

FINAL REPORT ON FLASH FLOODS

8th -16th January 2009

**Damages Sustained and Necessary Responses,
Rehabilitation and Reconstruction**



Office of the Prime Minister

17th February 2009



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y response and relief efforts, summarises assessments of damages sustained in the various sectors of the economy, and prioritises rehabilitation and reconstruction measures for the critical sectors which were affected by the flash floods from 8th to 16th January 2009. The report also highlights assistance requested from development partners for priority sectors and outlines the Cabinet endorsed Way Forward for timely, effective and coordinated implementation and monitoring of identified relief, rehabilitation and reconstruction measures.

- 1.2 The report is based on information received by the Disaster Management Committee (DISMAC) and assessments conducted by Ministries and Departments, Statutory Bodies, Private Sector and Civil Society.
- 1.3 Relevant government Ministries, non-government organisations and statutory authorities were consulted in the preparation of this report. The report has already been considered by the Development Sub-Committee (DSC) and the Cabinet.
- 1.4 The incidents of flooding caused by the heavy downpour between the 8th and 16th January 2009 are considered the worst ever in Fiji's history, worse than the floods caused by natural disasters of 1956, 1972 and 1999.
- 1.5 The Interim Prime Minister on 11th January 2009 declared a 30 day State of Natural Disaster for the Western parts of the country's main island of Viti Levu. The declaration was made in view of the widespread adverse effect of continuous rain brought in by the tropical depression and the difficulties of accessing adequate resources to respond effectively.
- 1.6 Curfews were immediately imposed in affected townships of Ba, Sigatoka and Nadi to prevent theft and safeguard lives, particularly those who could venture out during the night of the floods.
- 1.7 Eleven (11) lives were lost as a result of the flooding, homes and house contents were damaged or destroyed, infrastructure was damaged and crops ruined. Many livelihoods and life savings of those affected were destroyed.
- 1.8 Rations are distributed in two phases. The first included emergency relief supplies for people at evacuation centres which cost government \$108,326.43. This is in addition to assistance provided by the Fiji Red Cross and other non-government organisations. The second phase commenced on 23rd of January included providing rations to families affected by the floods. It is estimated that the costs for one-month's rations for all affected is \$3.8m. Government's family ration packs are based on family size and composition and include: rice, flour, dhal, milk, sugar, cooking oil, and canned fish.

emergency relief and rehabilitation from NGOs and individuals in the form of aid-in-relief supplies received include water tanks, water purification tablets, water containers, Oral Rehydration Salt, blankets, soap, antibiotics, vector disinfectants and sleeping mats. Some development partners have pledged further assistance.

- 1.10 The total value of damages sustained is currently estimated at \$112.99m. The Western Division was most affected with costs estimated at \$81.28m followed by the central division at \$15.05m and the northern division at \$12.35m.¹ Whilst the road, water and sewerage and agriculture sectors sustained substantial damages, the education and health sectors were also affected.
- 1.11 Businesses in Nadi and Ba suffered large losses to their stock and properties. Losses in Nadi alone are estimated at \$200m. Losses to businesses in other centres have also been substantial. None of the hotels suffered any damages as a result of the flooding; however, infrastructure and utility repairs are necessary. According to the Fiji Sugar Corporation (FSC), loss of cane crop is estimated at 68,960 tons worth \$10.9m. Some farms remained water logged for several days and this has resulted in destruction of crops which will require replanting.
- 1.12 The cost of rehabilitation in major sectors, including roads, water and sewerage, agriculture, education, health, housing, sugar, telecommunication and electricity is approximately \$83.93m. Rehabilitation for the commercial sector is excluded from this estimate; however, they have requested government for various concessions.
- 1.13 Government is seeking assistance of \$73.27m for rehabilitation works. Approximately \$10m of the total cost of rehabilitation required has been undertaken by Ministries and Statutory Bodies using government finance and assistance by some of our development partners.
- 1.14 To ensure the timely and cost effective rehabilitation, a coordinated approach is intended by the government for all the stakeholders vis-à-vis government, private sector, civil society and development partners.
- 1.15 In the first phase of relief and rehabilitation, Ministries have already used resources from their 2009 budget allocation for rehabilitation of roads, water and sewerage infrastructure, schools, health and nursing centres and agriculture.
- 1.16 Government is also considering some external loan financing, particularly through our bilateral and multi lateral development partners, such as the Asian Development Bank and the World Bank.

¹ A further sum of \$4.3 million for damages to utilities has not been apportioned divisionally.

- Ministry of Primary Industries is to prioritise agricultural rehabilitation programs as it affects our food security. The initiatives of supplying planting material and other agro inputs should be continued until the sector is fully rehabilitated. A drainage assessment should also form part of the crop rehabilitation initiative as many farms suffer from poor drainage that does not allow the rainwater to effectively flow away from the farms. Some assistance has been received from the SPC for planting materials.
- 1.17.2 **Commerce:** Government will consider measures to assist businesses in the affected areas. Some requests have already been received from the respective Chambers of Commerce.
 - 1.17.3 **Insurance:** The government intends to review the insurance industry including its legislations and policies to ensure that the industry becomes investor friendly and supports developments in the country.
 - 1.17.4 **Tourism:** Visitor arrival numbers have declined as a result of the recent floods. The industry is a significant contributor to employment and economic activity. Tourism related areas have been excluded from the declared disaster zones following assurance from relevant agencies that the respective areas have been cleared from the effects of the floods. Tourism Fiji, Air Pacific and the Fiji Hotel Association are jointly developing a promotional program as an immediate measure for the industry to recover from declining visitor arrivals.
 - 1.17.5 **Distribution of Food Ration:** Government intends to coordinate with local and international NGOs for the distribution of food rations and education assistance to students so that recipients do not benefit more than once.
 - 1.17.6 **Public Awareness on relief and rehabilitation:** Messages will be relayed to the public that Government will direct efforts towards rehabilitating and reconstructing with the assistance of development partners; however, individual efforts are also necessary and important.
 - 1.17.7 **Housing:** As a result of the flash floods, 164 private dwellings have been completely damaged in the Western Division. It is important that Government, through the Ministry of Housing, consider options to assist those with damaged dwellings.
 - 1.17.8 **Disaster Awareness and Preparedness:** Due to the number of casualties occurring during disasters, there is an urgent need to develop disaster awareness at community, district, divisional and national level. The awareness programs are to be managed by DISMAC.

A majority of casual workers would have businesses affected by the floods attempt to ministries will consider employment potential reconstruction work, such as cleaning crews, road construction workers, pipe laying and dredging workers. This is to assist the recently unemployed in the affected areas.

1.17.10 **Drainage:** The extensive flooding caused by heavy rainfall is an indication that our waterways are not able to drain out the excess water. Drainage is a priority concern for government to ensure that similar levels of damage are avoided in future. Several technical assessments have been conducted subsequent to floods in the past. The recommendations of such assessment reports were not implemented as a result of lack of funding. Assistance in the implementation of the recommendations is needed.

1.18 In view of the urgency to rehabilitate and rebuild, a Taskforce comprising of Permanent Secretaries has been formed to oversee the rehabilitation and rebuilding work. A draft Terms of Reference for the taskforce is attached as **Annex 8** of this paper. The Taskforce comprises of Permanent Secretaries of:

- Prime Minister's Office (Chair);
- National Planning;
- Finance;
- Agriculture;
- Works;
- Provincial Development;
- Public Utilities;
- Local Government, Urban Development & Housing; and
- Health

ed by flash floods that affected the Western, Northern and parts of the Central Divisions from the 8th of January to the 15th of January following a Tropical Depression to the west of the Fiji Group. It focuses on key elements in the various stages of disaster management that are normally activated consequent to the flooding and landslides that prevailed over most parts of the country following the Tropical Depression.

2.2 Key areas covered in the report include:

- (i) a summary of events prior to and during the floods;
- (ii) emergency responses and relief work undertaken;
- (iii) update on Prime Ministers Relief Fund;
- (iv) donor support and commitments for emergency relief and rehabilitation;
- (v) an assessment of damages to key sections of the economy;
- (vi) necessary rehabilitation and reconstruction; and
- (vii) a proposed way forward.

2.3 The report is based on information received by the Disaster Management Committee (DISMAC) and assessments conducted by Ministries and Departments, Private Sector and Civil Society. The costs of damages and rehabilitation in the various sectors have been estimated by the relevant Ministries/Departments, Statutory Bodies, Private Sector and Civil Society.

2.4 Subsequent to consultations with DISMAC Taskforce and line Ministries, this report has also been endorsed by the Development Sub-Committee and Cabinet.

3.0 Situation Reports 07th - 29th January 2009

3.1 Flash floods affected many areas throughout Fiji from the 8th to 16th January 2009. Areas severely affected are the Sigatoka valley, Nadi town and surrounding areas, Ba, Rakiraki, Nausori, Tailevu North, Rewa and parts of Vanua Levu. The events occurring during the floods are as follows:

- 07 January 09; warnings of heavy rain by the meteorological office and the general public subsequently advised to move to higher grounds before flood waters rose
- 08 January 09; heavy rain commenced and Nadi flooded first, followed by Ba and Sigatoka
- 09 January 09; tropical depression located 420 kms west-southwest of Nadi resulting in heavy rains throughout Fiji. DISMAC was activated
- 10 January 09; rain subsided and initial floods receded
- 11 January 09; heavy rains continued. State of Natural Disaster was declared for the whole of western division by the Prime Minister, effective 11 January

108 evacuation centres set up in the three

distance to evacuees and tourists. Food rations
evacuation centres.

- 3.2 On 29 January 2009, tropical cyclone Hettie also caused heavy rain in the Central and Eastern Divisions with some reports of flooding in Navua and Tamavua.

4.0 Declaration of State of Natural Disaster

- 4.1 The Interim Prime Minister on 11th January 2009 declared a 30 day State of Natural Disaster for the western part of the country's main island of Viti Levu. Tourism areas were subsequently excluded from the disaster zone subject to clearance from relevant authorities such as the Ministry of Health.
- 4.2 The declaration was made in view of the widespread adverse effects of continuous rain brought in by the tropical depression to the division and the difficulties of accessing adequate resources to respond effectively.
- 4.3 Three towns within the division, Sigatoka, Nadi and Ba, were under water following torrential rain, and 12 hour curfews were imposed to safeguard properties in the township from criminal activities.

