



Chemonics International

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**Madagascar Cyclone Recovery Program
Rural Roads Infrastructure and Systems Rehabilitation
ReCAP Project**



Eighth Quarterly Report

October 1, 2002 to December 31, 2002

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This report is submitted before the end of the quarter at the request of USAID/Madagascar.

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List of Acronyms

AUP	Association des Usagers de la Piste (Road Users Association)
CO	Contracting Officer
COP	Chief of Party
EIA	Environmental Impact Assessment
ESF	Environmental Screening Form
FCE	Fianarantsoa Cote Est Rail Line
FCER	FCE Réhabilitation Project
FAR	Fédéral Acquisition Régulations
FID	Fonds d'Intervention pour le Développement
FMG	Malagasy Francs
GOM	Government of Madagascar
GTDR	Groupe Technique pour le Développement Rurale
IQC	Indefinite Quality Contract
LDI	Landscape Development Interventions
MOE	Ministry of Environment
MTP	Ministère des Travaux Publics
ONE	Office Nationale de l'Environnement
PST	Programme Sectoriel de Transport
RAISE	Rural and Agricultural Income with a Sustainable Environment
RFB	Request for Bids
RFP	Request for Proposals
RIP	Route d'Intérêt Provincial (Road of Provincial Interest)
RP	Route Provinciale
RN	Route Nationale
RNT	Route Nationale Temporaire (Temporary National Road)
SG	Secretary General
TVA	Value Added Tax
USAID	United States Agency for International Development
USG	United States Government

1. Executive Summary

USAID extended the project PACD from December 15, 2002 to June 30, 2003 in early November 2002. The process started in July when Chemonics submitted an extension proposal at the request of the mission. The additional period will be used to prolong the guarantee periods for the roads, provide additional support to the AUPs and complete the rehabilitation of the north wharf at the port of Manakara.

The subcontract with Colas for the wharf work was signed on November 5 and work will be completed in April 2003.

EGECOT completed the rehabilitation of the first two warehouses at the port of Mankara this quarter and the provisional acceptance was held on October 23. EGECOT also won the RFB for the rehabilitation of an additional warehouse. Work will start in December and be completed in the first quarter of 2003.

All road rehabilitation work will be completed before the end of this quarter and the provisional acceptances of the remaining projects will take place in December and January 2003. The table below shows the proposed dates of the provisional acceptances.

Table1: Provisional acceptance dates for remaining ReCap road projects

Road	Section	Firm	Date of Provisional Acceptance
Ankazotsaravolo to Antanandava	Lot 4	EGECA	12/5/02
Ankasina to Antendrondrano	Lot 1	Tahina	12/6/02
Ambohijanaharikely to Kaloara	Lot 2	ARR	12/6/02
Tsarahonenana to Betsianjava	Lot 5	Tolotsoa	12/6/02
RP 1102F/Bekatra to Lokomby to RN 12	PK 0 to 32	ARR	12/18/02
Andromba to Ambatomafana	Lot 6	EGECORAM	12/21/02
Ambavahadiromba to Antsahalemaka	Lot 3	Groupema	12/21/02
RNT 14/Ifanadiana to Tolongoina	Lot 1	EBMA	1/13/03
RP 4A/Andemaka to Manampatrana	PK 0 to 6	EGECORAM	1/13/03
RNT 14/Tolongoina to Ikongo	Lot 2	EGECORAM	1/13/03

Nineteen AUPs were created in the Ambatondrazaka/Imerimandroso region during the quarter and formal training sessions were held from October 30 to November 1. Toll collection on the Sahasinaka road started on November 19 and the transfer of management from the communes to the AUPs took place at a signing ceremony on November 21. Public meetings on the toll issue were held in the communes along the RNT 14 in November, a convention authorizing toll collection was signed with the Ministry of Public Works in early December and toll collection will begin in January 2003.

Alain Dubé, a Project Manager for the Quebec Ministry of Transportation and World Bank consultant provided engineering expertise to the project during the month of October. USAID also conducted an evaluation of its Cyclone Recovery Programs during the same period.

2. Report on Results

The results below are projections to the end of the quarter.

Table 2: ReCap Results Tracking Table

Results	Target	Completed to Date	Amount Remaining	Percent Completed
RIP 4 rehabilitated	93 km.	93 km.	0 km.	100
Road User Associations created along the RIP 4	20	8	12	40
Tertiary Roads Rehabilitated	140 km.	140 km.	0 km.	100
Road User Associations Created along the Tertiary Roads	30	24	6	80
Manakara Port Warehouse Roofs Repaired and Wharf Stabilized	2	1	1	50

3. Progress against Milestones

All project targets will be met by the end of the quarter with the exception of the rehabilitation of the wharf at the port of Manakara. Work has begun and will be completed by April 2003.

