

**TECHNICAL ASSISTANCE TO THE
PUBLIC WORKS DEPARTMENT
EDF PROJECT # 9.ACP.VA.02 – PWD MAINTENANCE TRAINING PROJECT**

Site visit report to Tanna

26 – 29 July 2007

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1 Agenda.

Dates : 26 – 29 July 2007

Purpose: follow up of activities

- Day 1 : arrival at Tanna at 16.00
- day 2 : office meeting and field visit

- Day 3 : reporting & private visits
- Day 4 : take off at 13.00

Mission of Luc Grandjean

Days 3 & 4 : private visits.

2 Office work : meeting

Attendance :

Fred Gideon, Nixon, Willford (trainee), Luc Grandjean

2.1 On going contracts

After the surveys made in May, lots of routine maintenance works are in progress on Tanna. These works are mainly done by the communities, with Small Works Contracts. Routine maintenance works are grass cutting, bush clearing, clearing or renewal of ditches alongside the roads, cleaning of existing culverts and civil structures.

After the works, some old culverts or some features, are discovered : the "Bethel slab" is not a simple concrete slab, there are 7 culverts under the slab, etc.

Road section	Amounts	- comments -
A	1 594 571	
B	1 628 324	
C	2 728 175	
D	2 776 195	
E	2 617 154	
	3 709 039	Waisisi
	600 000	Volcano
	346 500	Lowaniau
	15 999 958	

Table 2.1.: Summary of recent Small Works Contracts.

A list a some contracts is joined in annex.

2.2 Matters discussed

- every contract charged to recurrent budget has received a LPO number, so the Operation Section is well aware of what's going on. List sould be available at PWD Head Office.
- Waisisi maintenance contract is said to be charged on PE3. Formal commitment from Project Imprest Administrator has to be checked.
- PE3 budget has to be spent before end of this year.

- Gabion baskets (750 galvanised units + 400 PVC units amounting VT 3.5 millions) are to be delivered by end September. Surveys and cost estimate have to be ready by this date, works contracts could be prepared so the tender procedure would end by early October.
- More SWC for routine maintenance can be issued and charged to PE3, if recurrent budget is not released. PE3 Tafea budget line could be increased by the Malampa budget line, Malampa Works Division does not seem to be able to survey for maintenance and to report accordingly.
- comments on the "Note on TAFEA Works Division progress reports, 15/06/2007" made by TA :
 - division's inventory is not updated, not to say "does not exist". Keeping inventories is the responsibility of the Head of Division, with assistance from his staff.
 - shipments : bill of lading, delivery slips, acknowledge receipt of, ... every shipment is an occasion for good loose or damage. When reporting is late, it could be too late for any claim. It wouldn't be a bad idea to formalise and speed up information exchange related to any shipment.
- Working with communities policy. From reports we can see that there are lots of matters of concern with involving or contracting with communities. There is a need for an evaluation and for a policy. Refer to note ¹ for more details.
- First comments on the application under development at PWD : database and web application. Explanations on the need to formalise the network definition : to identify nodes, to survey by "links" or sections between 2 nodes. ...

3 Field visits

3.1 Cornamas to Lenakel Coop

Although the Head of Division reported that erosion was fixed for good, the last heavy rain did erode the side road and the problem is back and will worsen.

This issue should be linked to a request made by the Tourism Council to give a better "urban" look to the market surroundings. Building kerbs, side walks, stone pitched or concrete ditches, improvement road pavement, protecting the road from sea water overflowing (putting rip rap boulders stones to demarcate the beach and the road, ... should be examined, surveyed and costed.

3.2 Ikwanpir and Bethel

It is amazing to see that the Bethel slab is not a slab. This feature was forgotten by everybody. Thus, the importance of routine maintenance and road inventories.

Water is now flowing through the culvet at Ikwanpir. It was a long time this did not happen. A

¹ "Note on TAFEA Works Division progress reports, 15/06/2007"

retaining wall (a dry stone wall could do) has to be put in place to consolidate the road track and for road users safety.

3.3 Section B

Even after tree pruning, grass cutting and ditches cleaning, there are still lots of problems on this road. By nature, the soil is very slippery. This road will be improved by the MCA project but as relief works, spreading sand or gravels on the most slippery sections would greatly help the population.

3.4 Section C

Most of this section is on ashes and very fertile soils. The road has been widened, tree pruned, ditches improved. Every heavy rain is making large scours. Frequent routine maintenance is compulsory there.

3.5 Volcano road

The road has been widened and the drainage improved. Nevertheless, the soil nature there, volcano ashes, does not allow any permanent improvement. After the last heavy rain, deep scours are back in the middle of the road. The community charging visitors (gate fee amounting VT 3000 per person – annual revenue estimated more than VT 12 millions) has the responsibility to keep this road in an acceptable condition. It has been demonstrated that everything can be done by hand, without any need for any large equipment.

The community should be sensitised to the road maintenance.