5.0 Activation of DISMAC Operations

- 5.1 Upon receipt of information from the Nadi Meteorological Office, the National Emergency Operation Centre as well as the Divisional Operations Centres were activated since 7th of January 2009. Public advisories in all the three languages were issued since the 7th of January 2009.
- 5.2 The DISMAC Operation Centres coordinated and monitored the following phases of operations as outlined in the Disaster Manual:
- Establishment of Evacuation Centres;
 - Evacuation and Rescue of flood victims;
 - Immediate supply of emergency rations; and
 - Oversee the return of evacuees from the Evacuation Centres.
- 5.3 A national taskforce under the chairmanship of the Permanent Secretary of Provisional Development was activated by the Prime Minister. Memberships of the taskforce include relevant Government agencies, public utilities and the civil

co-ordinate damage assessment information including this report.

Subsequent to the flood, the District Emergency Operation Centers, members of the public and the media immediately after the flood. The surveys provided more detailed information about the nature and scope of the disaster and the status of the affected people and formed the basis for the determination of relief and rehabilitation programme such as provision of food, temporary shelters to those affected and the determination of the infrastructure and agriculture rehabilitation programme that will follow.

6.0 Relief Operations

- 6.1 Evacuation centres were activated from 8th of January following flooding in Western Division. The following facilities and buildings were utilised as evacuation centres: Village Community halls, School Buildings, Government Offices, Red Cross Centres and Churches. At the height of the floods on 16th January 2009 there were total of 169 evacuation centres catering for 11458 peoples (**Table 1**). As at 23rd January 2009 the total number of evacuation centres has reduced to 27, catering for 1,191 people.

Table 1 Number of Centers and Evacuees as at 14th – 23rd January 2009

Centres	14/01/09	15/01/09	16/01/09	23/01/09
Northern	9	10	14	0
Western	64	74	108	20
Central	46	47	47	7
Total	119	131	169	27
Evacuees				
Northern	452	675	866	0
Western	5666	6458	7885	945
Central	2374	2658	2707	246
Total	8492	9791	11458	1,191

- 6.2 On 30th January 2009, an additional evacuation centre in the central division was opened with 101 people taking shelter as Navua was flooded.

7.0 Population Directly Affected by Floods

by Flood

DIVISION	VILLAGES	H/HOLDS	ADULTS	CHILDREN	TOTAL
CENTRAL	137	4536	16991	13676	31,080
WESTERN	711	23211	71333	44725	116,058
NORTHERN	-	-	-	-	-
TOTAL	848	27747	88324	58401	146725

7.2 There were a total of 11 casualties (Table 3). In order to reduce casualties occurring in future disasters, there is a need for greater disaster awareness and preparedness at the community, district, divisional and national level.

Table 3 Casualties as at 23rd January 2009-01-26

Divisions	Number
Western	7
Central	3
Northern	1
Missing	0
Total	11

8.0 Relief Ration Arrangements

8.1 Rations are distributed in two phases. The first, which commenced on 8th January 2009, included emergency relief supplies for people at evacuation centres. Emergency rations cost Government \$108,326.43 since there was considerable NGO assistance provided. The second phase, which commenced on 23rd January 2009, includes rations to families affected by the floods.

8.2 Ration distributions are being undertaken by numerous non-governmental organisations and social groups such as the Fiji Red Cross Society, Good Samaritans, Ramakrishna Mission, LDS Church, Hare Krishna Society, Rotary Clubs and the Fiji Sevashram Sangha.

8.3 The estimated cost to Government for 1 month of rations for all households affected is in the vicinity of \$3.8m. This estimate is based on the total amount already spent in the distribution of rations in the Central Division and the Yasawa Group, which currently stands at \$806,000. Government's ration packs are based on family size and include:

- rice
- flour



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- canned fish

- 8.4 The rations are targeted at families affected and the need of recipients will be reviewed before the second distribution commences. It is expected that rations will be distributed, at the most, for 3 months and according to the needs of affected families.
- 8.5 The Fiji Red Cross Society which has been a major recipient of donations undertook relief works costing \$397,965.75. \$313,755 is the cost of previously stocked items and a further \$84,211.25 was spent during the relief works. To date, the Society has spent a further sum of \$171,776.00 to replenish their stocks. The society also distributed 15,600L of bottled Fiji Water. A portable water pump which NZAID bought for use at an evacuation centre in Sigatoka (worth approx. FJ\$8,000) is to be retained by Fiji Red Cross as NZAID took it out of the \$100,000 pledge. Fiji Gas also donated 49 Cooking gas stoves (single burner) and 45 new cylinders for distribution by the society.
- 8.6 Initial relief packs by the Fiji Red Cross Society included, blankets, towels, matches, sanitary items and mini first-aid kit. Secondary relief included tarpaulins, cooking utensils, stoves and fuel, and water containers.

9.0 Prime Ministers Relief Fund

- 9.1 Section 16 of the Natural Disaster Management Act (NDMA) provides for the establishment of a fund for all phases of disaster management. The fund is named National Disaster Relief and Rehabilitation Fund (NDRRF) and the Prime Minister as the trustee establishes and maintains this fund.
- 9.2 To date the total amount in the fund is about \$5.0m. Prior to the flood there was \$3.0m in the account, an additional \$2.0m has been received through contribution from both our development partners and local communities. The purpose of this fund is to assist government with emergency relief and rehabilitation in key sectors. Due to the extent of damages in the education sector, a fair share of this fund be directed to help school children to attend school through the purchase of text books and other necessary educational materials.
- 9.3 The Save the Children's Fund had been given \$300,000 and the breakdown of funding would depend on the needs of the Education Ministry. This fund is to assist children's education for the whole year.

Development Partners, Private Sector

- 10.1 Assistance has been received from our many development partners, local non-government organisations, businesses and individuals in the form of cash grants and aid-in-kind. Aid-in-kind include water tanks, water purification tablets, water containers, Oral Re-hydration Salt (ORS), blankets, soap, antibiotics, vector disinfectants, sleeping mats and emergency food.
- 10.2 **Table 4** reflects the offers of assistance in cash and in kind by our international development partners. Out of the total estimated assistance of \$5.65m, approximately \$3.6m is in kind and \$1.99m as cash grant. **Annex 1** provides further details of assistance by international and local donors.

Table 4: Development Partners' Assistance

Donor	In Kind (\$000)	Cash Grant (\$000)	Total (\$000)
USAid	US50		US50
China	-	50	50
Tonga	-	100	100
AusAid	2,736	383	3,119
NZAid	600	-	600
UNDP	US100	-	US100
Korea	90	-	90
Tuvalu		12,238	12,238
India		185	185
Papua New Guinea		1,000	1,000
Total	\$3,651	\$1,994.238	F\$5,645.238 (Est.)

11.0 Damage Assessment

- 11.1 **Table 5** below provides a summary of the damages sustained within sectors and by divisions. Further details and related costs are presented in **Annexes 2-6**. The total value of damages sustained is estimated at \$112.97.08m. The Western division was most affected, with costs estimated at \$81.3m, followed by the Central division at \$15.05m and the Northern division at \$12.35m.

Table 5 – Summary of Flood Damage

Sector	Central/Eastern	Western	Northern	Total
Roads	7,506,620	15,173,422	5,771,260	28,451,302
Water & Sewerage	740,000	6,950,000	3,530,000	11,220,000
Crops	3,031,746	12,370,653	565,647	15,968,046
Livestock	1,680,201	2,280,316	35,282	3,995,799
Drainage	1,607,723	15,863,789	1,994,500	19,466,012
Education	138,000	915,960	420,000	1,473,960
Health	350,000	130,000	35,000	515,000
Housing		3,000,000		3,000,000
Sugar		24,600,000*		24,600,000
Telecommunications				1,300,000
Electricity				3,000,000
Total	15,054,290	81,284,140	12,351,689	112,990,119

* This is the latest available estimate; however, assessments are currently being undertaken by Fiji Sugar Cane Growers Council and Fiji Sugar Corporation

National Road Infrastructure

- 11.2 The recent floods have made roads in the affected areas much worse. The national road infrastructure in all divisions was affected by high rainfall and flooding. Damages to roads and bridges included washout of approaches to culverts and bridge, landslides, gravel road washouts and road slips, estimated to cost some \$28.5m.
- 11.3 Damages in the central and eastern divisions are currently estimated at \$7.5m, which require clearing of drains, re-gravelling, re-construction on road slips, clearing landslide sections and general restoration works such as patching of pothole.
- 11.4 It is estimated that repairs to road infrastructure in the western division will cost around \$15.2m which require clearing and backfilling of irish and culvert crossings, laying culverts and constructing headwalls, re-gravelling and re-sheeting surfaces.
- 11.5 Similar damages are sustained in the northern division and repairs are expected to cost approximately \$5.8m.
- 11.6 Details of repairs necessary are presented as **Annex 2**.

- reticulation system is estimated at \$11.22m. Most of the most damages in Nadi, Ba and Sigatoka, including for rural water supply systems in these areas. Damages include major pipeline, washed away sections of access roads to dams, reservoirs and pump stations, damages to buildings and amenities (including office accessories, stores and materials). In Sigatoka, estimates also account for the repair/restoration of two water mains damaged and cut off following collapse of a section of the old Sigatoka Bridge. For Ba, damages are to mains for Nadrou Rising and Vaqia inlet damaged by landslide at Tabaiya.
- 11.8 Damages to sewerage systems in Nadi, Lautoka, Sigatoka, and Ba comprise of damaged pipeline, damaged pump station switchboards (purchase and installation), damaged electrical components, bailing of pump stations and damage to office building. The sewerage pipeline on the old Sigatoka bridge is yet to be re-aligned as supplies are being awaited.
- 11.9 The Northern Division sustained damages are estimated at \$3.53m. Most of the damages in the north were experienced within Labasa, Savusavu and Nabouwalu areas. Damages include those to pipeline and intake/dams. Apart from these main areas, minor damages affected rural locations such as Vunivau in Bua, Dreketi, Seaqqa, Vunimanuca, Qarawalu, Naselesele, Waiyevo and Taganikula. Costs involved for these areas include repair works to pumping main line repair works to distribution line and borehole house which was submerged, clearing of landslide, drainage upgrading works, upgrade access road and drainage and backfilling of pipeline trench as washed away by heavy rain.
- 11.10 Repair works for sewerage systems in the northern division include repairs to pumps and reticulation system, treatment plant and office buildings.
- 11.11 The Central Eastern Division sustained \$0.74m worth of damages. Damages in this division include damages to intake, access road and pipelines in the Rewa delta and Levuka. Further details of damages sustained by water and sewerage infrastructure are contained in **Annex 3**.