4. Activities during the Quarter

a. *RNT 14/RIP 4 Secondary Road (93 km.)*

Lot 1, PK 0 to PK 41, EBMA – Work progressed well during the quarter on Section 1 of the RNT 14 and was completed on December 13. The technical acceptance is scheduled to take place on December 17. As of November 6, 2002, 91 percent of the work had been completed.

Lot 2, PK 46 to PK 93, EGEORAM – Work on Lot 2 from Tolongoina to Ikongo progressed slowly during the quarter due to the over-extension of the firm. EGEORAM was also working on two other subcontracts totaling over twenty kilometers for the ReCap project and they also started work on a contract to rehabilitate a 63 km. section of the RN 44 from the Ministry of Public Works. Work on lot 2 was completed on December 13 and the provisional acceptance will occur in early January. As of the beginning of the quarter work was at 85 percent completion.

Lot 3, PK 41 to PK 46, EBMA –EBMA started work on this section of the road in October 2002 and as of the beginning of December work is over 90 percent completed. The technical acceptance will take place on December 17, 2002 and the provisional acceptance will occur in January. EBMA was able to complete this work without transporting heavy equipment over the badly corroded bridge at PK 41. The start of work along this road section was delayed due to the lack of progress by the GOM in repairing the bridges at PK 41 and 46.

b. Tertiary Roads, Fianarantsoa Province

**1. Ademaka – Manampatrana Road, RP Fa 4 (6 km.),
EGECORAM**

A provisional invoice has not been submitted for this work as of early December but work is estimated to be over 90 percent completed as of early December. The provisional acceptance will occur in January 2003.

**2. Bekatra – Lokomby – RN 12, RP 1102 F, (32 km.)
ARR**

As of early December the only work remaining to be completed is the repair of a wooden bridge. All work will be completed by the second week of December and the provisional acceptance will occur on December 18, 2002. This road was rehabilitated during the CAP project in 1997, however the road surface was in need of some light rehabilitation. Due to the economic potential of the area and the desire to protect previous USAID investments, the ReCap project decided to include this road in its tertiary road rehabilitation program. The table in Annex 1 shows the amount of work completed as of November 6, 2002.

c. Tertiary Roads, Ambatondrazaka/Imerimandroso region

All roadwork was completed on Lots 1, 2, 4 and 5 before the end of November and the provisional acceptances took place on December 5 and 6, 2002, with the participation of local authorities, AUP representatives, and USAID staff. Work on lots 1, 2, and 4 progressed well throughout the quarter, especially Lot 4, which was essentially completed by the end of October. Lots 2, 5 and 1 were completed during the first, second and third weeks of November respectively. Lot 3, subcontracted to Groupema, was reduced by 2 kilometers due to the slow progress of the firm. Tahina/ARR won the RFB for that work which was also accepted on December 6. Lot 6, which was subcontracted to EGEORAM, started slowly but was over 95 percent completed by December 7. The table below shows the contractual and the actual end dates of the work in Ambatondrazaka/Imerimandroso region.

Table 3: End dates of road projects in Ambatondrazaka/Imerimandroso

Road	No. of Kilometers	Firm	Contractual end date	Actual end date
Lot 1, Ankasina to Antendrondrano	11.4	Tahina	11/30/02	11/15/02
Lot 2, Ambohijanaharikely to Koloara	7.3	ARR	11/15/02	10/28/02
Lot 3, Ambavahadiromba to Antsahalemaka	13.5	Groupema	11/15/02	12/21/02
Lot 4, Ankazotsaravolo to Antanandava	11.4	EGECA	11/9/02	11/8/02
Lot 5, Tsarahonenana to Betsianjava	6.2	Tolotsoa	11/25/02	11/18/02
Lot 6, Andromba to Ambatomafana	13.8	EGECORAM	10/31/02	12/21/02



Figure 1: Lot 6, Imerimandroso, EGENORAM

The Ministry of Public Works asked the ReCap project to continue the rehabilitation of Lot 4 to Didy (an additional 28 kilometers). The President made the suggestion after being very impressed by the quality of the work along the first 11 km. that was rehabilitated by the project. Budgetary and time constraints made the additional rehabilitation work unfeasible.

d. *Port of Manakara*

EGECOT completed the repair of two warehouses at the Port of Manakara (Export 1 and Export 2) in October and the provisional acceptance took place on October 23 in the presence of a representative of the Ministry of Transport, the owner of the port facilities. The work consisted primarily of replacing and repairing the corrugated metal roofing and support structures, painting the interior and exterior walls, replacing defective doors and windows and installing new lighting fixtures.