4 Annex

4.1 Contracts paid by recurrent budget

Community Names	Agree No =	Description /Observation	Amount	
			PAID	Distance
	RMT/01/07			
	RMT/02/07			
	RMT/03/07			
Dennis	RMT/04/07	Construct New soak pits, cut lead	91 000	
Bethel	RMT/05/07	Preparation for Gabbion, Clean Culvert	128 364	
Lawea	RMT/06/07	New soak pits, grass cutting	94 032	
Nariaken	RMT/07/07	Grass Cutting,Excavation Earth	38 700	
Isini	RMT/08/07	Grass Cutting,Excavation Earth	89 488	
Lounapkanuim	RMT/09/07	Grass Cutting,Excavation Earth	87 934	
Irunaip	RMT/T010/07	Grass Cutting,Excavation Earth	79 750	
Letaus	RMT/011/07	Bush clearance, work on soak pits	203 552	
Pukiamlanlan	RMT/012/07	Grass Cutting,Excavation Earth	131 488	
Ure	RMT/013/07	Grass Cutting,Excavation Earth & Prunig trees	158 512	
Imaka	RMT/014/07	Excavation earth work, pruning trees	111 048	

Community			Amount	
Names	Agree No =	Description /Observation	PAID	Distance
Imaelone	RMT/015/07	Grass cutting,Excavation earth work,Repair Bridge	167 392	
Imanaka	RMT/016/07	Grass cutting, Pruning trees, cleaning side drains	132 960	
White-Grass	RMT/017/07	Grass cutting, Pruning trees, cleaning side drains	80 350	
	RMT/018/07			
	RMT/019/07			
	RMT/020/07			
Menaken	RMT/021/07	Grass cutting,Bush Clearance & Excavation on	411 964	
Nwenalane	RMT/022/07	Grass cutting, Pruning trees, cleaning side drains	210 580	
Nemwanlane	RMT/023/07	Grass cutting ,Bush Clearance	307 100	
Nakoaraken	RMT/024/07	Grass cutting,Bush Clearance &cean open bloke culvert	492 240	
Namukany	RMT/025/07	Grass cutting ,Bush Clearance	97 440	
Loanialu	RMT/026/07	Routine maintenance	109 000	
Raimene Com	RMT/027/07	Grass cutting,Bush Clearance	287 730	1.19
Nasepmine	RMT/028/07	Routine maintenance	298 100	1.82
Manuapen	RMT/029/07	Grass cutting, Bush clearance , Excavation on side	344 924	2.32
Davids	RMT/030/07	Grass cutting, side drains, Pruning trees	233 586	1.99
Iqwarmanu	RMT/031/07	Grass cutting,Bush clearing	412 969	2.61
Immalumene	RMT/032/07	Grass cutting,Bush clearing	133 792	1
Ipkanian	RMT/033/07	Grass cutting, Bush clearance , Excavation on side	123 840	0.84
Lounasunan	RMT/034/07	Bush Clearing, side drains	272 198	1.78
Lounou	RMT/035/07	Bush Clearing, side drains	114 656	0.91
Kasarumine	RMT/036/07	Routine maintenance	144 536	1.4
	RMT/037/07			
	RMT/038/07			
	RMT/039/07			
Yarmamene	RMT/040/07	Grass cutting, Bush clearance , Excavation on side	337 520	1.2
Nalakwemene	RMT/041/07	Grass cutting,Bush Clearance & Pruning trees	149 000	0.7
Iakukok	RMT/042/07	Bush Cleararing& Pruning trees, Gabbion	88 300	0.8
Imapoul	RMT/043/07	Grass cutting, Bush clearance , Pruning trees	196 900	1.7
Yarasnurmut	RMT/044/07	Grass cutting,Bush clearing,cleaning side	197 516	1.9
Yakamnemene	RMT/045/07	Grass cutting,Bush clearing, Pruning trees	423 800	1.7
Tenekmene	RM/T046/07	Grass cutting, Bush clarence, Pruning trees	155 800	1.7
Yamramene	RMT/047	Grass cutting,Bush clearance, Pruning trees	99 304	0.6
Pinanakraene	RMT/048/07	Bush clearance, Pruning trees	133 808	0.96
Green Point	RMT/049/07	Bush clearing, Pruning tree, Clean Gabbion	206 840	0.7
Yasurmine	RMT/050/07	Grass cutting ,Pruning trees	239 500	0.83
Kunsurnanapo	RMT/051/07	Bush clearing,cutting Grass, Pruning trees	293 880	1.45
Nahapo	RM/T052/07	Grass Cutting , Pruning trees	94 986	1.59
Nahapo	RMT/53/07	Grass cutting, Pruning trees, cleaning side drains	155 168	0.83
Karis	RMT/054/07	Bush clearing, pruning trees	164 700	2.1
St.Pierre	RMT/055/07	Bush clearing,Pruning trees	187 980	1.96
Yeresnaurac	RMT/056/07	Bush clearing , Pruning trees	359 600	2.8
Kwamere	RMT/057/07	Grass Cutting , Pruning trees	170 250	1.5
Lapatua	RMT/058/07	Bush clearance, Pruning trees, Creek crossing	102 400	0.4
Neia Com	RMT/059/07	Pruning trees, Bush clearance	189 500	1.22
Iahao	RMT/060/07	Bush clearing , Pruning trees	175 500	0.4
Nawaru Com	RMT/061/07	Routine maintenance	34 940	0.24
St.John	RMT/062/07	Bush clearing, pruning trees	195 250	1.79