Crops

- 11.12 Damages to crops, other than sugar, have been substantial between the Sigatoka Valley and the Northern Coast of Viti Levu. Preliminary reports from the Ministry of Primary Industries indicate that 70 percent of pawpaw orchards, a source of export growth, were destroyed. Dalo and cassava plantations were destroyed, while vegetable and pulses would also require re-planting. From the surveys undertaken, estimated areas of 1,792ha (or 62% of the total farming area in the affected region) have been adversely affected, with an estimated value of damages at \$15.97m.

ices due to a lack of supply and prices are cultivated areas commence production. This food.

Livestock

- 11.14 Damages to the livestock sector is estimated at \$4.00m. Dairy production will be affected as a result of pasture losses and damages to infrastructure to almost 75 percent of the total dairy farms. Feed supplements are a cheap option until pasture is restored. Immediate relief through supplementary feed supplied through Rewa Cooperative Dairy Company Limited (RCDCL) cost \$0.04m.
- 11.15 Small holder chicken farmers suffered significant damage in the Western Division. The practice of importing day old chicks and fertilised eggs will result in quick recovery of poultry production.

Drainage

- 11.16 The cost of damages to the drainage systems nation-wide is estimated around \$19.47m. In the Western Division repairs are necessary for drainage systems and have been estimated at \$15.86m. Seawalls were breached in Lautoka and Ba, floodgates and flaps were damaged in Lautoka, Ba and Rakiraki, the Narewa bank protection work in Nadi was washed away with major damages to drainage schemes throughout the Division.
- 11.17 Damages to drainage schemes in the central division is expected to cost \$1.61m. In the Northern Division, reports indicate that land drainage and water-shed management is expected to cost \$2.0.

11.18 Details of damages to crops, livestock, and drainage are contained in **Annex 4**.

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Education

- 11.19 The total cost of damages sustained in flood affected schools is currently estimated at \$1.47m. This estimate is based on three divisions of Western Division (\$0.92m), Central Division (\$0.14m), and Northern Division (\$0.42m).
- 11.20 The following table shows the percentage of total schools that were affected in the Western, Northern and Central Division.

Table 6 – Proportion of schools subject to flood damage

Division	Primary Schools	School Roll	Secondary Schools	School Roll
Western	11.79	6,743	18.52	5,985
Northern	8.48	3,324	11.76	2,351
Central	2.04	451	1.59	175
Total	22.31%	10,518	31.87%	8,511

cluded damages to classroom blocks, teachers' school gardens, furniture, books, and teaching materials. Details of damages sustained by schools in the Western Division are contained in **Annex 5**.

- 11.22 Apart from damages to schools, many school children lost their belongings or their student requirements were damaged during the flood. These students have been assisted in various forms.
- 11.23 The EU/ECHO, UNICEF, Save the Children Fund and Government have targeted assistance to affected students through schools by providing school packs, travel assistance and a possible feeding program.

Health

- 11.24 The Ministry of Health currently estimates that the necessary repairs to infrastructure will cost approximately \$0.52m. In the Western Division 3 health centres and a nursing station were flooded. A retaining wall for the Lautoka dental clinic needs to be rebuilt. Costs for the Western Division are estimated at \$0.13m.
- 11.25 Staff quarters for the Vunidawa hospital and the Lutu nursing station were flooded in the Central/Eastern Divisions with damages estimated at \$350,000. There is also a need to relocate the Lutu nursing Station. Repairs in the Northern Division are estimated at \$35,000, specifically for the kitchen and toilets that were flooded at Bagasau nursing station and damages to communications equipment. Details of damages sustained by health infrastructure are contained in **Annex 6**.

Housing

- 11.26 It is estimated that the damage of residential housing amounted to F\$3m. These include \$1.28m for completely damaged homes and F\$1.8m for partly damaged ones in the Western Division.
- 11.27 A total of 164 homes (89 wooden, 14 concrete and 61 corrugated) were completely damaged. The Office of Commissioner Western is currently compiling information on the partly damaged homes. Details of houses that were damaged in the Western Division are contained in **Annex 7**.

Sugar Industry

- 11.28 According to the Fiji Sugar Corporation (FSC), loss of cane crop is estimated at 68,960 tons worth \$10.9m. Some farms remained water logged for several days and this resulted in destruction of the crops which require replanting.
- 11.29 The previous season's crops have just been harvested while newly planted and ratoon crops would have been fertilised. Most of the cane fields were washed out and require re-application of fertiliser and the re-planting of some areas. Some farms require the clearing of debris piled up by the flood waters.

as been in the Western Division, particularly
Sigatoka. Loss of crops is negligible in the

- 11.31 The Rarawai mill of Fiji Sugar Corporation has suffered significant damage. Labasa and Penang mills had minor damages. There are also numerous incidents of damage to railway bridges, tramlines and bridge approaches. The cost is estimated at \$6.7m.
- 11.32 Repairs to the Sigatoka Tramline Bridge, part of which collapsed, are estimated to cost \$7.0m. It would be uneconomical to repair the bridge given low cane production from the Olosara Kavanagasau areas. Prior to the collapse of the bridge, FSC had proposed to close the affected tramline.

Telecommunications

- 11.33 Damages estimated by Telecom Fiji amount to \$1.3m with most of the damages sustained by the cable data network and minor damages to buildings and site access roads. Telecommunication services have been fully restored.

Electricity

- 11.34 Electricity services to flood affected areas have been restored. All flooded homes were required to be inspected by certified electricians prior to reconnection for safety reasons. Damages sustained by the FEA network and sub-stations are expected to cost \$3.0m.

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Tourism

- 11.36 None of the hotels suffered any damages as a result of the flooding; however, infrastructure and utility repairs are necessary.

Commerce

- 11.37 Businesses in Nadi and Ba suffered large losses to their stock and properties. Losses in Nadi are estimated at \$200m. Losses to businesses in other centres have also been substantial.

struction

estimated rehabilitation costs.

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Table 7 – Summary of Rehabilitation and Reconstruction requirements

Sector	Cost	Requirements
Roads	\$28.45m	Washed out approaches to culverts and bridges, landslides and re-surfacing of sealed and gravelled roads
Water & Sewerage	\$11.22m	Repairs to pipelines, access roads, electrical components, buildings and mains in Sigatoka
Crops	\$0.65m	Planting materials, other agro inputs, infrastructure
Livestock	\$2.39m	Supplementary feeds, pasture rehabilitation, drugs and farm infrastructure
Drainage	\$19.63m	Seawalls, floodgates, flood flaps, bank protection works and general maintenance
Education	\$1.47m	School building repairs, gardens, furniture, teaching material and equipment, books
Health	\$0.67m	Retaining wall, relocation of Lutu nursing station, maintenance of flooded buildings, repairs to communication equipment
Housing	\$3.0m	Rebuilding Private Dwellings
Sugar Cane	\$5.45m	50 percent of the cost of damage to cane crop estimated by FSC
FSC	\$6.70m	Damaged Rarawai mill and cane carting infrastructure
Telecom	\$1.3m	Repairs to network
Electricity	\$3.0m	Repairs to network and sub-stations
Commerce	-----	Chambers of Commerce of affected centres to advise of details of individual business losses
Total Cost	\$83.93m	

Roads

12.2 Immediate rehabilitation and reconstruction is necessary on the transport infrastructure throughout the country. Most roads are open to traffic, while PWD workers are working to open up the remaining roads. Immediate works include temporary measures to re-open roads to all traffic. Some areas remain inaccessible by road for relief work as crossings have been washed away. Rehabilitation and reconstruction works are expected to cost \$28.45m.



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...e repaired with assistance from Highway
...s provided equipment and workers to assist
...d city councils continue with repairs to roads

Water and Sewerage

12.4 Rehabilitation to the water reticulation system is estimated at \$11.22m. Piped water reticulation is currently expected to be 70 percent restored for Ba, 90 percent for Sigatoka and 80 percent for Nadi. All water reticulation systems are expected to be restored later this month. Major damage to the sewerage reticulation system in Sigatoka requires pipes to be imported to divert the pipeline utilising the Melrose Bridge. The cost estimates include operating costs such as allowances and overtime pay, and wages for additional workmen engaged during storm period and the restoration stage.

Crops

12.5 Rehabilitation for crops is estimated to cost \$0.65m. This includes provision of planting material and other agricultural inputs such as fertilisers. Of great concern is ensuring food security and the prices of locally produced food items, which increased as a result of the damages experienced. The Ministry of Primary Industries is working with farmers to supply planting material such as, kumala cuttings and dalo suckers from unaffected areas along with vegetable seeds and seedlings.

Livestock

12.6 Livestock rehabilitation requires the re-establishment of pastures and disease control through the use of drenches and vaccination. Costs are currently estimated at \$2.39m. The required drugs are currently available and supplementary feed is being distributed through the Rewa Cooperative Dairy Company Limited (RCDCL).

Drainage

12.7 Drainage rehabilitation is expected to cost \$19.63m. This will be necessary to alleviate possible damage from heavy rainfall in future. The dredging of major waterways is necessary as well. Repairs to the drainage network and sea and river control works also need to be undertaken. There is one offer by Carpenters (Fiji) Limited to dredge the Nadi river.

Education

12.8 The Ministry of Education will coordinate with school committees on the necessary repairs required. Currently, rehabilitation and reconstruction costs are estimated at \$1.47m. The Ministry of Education has brought forward the payment of tuition fee grants to affected schools based on their school roll in 2008. A significant amount of donor assistance is targeted in this sector.

00 for rehabilitating its medical facilities and homes need to be cleared of debris and silt, and have to be undertaken on a continuing basis.

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The Vector Control program has already commenced with World Health Organisation assistance.

Housing

12.10 Assistance needs to be provided to individuals whose homes have been damaged in the Western Division. USAid has offered to fund housing rehabilitation through Habitat for Humanity ó Fiji.

Sugar Industry

12.11 Efforts will need to be coordinated between the relevant agencies in order to ensure that there is an adequate supply of fertilizer to the cane farms affected. Financial assistance is likely to be needed to ensure that all farmers are able to cover these additional costs. Cost of rehabilitation, which was not provided by FSC, is estimated at 50 percent of the damage, at \$5.45m.

12.12 FSC may require assistance from Government in ensuring that all necessary repairs are made to the Rarawai mill before the start of the 2009 crushing season. Equally, the damage to the cane railway will need to be addressed. Rehabilitation and reconstruction costs are estimated at \$6.70m.

Telecommunications

12.13 Telecom Fiji Limited has restored most of their network. Some assistance may be required in terms of clearing access roads.

Electricity

12.14 The Fiji Electricity Authority has restored their substations and network. Government assistance may be required in repairing access roads to major electricity infrastructure.

Tourism

12.15 Continued efforts to restore the water supply to The Fijian Hotel are being undertaken.

Commerce

12.16 To be coordinated through local Chambers of Commerce.

13.0 Rehabilitation and Reconstruction for Donor

Consideration

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13.1 Government is seeking assistance of \$73.27m for rehabilitation works. Approximately \$10m of the total cost of rehabilitation required has already been

atory Bodies using government finance and nt partners.