EGECOT also won the second phase bids for the repair of the “Import 1” warehouse. Work will start in December and will be completed by the end of February 2003.

The Colas subcontract was signed on November 5 and work will be completed in five months. The laboratory tests for the soils of the support structure have been completed and the metal support beams have been ordered in Europe. They are scheduled to arrive in Tulear on January 15 and will be in Manakara by January 31, 2002. The Colas team will set up their worksite in Manakara in early January. The first phase of the work consists of demolishing the north pier structure (that is 3 meters wide by 100 meters long), then driving the metal supports (palplanches) in place of the defective piles. The third step would be to fill the structure with sand and debris from the old structure and finally building a new asphalt surface. Work will be nearly completed by the end of the next quarter.



Figure 2: Newly rehabilitated warehouses at Port of Manakara stocked with Litchis

e. *AUPs*

Final negotiations on the implementation of tolls on the RNT 14 were held with the Ministry of public works during the quarter and a convention was signed authorizing the AUPs to collect tolls along the RNT 14 in December. Toll collection will begin in January 2003. Public meetings were also held in all of the communes to inform the population of the tolls that will be put into place and to come to a consensus on the amount of money to be collected from each vehicle.

Toll collection began on November 19 2002 in the Sahasinaka region following the signature of a convention between the Provincial government and the ReCap project. The ‘Transfere de Gerance’ and “Transfere de Competence” also took place during the month of November during an official signing ceremony held in Sahasinaka on November 21. The AUP Union was also officially created and they took control of the management of the funds collected from the tolls and the rain barrier.

In the Ambatondrazaka region, a formal one-day training session was held at the end of October for all of the AUPs. The training covered the basic functioning of the AUPs including road maintenance, rain barriers and toll collection. The nineteen AUPs that were created also registered with the Provincial government giving them legal authorization to function as an association. Technical training on road maintenance will be held in January 2003. The training will last one week and will be given by ReCap engineers.

f. *Road/Bridges Engineer Consultancy*

Alain Dube arrived in Madagascar on October 2 for a two-week assignment advising the project on the progress of the work and on any actions that need to be taken to correct any shortcomings in the road construction contracts. His main

recommendations concerned environmental provisions, safety standards for the workers and administrative requirements for the Supervisory Engineers.

g. *USAID CRP evaluation*

A USAID team conducted an evaluation of the NRO Cyclone Recovery Program in October. While they were satisfied with the quality of the road construction work, they expressed concern over the sustainability of the AUPs and the limited expatriate engineering support that was provided over the course of the project.

5. Activities for the next quarter

The rehabilitation of the north wharf will continue along with the rehabilitation of one additional warehouse at the Port of Manakara. Technical and financial training sessions will be held with the AUPs during the months of January and February. Finally, project closeout will begin in January and the project office will close on April 15, 2003.

6. Expenses

Note that the figures for October and November are estimates due to the fact that we are submitting this quarterly report before the end of the quarter.

Table 4: Project Expenses by Line Item

Line Items	Budget	Previous Total	Oct-02	Nov-02 (est.)	Dec-02 (est.)	Total Expenses to Date (est.)	Remaining Budget
Work days Ordered	846,990	719,327	50,610	35,114	36,599	841,650	5,340
Material	4,297,394	2,369,152	285,400	445,305	455,414	3,555,271	742,123
General and Administrative	205,416	110,614	13,157	20,529	20,995	165,294	40,122
Total	5,349,800	3,199,093	349,167	500,948	513,007	4,562,215	787,585

