	LOCAL HIRE	122	136	135	393	SUB-TOTAL 50,370	
			06	EMP: EMPLOYEES	131	Ø	Ø	131		
			11- 20	FRINGE BENEFITS	Ø	Ø	Ø	Ø		
				SUB-TOTAL	253	136	135	524		
TRAVEL, HOUSING AND RELOCATION	46,980	35,001	29	HOUSEHOLD FURNISHINGS	126	136	Ø	262	SUB-TOTAL 32,914	
			30	HOUSING MAINTENANCE AND REPAIRS	Ø	83	Ø	83		
			31	HOUSING/OFFICE RENTAL	Ø	Ø	1,271	1,271		
			32	GENERAL TRAVEL	12	38	Ø	50		
			33	PER DIEM	130	209	Ø	339		
			37	INTERNATIONAL TRAVEL	Ø	31	Ø	31		
			38	INTERNATIONAL SUBSISTENCE	Ø	239	(188)	51		
				SUB-TOTAL	268	736	1,083	2,087		

EQUIPMENT	20,532	18,255	40	PUBLIC WORKS EQUIPMENT	385	4,923	786	6,094	
			51	MOTORCYCLES	ø	ø	ø	ø	
			52	OFFICE EQUIPMENT	ø	640	21	661	
				Subtotal	385	5,563	807	6,755	SUB-TOTAL 11,500
SUPPLIES, PARTICIPANT, TRAINING, CONSTRUCTION COST	1,500	903	63	OFFICE SUPPLIES	17	261	211	489	
				Subtotal	17	261	211	489	SUB-TOTAL 414
BUSINESS/OTHER DIRECT COST	200	181	85	INSURANCE	ø	ø	ø	ø	
				Subtotal	ø	ø	ø	ø	SUB-TOTAL 181
INDIRECT LEVEL I (21.45 %)	23,951	20,515	-	-	NO LOCAL EXPENDITURES			-	20,694
INDIRECT LEVEL II (10.7 %)	2,357		-	-	-	-	-	-	
TOTAL	160,000	125,747			923	6,696	2,236	9,855	115,892

♦ N.B. These expenditures along with the necessary supporting documentation (invoices, receipts, etc.) have been submitted in monthly financial reports to Africare Headquarters. The quarterly financial report, A.I.D. Form 269, will be prepared by Africare Headquarters. Form 269 is, of course, the official reporting document to USAID on the financial status of this project and, in case any minor discrepancy with this document, is considered binding. This document is only intended to serve as an interim report. The monthly exchange rates used in this document have been determined by Africare Headquarters. (The June rate is estimated).