Instruction for Donor Consideration

Sector	Cost	Requirements
Roads	\$28.45m	Washed out approaches to culverts and bridges, landslides and re-surfacing of sealed and gravelled roads
Water & Sewerage	\$11.22m	Repairs to pipelines, access roads, electrical components, buildings and mains in Sigatoka
Drainage	\$17.60m	Rive bank protection, watershed-check dam and river dredging.
Education	\$0.18m	School building repairs, gardens, furniture, teaching material and equipment, books
Health	\$0.67m	Retaining wall, relocation of Lutu nursing station, maintenance of flooded buildings, repairs to communication equipment
Housing	\$3.00m	Rebuilding Private Dwellings
Sugar Cane	\$5.45m	50 percent of the cost of damage to cane crop estimated by FSC
FSC	\$6.70m	Damaged Rarawai mill and cane carting infrastructure
Total Cost	\$73.27m	

- 13.2 In the education sector, the European Union and AusAID are assisting schools that have been affected by floods through provision of stationery, books and repair of facilities.
- 13.3 The major sectors in which assistance is required are roads (\$28.45m), water (\$11.22m), and drainage (\$17.6m), education (\$0.11m), health (\$0.64m), housing (\$3.0m), FSC (\$6.70m). In addition, sugar cane plantation rehabilitation in the western division requires around \$5.45m.
- 13.4 Furthermore, technical studies subsequent to past floods have recommended various strategies to mitigate effects of floods on people living in low-lying areas. Assistance is also sought from our development partners in the re-alignment/diversion of the Nadi River, the Ba creek and other relevant mitigating measures.
- 13.5 The rehabilitation works for donor consideration are highlighted below and details are contained in **Annexes 2-7**.

works are expected to cost \$28.45m. Repair works have to be carried out immediately on affected areas which requires significant amount of physical and financial resources to restore damages to road and bridge infrastructures to render safety to the travelling public.

- 13.7 Assistance is requested to reconstruct or repair gravel and culvert washouts on all unsealed roads, clear blocked drainage, repair extended potholes on major sealed roads, road side slip, various landslides, fallen trees and damaged irish crossings.

Water & Sewerage

- 13.8 For urban systems, the reconstruction work will involve repairing of damaged pipelines, intake structure systems, access roads, reservoirs, boreholes, pump stations and rehabilitation of buried water meters. Areas that were affected most are Nadi Water and Sewerage Scheme, Ba Water Supply, Labasa Water and Sewerage Scheme, Vaturu Dam and Nabouwalu Water Supply.
- 13.9 For rural water supply, damages were mainly to pipelines, intake structure systems and access roads. Areas affected most were mainly Western and Northern Division. Approximate cost of rehabilitation for rural water supply is around \$2m.

Drainage

- 13.10 The rehabilitation works required to improve the drainage systems include River bank Protection, Watershed Check Dams, and River Dredging.

River Bank Protection: Villages, settlements, communities, and townships located along the major rivers are susceptible to the threat of river bank erosion following the aftermath of flooding. Properties, homes, cultural land and sites of heritage value have been washed away due to river bank erosion from the torrential river flows. The rehabilitation work required include river bank protection to retain and preserve the existing land through civil engineering works comprising of reno-matting, geotextile and rock armouring to protect areas of high risk in the Nadi, Labasa, Ba and Sigatoka Rivers.

Watershed – Check Dams: The construction of check dams in the watersheds aims to address the problems of flooding through regulating flood flow in the main tributaries of the major river system in the Nadi, Ba and Labasa Watersheds. The check dams will be located at critical areas to control erosion sedimentation and peak flow of flood waters thereby reducing the volume of water downstream and consequently minimizing flooding in the lower river basin. These structures can also be used for agricultural farming and for water supply during periods of drought.

Flooding which incurred major damages to the town and surrounding areas has put pressure on the Government to address the problem of flooding in the Nadi Township, a proposal to realign meandering bends of the river immediately downstream of the town is proposed. The objective to reduce flood levels through a more effective hydraulic channel to discharge flood waters. This work involves the excavation of 1.5km x 40m wide channel.

Education

- 13.11 The Ministry of Education will coordinate with school committees on the necessary repairs required. Currently, rehabilitation and reconstruction costs are estimated at \$1.47m. The Ministry of Education has brought forward the payment of tuition fee grants to affected schools based on their school roll in 2008. A significant amount of donor assistance is expected in this sector.
- 13.12 Additional assistance is being requested for repairs to school buildings and teachers' quarters, classrooms, drainage systems, water tanks and purchase of stationery and furniture

Health

- 13.13 The Health Ministry requires \$665,000 for rehabilitating its medical facilities and public health messages. Many flooded homes need to be cleared of debris and silt, and be sanitised. Vector control measures have to be undertaken on a continuing basis. The Vector Control program has already commenced with World Health Organisation assistance.

Housing

- 13.14 Assistance needs to be provided to 164 individuals whose homes have been completely damaged in the Western Division.

Sugar Industry

- 13.15 Financial assistance is needed to ensure that there is an adequate supply of fertilizer to the cane farms affected. Assistance towards rehabilitation and replanting is necessary to achieve satisfactory production to meet international and domestic requirements.
- 13.16 FSC requires assistance from Government in ensuring that all necessary repairs are made to the Rarawai mill before the start of the 2009 crushing season. Equally, the damage to the cane railway will need to be addressed. Rehabilitation and reconstruction costs are estimated at \$6.70m.

tion and rehabilitation effort in the most cost effective way at the shortest time possible, a well coordinated approach must be put into place for all the stakeholders vis-à-vis government, private sector, civil society and development partners.

- 14.2 In the first phase of relief and rehabilitation, Ministries have used resources from their 2009 budget allocation for rehabilitation to roads, water and sewerage infrastructure, schools, health and nursing centres and agriculture. Development partner assistance has become necessary hereafter.
- 14.4 Government has also considered bilateral and multi lateral development assistance from partners such as the Asian Development Bank and the World Bank.
- 14.5 The following approach has been endorsed by Cabinet on the way forward for government:
- 14.5.1 **Agriculture:** The Ministry of Primary Industries is to prioritise agricultural rehabilitation programs as it affects our food security. The initiatives of supplying planting material and other agro inputs should be continued until the sector is fully rehabilitated. A drainage assessment should also form part of the crop rehabilitation initiative as many farms suffer from poor drainage that does not allow the rainwater to effectively flow away from the farms. Some assistance has been received from the SPC for planting materials.
- 14.5.2 **Commerce:** Government will consider measures to assist businesses in the affected areas. Some requests have already been received from the respective Chambers of Commerce.
- 14.5.3 **Insurance:** The government intends to review the insurance industry including its legislations and policies to ensure that the industry becomes investor friendly and supports developments in the country.
- 14.5.4 **Tourism:** Visitor arrival numbers have declined as a result of the recent floods. The industry is a significant contributor to employment and economic activity. Tourism related areas have been excluded from the declared disaster zones following assurance from relevant agencies that the respective areas have been cleared from the effects of the floods. Tourism Fiji, Air Pacific and the Fiji Hotel Association are jointly developing a promotional program as an immediate measure for the industry to recover from declining visitor arrivals.
- 14.5.5 **Distribution of Food Ration:** Government intends to coordinate with local and international NGOs for the distribution of food rations and

students so that recipients do not benefit more

Relief and rehabilitation: Messages will be relayed to the public that Government will direct efforts towards rehabilitating and reconstructing with the assistance of development partners; however, individual efforts are also necessary and important.

- 14.5.7 **Housing:** As a result of the flash floods, 164 private dwellings have been completely damaged in the Western Division. It is important that Government, through the Ministry of Housing, consider options to assist those with damaged dwellings.
- 14.5.8 **Disaster Awareness and Preparedness:** Due to the number of casualties occurring during disasters, there is an urgent need to develop disaster awareness at community, district, divisional and national level. The awareness programs are to be managed by DISMAC.
- 14.5.9 **Temporary employment:** A majority of casual workers would have lost their jobs as shops/businesses affected by the floods attempt to reduce operating costs. Ministries will consider employment potential from the rehabilitation and reconstruction work, such as cleaning crews, road construction workers, pipe laying and dredging workers. This is to assist the recently unemployed in the affected areas.
- 14.5.10 **Drainage:** The extensive flooding caused by heavy rainfall is an indication that our waterways are not able to drain out the excess water. Drainage is a priority concern for government to ensure that similar levels of damage are avoided in future. Several technical assessments have been conducted subsequent to floods in the past. The recommendations of such assessment reports were not implemented as a result of lack of funding. Assistance in the implementation of the recommendations is needed.
- 14.6 In view of the urgency to rehabilitate and rebuild, a Taskforce comprising of Permanent Secretaries has been formed to oversee the rehabilitation and rebuilding work. A draft Terms of Reference for the taskforce is attached as **Annex 8** of this paper. The Taskforce comprises of Permanent Secretaries of:
- Prime Minister's Office (Chair);
 - National Planning;
 - Finance;
 - Agriculture;
 - Works;
 - Provincial Development;
 - Public Utilities;
 - Local Government, Urban Development & Housing; and
 - Health.

ance Received and Commitments

ment partners and locals. These include both aid-in-kind and cash grants. Aid-in-kind relief supply received consists of water tanks, water purification tablets, water containers, ORS, blankets, soap, antibiotics/ vector/ deinfestation and sleeping mats.

Assistance in kind received ranges from various international agencies. Table 1, below, summarises these while Table 2 lists international relief items yet to arrive.

Table 1 – International Relief Supplies Received

Item	Qty	Donor
Water Tanks 10,000 litre	20	NZAID
Water Purification tablets	166,500	UNICEF
Water Tanks 3,500 litre	15	JAPAN
Water tanks 1,500 litre	15	UNICEF
Water Containers 10ltr	5,600	UNICEF/ JAPAN
Water Containers 20ltr	2,076	NZAID
ORS	2,000	UNICEF
Blankets	1,000	JAPAN/ AUSAID
Soap	69,000	UNICEF
Antibiotics/ Vector/ Deinfestation	Various	WHO
Sleeping Mats	420	JAPAN

Table 2 – International Relief Items to Arrive/Recently Arrived

Item	Qty	Donor
Water Tanks 10,00ltr	50	NZAID
Water Purification tablets	190,000	UNICEF
Water Containers 10ltr	2,000	UNICEF/ NZAID
ORS	148,000	UNICEF

Table 3, below, reflects the offers of assistance in cash and in kind by our international development partners. Cash aid of approximately \$325,000 was given directly to Red Cross, and a further \$150,000 to the Prime Minister's Relief Fund. Further allocation of \$3.0m by AusAid and \$0.5m by NZAid will be decided by the respective agencies, some of which is being used for logistical support in ration distribution. In addition, United National Development Program (UNDP) has offered USD100, 000 for technical assessments and reconstruction work while Korea has offered \$90,000 worth of medical supplies.