Table 5: Construction Subcontracts

Date Signed	Firm	Title	Amount in FMG	Amount in US (6500 fmg /1)
19-Jun-01	LNBTP	Geo-Technical Study of the RNT 14	91,187,960	\$14,029
10-Aug-01	EBMA	Rehabilitation of the RNT 14 from PK 00 to PK 41	5,313,888,154	\$817,521
10-Aug-01	EGECORAM	Rehabilitation of the RNT 14 from PK 46 to PK 93	4,211,838,470	\$647,975
26-Aug-01	LNBTP	Geo-Technical Supervision of the RNT 14	338,661,400	\$52,102
15-Oct-01	TAHINA	Rehabilitation of the RP 1103 F from the RN 12 to Sahasinaka, PK 0 to PK 12+500	875,303,500	\$134,662
15-Oct-01	TOLOTSOA	Rehabilitation of the RP 1102 F from Sahasinaka, PK 0 to Bebaka, PK 26+500	1,543,483,116	\$237,459
15-Oct-01	ARR	Rehabilitation of the RP 1103 F from Bebaka, PK 26+500 to Bekatra, PK 44+000	1,266,896,200	\$194,907
26-Apr-02	EGECOT	Rehabilitation of two Warehousees at the Port of Manakara	561,952,875	\$86,454
29-Jul-02	Tahina	Rehabilitation of the Ankasina to Antendrondrano tertiary road, PK 0 to PK 11+400	838,277,000	\$128,966
29-Jul-02	ARR	Rehabilitation of the Ambohijanaharikely to Koloara tertiary road, PK 0 to PK 7+300	629,787,800	\$96,890
29-Jul-02	Groupema	Rehabilitation of the Ambavahadiromba to Antsahalemaka tertiary road, PK 0 to PK 13+500	930,205,805	\$143,109
29-Jul-02	EGECA	Rehabilitation of the Ankazotsaravolo to Antanandava tertiary road, PK 0 to PK 11+400	751,390,696	\$115,599
29-Jul-02	TOLOTSOA	Rehabilitation of the Tsarahonenana to Betsianjava tertiary road, PK 0 to PK 6+210	510,705,431	\$78,570
30-Jul-02	EGECORAM	Rehabilitation of the Andromba to Ambatomafana tertiary road, PK 0 to PK 13+820	916,258,991	\$140,963
21-Aug-02	EGECORAM	Rehabilitation of the RP 4 fa: Ademaka to Manapatrana, PK 0 to PK 6+000	383,707,876	\$59,032
9-Sep-02	ARR	Rehabilitation of the RP 1102 F from the RN 12 to Lokomby and Lokomby to Bekatra, PK 0 to PK 32+360	468,656,150	\$72,101
21-Sep-02	EBMA	Rehabilitation of the RNT 14 from PK 41 to PK 46	406,068,172	\$62,472
5-Nov-02	COLAS	Rehabilitation of the North Wharf at the Port of Manakara	2,300,120,363	\$353,865
		Total	22,338,389,959	\$3,436,675

Annex 1: Work Completion Tables

Work Completed, RNT 14, Section 1, EBMA, as of November 6, 2002

Description of Work	Budget	Total	Percent Completed
Worksite Installation	347,360,830	185,186,727	53
Earthwork	862,243,770	808,009,070	94
Drainage	1,121,725,701	852,605,186	76
Road Surface	2,239,366,679	2,460,755,287	110
Bridges/Causeways	91,190,216	5,946,601	7
Protection	588,529,295	502,813,137	85
Equipment	63,471,663	16,715,160	26
Total	5,313,888,154	4,832,031,168	91

Work Completed, RNT 14, Section 2, EGEORAM, as of October 2, 2002.

Description of Work	Budget	Total	Percent Completed
Worksite Installation	500,000,000	300,000,000	60
Earthwork	500,609,883	543,945,845	109
Drainage	1,270,673,640	879,340,620	69
Road Surface	897,282,815	1,132,117,637	126
Bridges/Causeways	129,725,310	47,766,302	37
Protection	650,346,420	489,844,606	75
Equipment	67,006,552	25,205,224	38
Total	4,015,644,620	3,418,220,235	85

Work Completed, RNT 14, Section 3, EBMA, as of October 12, 2002.

Description of Work	Budget	Total	Percent Completed
Worksite Installation	40,000,000	25,000,000	63
Earthwork	69,053,366	25,664,195	37
Drainage	54,142,543	8,233,315	15
Road Surface	177,567,982	78,910,147	44
Bridges/Causeways	27,591,437	0	0
Protection	30,711,427	38,548,299	126
Equipment	6,777,926	0	0
Total	405,844,681	176,355,956	43

Work Completed, RP 1102 F, ARR, as of November 6, 2002.

Description of Work	Budget	Total	Percent Completed
Worksite Installation	87,267,850	37,633,925	43
Earthwork	2,767,200	6,050,500	219
Drainage	34,454,500	52,625,000	153
Road Surface	149,063,500	98,682,100	66
Bridges/Causeways	192,954,700	27,981,750	15
Protection	2,148,400	5,436,000	253
Total	468,656,150	228,409,275	49