Community			Amount	
Names	Agree No =	Description /Observation	PAID	Distance
Imaki	RMT/063/07	Bush clearing,Pruning trees	239 430	3
Andrew	RMT/064/07	Bush clearing, Pruning trees	293 880	1.45
Ipkapen	RMT/65/07	Bush Clearance, pruning trees	507 597	4.5
Total Amount			10 982 574	53.88

4.2 Contracts paid by EU/MTP PE3

Date of Agree m	Commu nity Names	Agree No	Description /Observation	Amount Pay	Distance (Km)	Duration	Date Paid
22.02.07	Leneai Commu nity	01/07/Tan	Bush Clearance & Culvert	7 000		1 week	14.06.07
19.03.07	Leneai Commu nity	02/07/Tan	Bush Clearance & Inlet Outlet Erea	195 720		1 month	14.06.07
20.03.07	Lamangu aiti	03/07Tan	Bush Clearance & clerance Culvert	26 400		1 month	15.06.07
20.03.07	Lamangu aiti	04/07/Tan	Bush clearancearound intlet side drain	57 408		1 month	15.06.07
20.03.07	Nalau Commu nity	05/07/Tan	Bush Clearance Around Intlet & outlet side drain	165 156		1 month	15.06.07
21.03.07	Isini Commu nity	06/07/Tan	Bush Clearance Around Intlet & outlet side drain	124 600		1 month	14.06.07
8.05.07	Enwaker Commu nity	07/07/Tan	Grass Cutting & Drainage	54 400		1 moth	19.06.07
8.05.07	Lamanar uan Commu nity	08/07/Tan	Grass Cutting & Drainage	211 600		1 month	25.06.07
8.05.07	King Cross Commu nity	09/07/Tan	Grass Cutting & Drainage	162 096		1 month	15.06.07
21.05.07	Enumake l Commu nity	10/07/Tan	Bush cutting, Remove and Dipose of cutting Grass	600 000		1 month	18.07.07
1.06.07	Bethel Commu nity	11/07/Tan	Repair work &culvert	5 508		1 week	13.07.07

Date of Agreement	Community Names	Agree No	Description /Observation	Amount Pay	Distance (Km)	Duration	Date Paid
1.06.07	Nalau Communi Louanial u Communi	12/07/Tan	Routine Main on USP Road	167 800		1 month	22.06.07
6.07.07	ity	13/07/Tan 14/07/Tan 15/07/Tan 16/07/Tan 18/07/Tan	Clearance Fully Blocked Culvert	346 500			
26.06.07	Lopanta wa	019/07/Ta	Bush clearance , Excavation earth work side drains	104 740	0.67		
26.06.07	Loumai	019/07/Ta	Bush clearance,work on new drains with approp	112 550	1.38		
26.06.07	Loukaini	020/07/Ta	Bush clearance , Excavation earth work side drains	144 550	1.38		
26.06.07	Netau	021/07/Ta	Routine Maintenance	221 000	1.38		
26.06.07	Launima	022/07/Ta	Routime Maitnence	143 912	1.38		
26.06.07	Netau	023/07/Ta	Routine Maintenance	254 112	1.38		
			Total Amount	3 105 052	7.57		

4.3 Job description

4.3.1 Public Service Commission. Divisional Manager

7	DUTIES AND RESPONSIBILITIES
7.1	Preparation and successfully implementation of work programs.
7.2	To prepare cash activity plans and submits quarterly.
7.3	To authorize purchase of stores required.
7.4	To liaise with communities / contractors for small maintenance work.
7.5	Supervise and monitor work of contractors.
7.6	Send monthly report of the operation to Manager Operation or Director.
7.7	To carry out inspection on contracted works. Certify completed works.
7.8	To assist the Central Tender Board to carry out evaluation on depreciating plant and vehicle (Shefa)
7.9	To carry out inventory on PWD assets every year.
7.10	To carry out any other duties as required by the Director or the Director General.

7. : assets inventory

What are the assets ? What are the nominal value, present value ?

For a road, the nominal value is the value of a works contract to build the same road. Then, with traffic, time and weather, the road deteriorates and the value decreases. Routine maintenance is aimed to restore the value to the nominal value. Without maintenance, the value goes down, and in case of road closure, reaches 0.

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