			Details
			Payment on vouchers
China	50	PMØ RF	Relief/assistance to school children
Tonga	100	PMØ RF	Relief/assistance to school children
AusAid	3,000	Red Cross, PMØ RF, DISMAC, UNICEF	\$150,000 for Red Cross \$264,000 for PMØ RF \$100,000 to DISMAC food rations \$150,000 to DISMAC for travel and fuel \$151,500 to UNICEF for emergency supplies Balance is awaiting assessment reports on education and agriculture
NZAid	600	DISMAC/Red Cross	\$100,000 for Red Cross \$200,000 to ECREA, FWCC, Good Neighbour International, Friends \$38,000 ó in kind (water tanks) \$10,000 ó in kind (water containers) US\$46,000 for water supplies US\$75,000 for WHO activities NZ\$75,000 to Save the Children's Fund
UNDP	US100	DISMAC	Aid-in-kind includes technical assessments and reconstruction works
Korea	90	Ministry of Health	Aid-in-kind included medical supplies
Papua New Guinea	1,000	PMØ RF	Ration Distribution
India	185	PMØ RF	Ration Distribution
Total	F4,065 (Est.)		

The following initiatives by international agencies are either underway or are being considered:

- EU/ ECHO
 - Allocated \$50/student (approx FJ\$1.2 million)
 - Considering school rehab (approx FJ\$920,000)
 - FESP program funds

- WHO
 - Working with MoH in vector control
- UNDP
 - Assist with technical assessments for development
- SOPAC
 - Flood Damage Assessments (Western Division)
 - Socio-Economic Survey (Nadi/ Ba)
- UNDP/ AusAID/ NZAID
 - Agriculture subsistence rehabilitation

The SPC have offered assistance from their laboratories and through imports of the following:

- * 470kg pulse seeds
- * 30 kg tomato seeds
- * 30 kg eggplant seeds
- * 2kg chilli seeds
- * 1000kg maize seeds
- * 6000kg rice seeds
- * 6000 pawpaw seedlings
- * 1000 kumala planting material
- * 1000 dalo suckers

In addition to the above international government and agency assistance, the fortunate members of the community have also been very generous. The following are some of our generous donors (**Table 4**).

Table 4 – Assistance from Community

Donor	Donor	Donor
Fiji Water	Digicel	Vodafone
Goodman Fielder	Ink Mobile	LDS Church
Punjaø & Sons	Flour Mills of Fiji	ROTARY
Telecom Fiji	Pizza King/ Wishbone	Coca Cola
Hare Krishna	Fiji/ Chinese Community	Fiji Sun
Ranjit Garments	Mark 1 Apparel	Carpenters Fiji
SDL Party	Vinod Patel	Dahia Group
B-A Tobacco		



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ed to conduct assessments of infrastructure facilities for free.

In addition to the Fiji Red Cross Society, the Good Samaritans, Hare Krishna Society, the Sai Society, the Fiji Sevashram Sangha are among some of the social groups that responded during the emergency by providing meals and food items during the height of the disaster and continue to provide relief supplies.

Carpenters (Fiji) Limited have contributed \$100,000 to the Prime Minister's relief fund and have offered to dredge the Nadi river, in exchange for the use of the dredged material.

Hiway Stabilizers, a road construction company, has offered equipment and workers to assist in re-sealing Nadi roads at a cost of \$0.7m.



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Annex 2 National Roads

MINISTRY OF WORKS, TRANSPORT & PUBLIC UTILITIES **DEPARTMENT OF NATIONAL ROADS (DNR)**

Cost of Damages on National Road Infrastructures

The report is to outline the extent of damages on the national road network Infrastructures and associated costs to restore these damages.

The damages differ in scope and multitudes. Most crossing through culverts and bridge approaches were totally washed away due to high intensity of rainfall and runoff. Landslides and gravel washouts on gravel roads caused many damages to the road network.

Heavy infrastructural damages to roads and bridges were inflicted in all divisions with numerous landslides, flooding and damages to bridges due to impact of floating debris.

All the affected roads have simply stopped all traffic requiring urgent restoration works. These include culvert crossings, bridge approaches or section of roads have either hampered, or completely washed away.

Repair works have to be carried out immediately on affected areas which requires significant amount of physical and financial resources to restore damages to road & bridge infrastructures to render safety to the travelling public.

More detailed reports on all areas affected in all divisions will be presented when all roads are accessible for full assessment which still requires additional funding so that full reinstatement works could be completed to grant safety for motorists and travellers.

An estimated costs of damaged are summarised below which will be subject to review when the full assessment damages on our national road network is complete.

DIVISION	Disturbed	Immediate Actions Taken	Estimated Costs of Full Restoration
Suva Depot Area	Gravel washouts on all unsealed roads, blocked drainage & extended potholes on major sealed roads	Clearing debris & blocked drains for road to open. Full re-gravelling & major patching works still pending on sealed roads	\$338,800.00
Rewa Depot Area	Gravel & culvert washouts on most roads in the delta area. Fallen trees & debris blocked drainage system. Slip circle on section of Kings road at Babavoce.	Clearing fallen trees, debris & drains restore washouts for road to open. Full reconstruction on road slip and re-gravelling roads affected.	\$394,460.00
Korovou Depot Area	Road side slip, various landslides & fallen trees. Road gravel & major culvert washouts.	Clearing landslides & fallen trees. Restore road access on some areas pending full restoration works.	\$423,940.00
Nayavu Depot Area	Major landslides & various road side slips on the Kings road section along Wainibuka, Bucalevu & Nanukuloa area.	Road has been cleared however a number of vulnerable areas remain where possible landslides could occur and this needs to be fully restored & render safety	\$3,223,000.00
Naqali Depot Area	A number of Irish crossings were damaged, approaches washed away and road slips occurred on various sections of roads.	Affected Irish crossings washouts have been reopened and work is now being progress to open affected areas by the weekend. Full restoration works pending including road slip construction.	\$649,000.00
Taunovo Depot Area	Fallen trees, landslide & road side slips. Gravel & culvert washouts on sections of roads. Depression & extended potholes on main sealed roads	Clearing landslides & fallen trees. Restore road access on some areas affected pending full restoration works.	\$653,400.00
Eastern Depot Area	Landslides, blocked drainage & gravels washouts on various locations at Kadavu, Levuka, Koro, Cicia, Lakeba & Moala roads.	Workmen clearing the road affected manually to some limited scope awaiting transportation of machinery for full restoration works.	\$1,060,620.00
	Eastern Jetties & causeway affected by the storm	Limited manual restoration works awaiting transportation of machinery for full restoration works.	\$763,400.00
TOTAL			\$7,506,620.00

	Sustained	Immediate Actions Taken	Estimated Costs of Full Restoration
Rakiraki Depot Area	Irish, culvert crossing approach & road gravel washouts. Landslide road side slips occurred on various sections of roads. Expanded potholes	Clearing & backfilling to approaches damaged. Full restoration works is still pending.	\$1,488,240.41
Tavua Depot Area	Washouts on Irish, culvert crossing approaches & road gravel washouts. Landslide road side slips occurred on various sections of roads. Expanded potholes	Clearing & backfilling to approaches damaged. Laying culverts & constructing headwalls. Full restoration works is still pending.	\$1,779,327.00
Ba Depot Area	Various landslide road side slips occurred on various sections of roads. Major washouts on various Irish & culvert crossing approach. Road gravel washouts & expanded potholes on main sealed roads.	Clearing & backfilling to approaches damaged and re-sheeting works. Full restoration works is still pending.	\$4,997,655.97
Lautoka Depot Area	Bridge, Expanded potholes & scouring of bitumen coat on most sealed roads	Clearing & backfilling river gravel & re-sheeting works. Full restoration works is still pending.	\$2,077,571.76
Nadi Depot Area	Extensive damage on the bridge and the wing walls washed away, Irish crossing & culvert washouts. Tar seals on the roads being ripped off on main sealed roads. Gravel washout on road & bridge approaches including landslides on most rural areas.	Clearing & backfilling on sections of roads affected. Full restoration works is still pending.	\$2,601,450.94
Sigatoka Depot Area	Landslides in isolated areas. A number of culverts & Irish crossings were damaged, approaches washed away and road slips occurred.	Clearing & backfilling on sections of roads affected. Full restoration works is still pending.	\$2,229,176.40
TOTAL			\$15,173,422.48

	Damage Sustained	Immediate Actions Taken	Estimated Costs of Full Restoration
Labasa East Depot Area	Various Irish, culvert crossing approach & road gravel washouts occurred on various sections of roads.	Retrieve & relay of culverts manually. Reconstruct end walls & wing walls Re-sheeting & form sections of roads damaged pending full restoration works	\$319,760.00
Labasa West Depot Area	Landslide & road side slips occurred on various sections of roads. Culvert crossing & road gravel washouts.	Clearing & gravel re-sheeting on section of roads damaged pending full restoration works.	\$495,550.00
Saqani Depot Area	Culverts crossings & road gravel washouts	Clearing all culverts inlets & other clearing works manually pending full restoration works.	\$476,200.00
Savusavu Depot Area	Culverts crossings & road gravel washouts	Clearing & backfilling pending full restoration works.	\$620,840.00
Natua Depot Area	Extensive damage on the Lomolomo slip at TIR road. Gravel washout on road & culvert crossing on some section of roads.	Clearing & backfilling on sections of roads affected pending full restoration works.	\$2,257,640.00
Nabouwalu Depot Area	Various landslides & road side slips occurred on Nabouwalu & Kubulau peninsular roads. Severe scouring of jetty causeway. Road gravel & culvert washouts.	Clearing & backfilling to approaches pending full restoration works.	\$695,200.00
Taveuni Depot Area	Culverts crossings & road gravel washouts	Relay & backfilling manually pending full restoration works.	\$198,000.00
Sealing Depot Area	Damaged pavement, severe expanded potholes, laminations.	Heavy patching pending pavement reconstruction.	\$708,070.00
TOTAL			\$5,771,260.00
DNR GRAND TOTAL COSTS			\$28,451,302.48

Division/Sector	Location	Description	Coordinating Agency	Cost of Damage	Possible Donors	Remarks
CENTRAL/EASTERN		WATER				
	Suva/Nausori	<ul style="list-style-type: none"> Washed away pipelines. Rehabilitation of buried water meters. Water carting operations 	WSD HQ in consultation with Divisional Office.	\$200,000		Minimal temporary restoration carried out. Permanent reinstatement works to be carried out.
	Levuka4	<ul style="list-style-type: none"> Damages to intake structure, access road and pipelines. Allowances and overtime for workmen 	WSD HQ in consultation with Divisional Office.	\$40,000		Minimal temporary restoration works done to normalize supply
WESTERN DIVISION		WATER				
	Nadi/Lautoka Bulk Supply/Vaturu Dam	<ul style="list-style-type: none"> Damaged sections of Access Road to Vaturu Dam Damages to sections of Raw Water Pipeline Allowances and overtime for workmen 	WSD HQ in consultation with Divisional Office.	\$500,000		Minimal temporary restoration works to normalize supply
	Nadi Water Supply/Nagado WTP	<ul style="list-style-type: none"> Damages to pipelines, washed away sections of access roads to WTPs, reservoirs, etc fuel costs for generator operations damages to Buildings and amenities Allowances and overtime and 	WSD HQ in consultation with Divisional Office.	\$500,000		Minimal temporary restoration works to normalize supply. Some water carting to isolated complaints and problem areas. Permanent reinstatement works yet to be done.

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		<ul style="list-style-type: none"> wages for additional workmen engaged during storm period and restoration stage. 				
		<ul style="list-style-type: none"> Rehabilitation of buried water meters Water Carting Operations 				
	Lautoka Water Supply	<ul style="list-style-type: none"> Damages to Buabua raw water pipeline, washed away sections of access roads to Intakes, WTPs, Reservoirs Allowances and overtime, and wages for additional workmen engaged during storm period and restoration stage Rehabilitation of buried water meters Water Carting Operations. 	WSD HQ in consultation with Divisional Office.	\$500,000		Minimal temporary restoration works to normalize supply. Some water carting to isolated complaints and problem areas
	Sigatoka Water Supply	<ul style="list-style-type: none"> Damages to pipelines, washed away sections of access roads to Intakes, WTPs, Reservoirs and Pump Stations Damages to Matovo Gallery structure Allowances and overtime, and wages for additional workmen engaged during storm period and restoration stage Rehabilitation of buried water meters Water Carting Operations. 	WSD HQ in consultation with Divisional office.	\$500,000		Minimal temporary restoration works to normalize supply. Some water carting to isolated complaints and problem areas
	Ba Water	<ul style="list-style-type: none"> Relaying of Waiwai to Vaqia Clear Water Trunk Main. Relaying and re-alignment of 	WSD HQ in consultation with Divisional Office.	\$2,000,000		Minimal temporary restoration works. Water Tanks placed at strategic locations and

		<p>Nadrou Rising Main to Waiwai WTP. Varaciva Intake Pump Station Rehabilitation.</p> <ul style="list-style-type: none"> • Varaciva Gravity Intake Rehabilitation • Waiwai Gravity Mains Rehabilitation. 				<p>are being serviced with water trucks for refilling.</p> <p>Permanent restoration works underway.</p>
	Tavua /Vatukoula Water Supply	<ul style="list-style-type: none"> • Damages to pipelines, washed away sections of access roads to Intake, WTPs, reservoirs and pump stations, • Allowances and overtime, for workmen engaged during storm period and restoration stage. 	WSD HQ in consultation with Divisional Office.	\$100,000		Minimal temporary restoration works to normalize supply. Some water carting to isolated complaints and problem areas
	Rakiraki Water Supply	<ul style="list-style-type: none"> • Damages to pipelines, washed away sections of access roads to Intakes • Rehabilitation to damaged switchboards and Pump Station. Other costs: • Allowances and overtime for additional workmen engaged during storm period and restoration stage. 	WSD HQ in consultation with Divisional Office.	\$150,000		Minimal temporary restoration works to normalize supply. Some water carting to isolated complaints and problem areas
NORTHERN DIVISION		WATER				
	Labasa Water Supply	<ul style="list-style-type: none"> • Damages to pipelines, Intake Structures, access roads, pump stations and switchboards. • Buried Water Meters Rehabilitation • Hydrological Stations 	WSD HQ in consultation with Divisional Office.	\$850,000		Minimal temporary restoration works to normalize supply.

		Rehabilitation Water Carting Operations				
	Savusavu Water Supply	<ul style="list-style-type: none"> • Damages to Pipelines, Intake Structures, Access Roads, Pump Stations and Switchboards. • Hydrological Stations Rehabilitation 	WSD HQ in consultation with Divisional Office.	\$450,000		Minimal temporary restoration works to normalize supply. No works on Hydrology and Rural Water Supply
	Nabouwalu Water Supply	<ul style="list-style-type: none"> • Damages to Pipelines, Intake Structures, access roads, • Hydrological Stations Rehabilitation 	WSD HQ in consultation with Divisional Office.	\$500,000		Minimal temporary restoration works to normalize supply.
		SEWERAGE				
		WESTERN				
	Nadi Sewerage	<ul style="list-style-type: none"> • Damaged sewer pipelines, damaged pump station switchboards (purchase and installation), damaged electrical components at Navakai STP, bailing of pump stations, damage to office building (office equipment, computers etc) • Allowance s and overtime. 	WSD HQ in consultation with Divisional Office.	\$500,000		Minimal temporary restoration works to normalize sewerage service
	Lautoka Sewerage	<ul style="list-style-type: none"> • Damaged sewer pipelines, damaged pump station switchboards (purchase and installation), • damage to office building (office equipment, computers etc), 	WSD HQ in consultation with Divisional Office.	\$250,000		Minimal temporary restoration works to normalize sewerage service

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		<ul style="list-style-type: none"> • Damaged sewer pipelines, damaged pump station switchboards (purchase and installation) • Washed away section of Sewer Rising Main from Town to STP • damages to office building (office equipment, computers etc), • Allowances and overtime. 	WSD HQ in consultation with Divisional Office.	\$1,000,000		Restoration works will include re-aligning new sewerage line from Old Bridge to New Bridge. Procurement of pipes are underway. Waste Care is continuing with Bailing works.
	Ba Sewerage	<ul style="list-style-type: none"> • Damaged sewer pipelines, damaged pump station switchboards (purchase and installation), • damages to building and quarters at Votua STP, Bailing of pump stations, damage to office building (office equipment, computers etc) • Allowances and overtime. 	WSD HQ in consultation with Divisional Office.	\$250,000		Minimal temporary restoration works to normalize sewerage service
NORTHERN						
	Labasa Sewerage	<ul style="list-style-type: none"> • Damaged sewer pipelines, damaged pump station switchboards (purchase and installation), • Allowances and overtime. • Damages to Lagoon Ponds 	WSD HQ in consultation with Divisional Office.	\$500,000		Minimal temporary restoration works to normalize sewerage service

PUBLIC & RURAL WATER SUPPLIES BY (OTHER DONORS)

MINOR PUBLIC – NORTHERN DIVISION						
	Vunivau, Bua	<ul style="list-style-type: none"> Damages to Borehole Pump Station and Switchboard. Repair of Access Road and washed away pipes. 	WSD HQ in consultation with Divisional office.	\$100,000	Other Donors	Minimal temporary restoration works to normalize supply.
	Dreketi	<ul style="list-style-type: none"> Rehabilitation to Access Roads, Reservoirs and Borehole Pump Stations. 	WSD HQ in consultation with Divisional office.	\$50,000		Minimal temporary restoration works to normalize supply.
	Seaqaqa	<ul style="list-style-type: none"> Rehabilitation to Raw Water Pumping Station and Reservoirs. Repair of Access Road and Washed away pipelines. 	WSD HQ in consultation with Divisional office.	\$100,000		Minimal temporary restoration works to normalize supply.
	Vunimanuca	<ul style="list-style-type: none"> Repair works to Pump Station and Switchboard. Rehabilitation of Access Road. 	WSD HQ in consultation with Divisional office.	\$100,000		Minimal temporary restoration works to normalize supply.
	Qarawalu	<ul style="list-style-type: none"> Rehabilitation of Borehole Pump Station and Reservoirs. Repair of Access road and washed away pipeline. 	WSD HQ in consultation with Divisional office.	\$50,000		Minimal temporary restoration works to normalize supply.
	Naselesele	<ul style="list-style-type: none"> Repair of Borehole Pump Station and Switchboard Rehabilitation of Access Road. 	WSD HQ in consultation with Divisional office.	\$40,000		Minimal temporary restoration works to normalize supply.
	Waiyevo	<ul style="list-style-type: none"> Rehabilitation of Intake and Access Road. 	WSD HQ in consultation with Divisional office.	\$40,000		Minimal temporary restoration works to normalize supply.

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		Repair of Headwork and Intake Rehabilitation of Access Road.	WSD HQ in consultation with Divisional office.	\$50,000		Minimal temporary restoration works to normalize supply.
Rural Water Supply						
Central/Eastern		<ul style="list-style-type: none"> • Damages to Intakes • Washed away pipelines • Reservoir Rehabilitation • Mitigation of Health Risks such as diarrhoea, dengue fever, leptospirosis, etc. 	WSD HQ in consultation with Divisional office	\$500,000		Minimal restoration works carried out. Permanent reinstatement works yet to be carried out.
Western		<ul style="list-style-type: none"> • Damages to Intakes • Washed away pipelines • Reservoir Rehabilitation • Mitigation of Health Risks such as diarrhoea, dengue fever, leptospirosis, etc. 	WSD HQ in consultation with Divisional office	\$700,000		Minimal restoration works carried out
Northern		<ul style="list-style-type: none"> • Damages to Intakes • Washed away pipelines • Reservoir Rehabilitation • Mitigation of Health Risks such as diarrhoea, dengue fever, leptospirosis, etc. 	WSD HQ in consultation with Divisional office	\$700,000		Minimal restoration works carried out

ITEMS FOR USE DURING DISASTERS & EMERGENCIES (BY

Item Description	Quantity	Remarks
1. Water Cart Tankers 10m ³	6 Nos.	National Use for Water Carting
2. Portable Water Pumps	6 Nos.	National Use for Water Carting
3. Sump pumps for desilting of Pump Stations	3 Nos.	National Use
4. Trailer Mounted Generator Set 200KVA	3 Nos.	For National Use
5. Trailer Mounted Portable Water Treatment Plant up to 1.0MLD	1 Nos.	For National Use
6. Bailing Trucks for Sewage	3 Nos.	For National Use
7. Water Tanks ó 5,000L	50 Nos.	For National Use
8. Water Tanks ó 10,000L	20 Nos.	For National Use
9. Pressure Pumps for Testing Pipes	6 Nos.	For National Use

REHABILITATION BUDGET

A. CROPS

1.0 WESTERN DIVISION

1.1	NADROGA/NAVOSA	=	\$239,016
1.2	BA	=	\$ 50,402
1.3	RA	=	\$155,975

Total for Western Division = \$445,393

2.0 CENTRAL DIVISION

2.1	TAILEVU	=	\$71,849
2.2	NAITASIRI	=	\$50,000
2.3	REWA	=	\$28,151

Total for Central Division = \$150,000

3.0 NORTHERN DIVISION

3.1	CAKAUDROVE/MACUATA	=	\$50,000
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Total for Northern Division = \$50,000

TOTAL CROP REHABILITATION BUDGET = \$645,393

B. LIVESTOCK

CENTRAL = \$1,556,900

WESTERN = \$825,650

TOTAL LIVESTOCK REHAB = \$2382550

C. LWRM

WESTERN = \$15,863,789

CENTRAL = \$1,775,446

NORTHERN = \$1,994,500

TOTAL LWRM = \$19,633,735

GRAND TOTAL = \$22,661,678

FOOD DAMAGE REPORT

The prolonged wet weather experienced during the later months of December 2008 and early January 2009 resulted in the devastating flood which the country experienced from the 8th to the 10th of Jan 2009.

Rainfall data collected at our Sigatoka Research Station for the 3 days (8th, 9th 10th Jan) totalled 425mm as compared to the same period last year (2008) totaling 253mm for 15 days.

Areas affected (Farms) were mainly those located between Sigatoka and Ra province in the Western Division, Lower Naitasiri, Wainibuka, Rewa in the Central Division, and low lying areas in Cakaudrove, Bua Macuata in the Northern Division.

From field observations water mark levels were lower than Cyclone Kina levels; however damage to crops, livestock, and infrastructure, coupled with landslides, far exceeded damage caused by Cyclone Kina. This was due to high intensity of rainfall and water level remaining high for a longer period of time.

Damages sustained in the Agricultural Sector totaled \$22,635,407.00. This has adversely affected Food Security as well as Exportable Commodities. Total area of crops affected is around 2,895 hectares with an estimated value of \$15,968,000.

2.0 DAMAGE ASSESSMENT

Division	Crop	Livestock	Infrastructure	Total
Central	\$ 3,031,746	\$1,680,201	\$1,607,723	\$6,319,670.00
Western	\$12,370,653	\$2,280,316	\$15,863,789	\$30,514,758.00
Northern	\$ 565,647	\$ 35,282	\$ 1,994,500	\$2,595,429.00
Total	\$15,968,046.00	\$3,995,799.00	\$19,466,012.00	\$39,429,857.00

Note : Damage to Sigatoka Research Station and Taiwan Technical Mission facilities amounting to \$125,000 is included in the Western Division total.

emphasized distribution of planting material, supplementary livestock feed and drain desilting as immediate rehabilitation priorities to address food security and income generating activities and the maintenance of related infrastructure. Export promotion and import substitution will become the medium term priority after food security.

Below is the tabulated form of the summary on the front page.

Division	Crop	Livestock	LWRM	Total
Central	\$150,000	\$1,556,900	\$167,723	
			\$1,607,723	\$3,482,346
Western	\$445,393	\$825,650	\$2,292,339	
			\$13,571,450	\$17,134,832
Northern	\$50,000	0	\$211,500	
			\$1,783,000	\$2,044,500
Total	\$645,393.00	\$2,382,550.00	\$19,633,735.00	\$22,661,678.00

4.0 REHABILITATION PROGRAM AND BUDGET PER DIVISION

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4.1 FOOD SECURITY AND DOMESTIC TRADE

Animal Health and Production

Activity/Commodity	Central	West	Total
Pasture Renovation	916,800	112,000	1,028,800
Drugs/Chemicals	79,200	91,000	170,200
Supplementary Feed	234,000	48,000	282,000
Fencing	99,000	54,750	153,750
Drainage	18,900	33,900	52,800
Farm Road	150,000	265,000	415,000
Sheds	50,000	11,000	61,000
Bee Hives	9,000	210,000	219,000
Total	1,556,900	825,650	2,382,550

		North	West	Total
Planting material			86393	86393
Nursery Structure			35,000	35,000
Farm Shed			19,000	19,000
Desilting of Drains		10,000	85,000	95,000
Farm Access		10,000	43,000	53,000
Irrigation Pump Maintenance			27,000	27,000
Agro Inputs		12,000	93,000	105,000
Land Clearing(Debris)			31,000	31,000
Digger Works			26,000	26,000
Dalo	43,000	10,000	0	53,000
Cassava	25,000		0	25,000
Kumala	20,000		0	20,000
Vegetable	15,000	7,000	0	22,000
Pawpaw	22,000	1,000	0	23,000
Other Crops	25,000		0	25,000
Total	150,000	50,000	445,393	645,393

4.3 FLOOD PROTECTION AND DRAINAGE

LWRM Division

Activity	Central	West	North	Total
Land Drainage	107,723	1,613,789	144,500	1,866,012
River Bank Protection	60,000	556,000	67,000	683,000
	1,500,000	3,650,000	350,000	5,500,000
Watershed-Check Dam	0	122,550	0	122,500
		5,000,000	1,500,000	6,500,000
River Dredging	0	5,600,000	0	5,600,000
Total	1,667,723	16,542,339	2,061,500	20,271,562

The major component of the Ministry's rehab budget comes out of the Land and water resources management Division.

The figures highlighted in red are for those major works that may not be for rehabilitation purposes but very important for the mitigation of future floods and can have very drastic effects to our already damaged river systems. For these works we may request for **foreign donor funding**.

An example is the Nadi River alignment if not addressed now then any small flood in the future will continue to wash away the village of Narewa.

used to mitigate for future disasters

- Watershed policies to address land degradation.
- Land use plan
- Land bank
- Gene bank (buffer seeds and planting material)
- Tissue culture laboratory ó rapid multiplication of planting material
- Accelerate the enactment of the amended Land Conservation and Improvement Act

6.0 **PUBLIC AWARENESS**

- Promotion of mixed cropping (traditional farming system)
- Identification of contingency cropping area for cultivation away from flood prone areas
- “Save Your Seed” Campaign
- Control of army worms on affected pastures
- Food Preservation Techniques.
- Importance of following proper Quarantine and Inspection procedures when sending and importing relief supplies from abroad and movement within the country.

7.0 **RECOMMENDATIONS**

After carrying out the flood damage survey and analyzing the data collected the committee agreed on the following recommendations:

- That the 1st phase of the rehabilitation programme be immediately implemented in order to get the recently flooded farms back into production.
- That the drain desilting component in the rehabilitation programme be earnestly looked into to allow for quick land cultivation
- That the required agriculture rehabilitation cost be out sourced from donor agencies in order to allow for the Capital Development on Agriculture to proceed. This will greatly address the Socio-Economic problems prevalent in those devastated areas.



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and Conservation and Improvement Act be appropriate institutional mechanism and structure to fully implement government policies relating to Land Conservation and river bank protection.

- That the dredging of major rivers around the country be treated as a government priority in the medium term. This is to reduce future flooding by allowing better excess water flow into the ocean. .

FUNDING AGENCY	DIVISION	DISTRICT	SCHOOL	ROLL 2008	DESCRIPTION OF DAMAGE	BREAKDOWN OF COSTS	TOTAL COST	
USAID	WESTERN	Ba/Tavua	PRIMARY 1. Tavua Andhra Sangam	114	<ul style="list-style-type: none"> Damaged water tanks. Need replacement. 	Water Tanks ó 5,000	5,000.00	
			2 Balata Primary School	201	<ul style="list-style-type: none"> 2 Water tanks [10,000 litres] blown away and damaged. Another huge water tank shaken and base damaged. 	3 Water Tanks ó 8,000	8,000.00	
			3 Tavua District Primary	420	<ul style="list-style-type: none"> All classrooms [whole building] need good washing and painting. Replace wooden classroom. [Class 5] New classroom to be 32øx 24ø Desks and chairs for new classroom. 	Building ó 10,000 Classroom ó 21,000 Furniture ó 6,000	37,000.00	
			4. St Teresa Primary	426	<ul style="list-style-type: none"> 2 classrooms under water Repair fence Painting of building 	Classroom ó 14,000	14,000.00	
				SECONDARY 5. Kamil College	898	<ul style="list-style-type: none"> Damages from landslides Fatima Hostel facilities damaged 2 c/rooms & 2 Laboratories 	Classroom ó 32,340.50 Building ó 19,100.00	51,440.50
			Lautoka / Yasawa	PRIMARY: 6. Lololo Primary School	40	<ul style="list-style-type: none"> Generator to supply water to reservoir damaged. 10 meters of main pipe line to supply water from reservoir to the school damaged School Water Tank damaged 		10,000.00
				7. Drasa Indian School	314	<ul style="list-style-type: none"> Library and Reading Books 	Library and Reading Books ó 1,000.00	1,000.00
				8. Vakabuli Fijian School	32	<ul style="list-style-type: none"> Water supply to the village and school completely affected for an indefinite period. The school urgently needs 4 water tanks for teacher's quarters and at least 3 for the school to be able to open for classes. 		10,000.00

				ROLL 2008	DESCRIPTION OF DAMAGE	BREAKDOWN OF COSTS	TOTAL COST
			9. Andrews Primary	705	<ul style="list-style-type: none"> Immediate Repairs to the Evacuation Centre 	Immediate Repairs to the Evacuation Centre ó 5,000.00	5,000.00
		Ra	PRIMARY: 10. Nakorotubu District	114	<ul style="list-style-type: none"> Landslide Toilet at back of classroom submerged by flood waters Damaged hostel and hostel facilities Textbooks 	Dormitory ó 5,000.00 Textbooks ó 2,000.00 Building ó 3,000.00	10,000.00
			11. Liwativale Primary	160	<ul style="list-style-type: none"> Textbooks Stationeries 	Textbooks ó 1,500.00 Stationeries ó 1,500.00	3,000.00
			12. Bureivanua District	91	<ul style="list-style-type: none"> Textbooks Stationeries 	Textbooks ó 1,000.00 Stationeries ó 1,000.00	2,000.00
			SECONDARY: 13. Navesau Adventist High	253	<ul style="list-style-type: none"> School farm washed away by flood waters. 	School Garden ó 2,000.00	2,000.00
AUSAID		Nadroga / Navosa	SECONDARY: 14. Lomawai Secondary	405	<ul style="list-style-type: none"> The school's cassava plantation severely damaged by flood waters. 	School Garden ó 4,000.00	4,000.00
	NORTHERN	Macuata / Bua	PRIMARY: 15. St Augustine Public	441	<ul style="list-style-type: none"> 1 classroom Tool room 	Building ó 1,000.00 Classroom ó 6,000.00	7,000.00
			16. Lekutu Bhartiya	79	<ul style="list-style-type: none"> Fallen trees 	Building ó 5,000.00	5,000.00
			17. Dogotuki District	138	<ul style="list-style-type: none"> Hostel damaged Engine room flooded 	Building ó 2,000.00 Dormitory ó 46,000.00	48,000.00
		Cakaudrove	PRIMARY: 18. St Andrews Primary	190	<ul style="list-style-type: none"> Collapse of concrete floor in two classrooms and adjacent toilet block with huge cracks on walls due to ground movements. 	Classroom ó 60,000.00 Building ó 30,000.00	90,000.00
			19. Nasavusavu Public School	358	<ul style="list-style-type: none"> Teachers Quarters: Structural damages ó leaking roofs, falling ceiling and flooring ó need replacing. Crossing [bridge] leading to the school extensively damaged due to flooding. 	T/Quarters ó 10,000.00 Building 5,000.00	15,000.00
			20. Qalitu District School	155	<ul style="list-style-type: none"> Landslide affecting library and toilet block 	Building ó 3,000.00	3,000.00
			SECONDARY: 21. St Bedes College	416	<ul style="list-style-type: none"> 30 metre long land slide beside classrooms up to window level causing cracks on 5 rooms. More rain could cause classrooms to collapse. 	Classroom ó 3,000.00	3,000.00
	CENTRAL	Nausori	22. Lutu District	136	The following were completely destroyed.	Building ó 10,000.00	60,000.00

				ROLL 2008	DESCRIPTION OF DAMAGE	BREAKDOWN OF COSTS	TOTAL COST
					<ul style="list-style-type: none"> ▪ All Library books ▪ All textbooks ▪ 50 Desks ▪ 8 single desks/chairs ▪ 5 Teachers tables/5 chairs ▪ 5 cupboards ▪ 70 louvre blades ▪ Louvre frames ▪ All stationeries ▪ Science kit ▪ All gardening tools ▪ 1 motor mower ▪ carpet for dormitory, classrooms and teachers quarters ▪ kindergarten teaching equipment/furniture/see-saw carried away by flood ▪ 3 single toilets washed away ▪ 3 x 2 burner gas stove ▪ 7 teachers quarters were partially damaged with belongings. 	Textbooks ó 5,000.00 Furniture ó 10,000.00 Classroom ó 10,000.00 Dormitory ó 5,000.00 T/Quarters ó 10,000.00 Stationery ó 5,000.00 Equipment ó 5,000.00	
			23. Nadoroloulou District School		• Repairs & Maint. of Evacuation Centre	Repairs & Maint ó 5,000.00	5,000.00
AUSAID			24. Nasautoka District School		• Repairs & Maint. of Evacuation Centre	Repairs & Maint ó 5,000.00	5,000.00
			25. Nailega District School		• Repairs & Maint. of Evacuation Centre	Repairs & Maint ó 5,000.00	5,000.00
GRAND TOTAL FOR AUSAID							388,440.50



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SUMMARY OF AUSAID ASSISTANCE

Western Division	Primary Schools:	:	11	
	Secondary Schools	:	3	
	TOTAL	:	14	
Northern Division	Primary Schools:	:	6	
	Secondary Schools	:	1	
	TOTAL	:	7	
Central Division	Primary Schools	:	4	
	Secondary Schools	:	0	
	TOTAL	:	4	
	Total No of Primary Schools	:	21	
	Total No of Secondary Schools	:	4	
	GRAND TOTAL	:	25 Schools	-
	\$388,440.50			

FUNDING AGENCY	DIVISION	DISTRICT	SCHOOL	ROLL 2008	DESCRIPTION OF DAMAGE	BREAKDOWN OF COSTS	TOTAL COST	
European Union	Western	Ba/Tavua	Votua Catholic Primary	172	<ul style="list-style-type: none"> 8 classrooms badly damaged 	<ul style="list-style-type: none"> Furniture ó 5000,000 Textbooks -5,000.00 Stationery- 5,000.00 Flooring.-5,000.00 2 Water Tanks -5,000 	25,000	
			Ba Muslim Primary	456	<ul style="list-style-type: none"> One level under water 	<ul style="list-style-type: none"> (i)Classroom Maint. & Repair -18,000.00 (ii)Furniture-5,000.00 (iii)Textbooks-5,000.00 (iv)Beddings-1,000.00 (v)Cooking utensils 1,000.00 (vi)Water Tanks-2,500.00 	32,500	
			Xavier College	738	<ul style="list-style-type: none"> Four classrooms badly flooded Furniture and supplies damaged 	<ul style="list-style-type: none"> Classrooms Maintenance & Repair -20,000.00 (ii)Textbooks-10,000.00 (iii)Equipment-10,000.00 	40,000	
			Lautoka/ Yasawa	Drasa Primary	300	<ul style="list-style-type: none"> Minor flood damage in school compound 	School compound ó 1,000	1,000
			Drasa Secondary	553	<ul style="list-style-type: none"> All ground floor classrooms flooded School library books extensively damaged Rug in library floor damaged Workshop furniture and machines submerged Staff furniture and books Office furniture, books and files all destroyed Home Economics room, equipment and furniture damaged Science laboratory equipment damaged 	<ul style="list-style-type: none"> (i)Furniture- 8,000.00 (ii)Equipment-10,000.00 (iii)Stationery- 5,000.00 (iv)Textbooks-10,000.00 (v)W/Shop & Library Repair- 26,000.00 (vi)Classroom Maint. & Repair- 21,000.00 	78,000	
			Vitogo District Primary	188	<ul style="list-style-type: none"> Fence, compound and teachers' quarters damaged 	Repair ó 10,000	10,000	

			ROLL 2008	DESCRIPTION OF DAMAGE	BREAKDOWN OF COSTS	TOTAL FORMATTED TABLE COST
			561	<ul style="list-style-type: none"> Thirteen classrooms under water Classroom furniture badly damaged Text books destroyed 	(i)Classrooms Maintenance & Repair- 5,000.00 (ii)Textbooks- 2,000.00 (iii)Furniture- 2,000.00	9,000
			945	<ul style="list-style-type: none"> Eighteen classrooms completely flooded Workshops and laboratories badly damaged Furniture and equipment damaged Laboratory chemicals destroyed 	(i)Classroom Maintenance. & Repair-30,000.00 (ii)W/Shop & Laboratory- 24,000.00 (iii)Furniture-10,000.00 (iv)Equipment-10,000.00 (v)Teaching Material- 5,000.00	79,000
European Union	Western		444	<ul style="list-style-type: none"> All ground floor rooms under water, including all classrooms Some classroom furniture destroyed, most damaged Dormitory badly damaged Six teachers quarters flooded 	o Classroom Maintenance. & Repair-18,000.00 o Furniture-20,000.00 o Equipment-20,000.00 o Teachersø Quarters Maint. & Repair- 18,000.00 o Dormitory maint. & Repair- 14,000.00	89,000
			479	<ul style="list-style-type: none"> Main entrance badly damaged Fence extensively damaged / washed away Teachers quarters flooded 	o Teachersø Quartersø Maintenance & Repair -10,000.00 o School Building Maintenance & Repair- 10,000.00	20,000
			391	<ul style="list-style-type: none"> All ground floor classrooms badly damaged by flooding Classroom furniture Equipment and books destroyed 	(i)Equipment- 5,000.00 (ii)Furniture- 5,000.00 (iii)Textbooks- 5,000.00 (iv)Classrooms Maintenance & Repair -35,000.00	50,000
			766	<ul style="list-style-type: none"> Ground floor classrooms badly affected Extensive damage to driveway and fencing 	Classrooms Maintenance 12,000.00	12,000
			912	<ul style="list-style-type: none"> All ground floor classrooms suffered extensive flooding 	Classrooms Maintenance - 45,000.00	45,000

				ROLL 2008	DESCRIPTION OF DAMAGE	BREAKDOWN OF COSTS	TOT Formatted Table COST	
					<ul style="list-style-type: none"> School grounds and perimeter badly damaged 			
				Nawaka District Primary	305	<ul style="list-style-type: none"> Used as evacuation Centre tiles damaged and other minor damage 	Maintenance	3,000
				Ralete Primary	81	<ul style="list-style-type: none"> Two teachers' quarters under water Compound flooded and damaged fence 	Maintenance	8,000
	Western	Ra		Nabau District Primary	193	<ul style="list-style-type: none"> Ground floor completely under water Damage to furniture and books Toilets damaged Teachers quarters flooded 	(i)Classrooms Maintenance & Repair - 5,000.00 (ii)Furniture- 5,000.00 (iii)Textbooks- 3,000.00 (iv)Ablution Block Maintenance & Repair- 4,000.00 (v)T/Quarters Maintenance & Repair - 3,000.00	20,000
				Navatu Fijian Primary	68	<ul style="list-style-type: none"> Damage to computers and photocopier, no longer working Water system broken Two teachers quarters flooded 	(i)Equipment- 4,000.00 (ii)Water Tanks- 4,000.00 (iii)T/Quarters Maintenance & Repair - 4,000.00	12,000
				Navunibitu Catholic Primary	203	<ul style="list-style-type: none"> Dinning hall completely damaged due to landslide 	(i)Dinning Hall Maintenance & Repair -60,000.00	60,000
				Rakiraki Muslim Primary	113	<ul style="list-style-type: none"> School fence damaged Roofs are leaking Flooding in compound 	(i)School Building Maintenance & Repair- 10,000.00	10,000
European Union				Ellington Primary	277	<ul style="list-style-type: none"> Damaged furniture, stationery and books Some roof damage 	(i)Furniture- 3,000.00 (ii)Stationery- 2,000.00 (iii)Textbooks- 2,000.00	7,000
				Navitilevu District Primary	106	<ul style="list-style-type: none"> Damage to two classrooms Some furniture and books 	(i)Furniture- 2,000.00 (ii)Textbooks- 1,000.00 (iii)School Garden Maintenance- 1,000.00	4,000
				Nasau District Primary	244	<ul style="list-style-type: none"> Boarders 2009 cassava crop destroyed 	(i)School Garden Maintenance- 1,000.00	1,000
				Tataiya Memorial Primary	73	<ul style="list-style-type: none"> Watertank badly damaged 	(i)Water Tanks- 2,500.00	2,500
				Nakauvadra College	255	<ul style="list-style-type: none"> Textbooks and stationery destroyed 	(i)Textbooks- 1,500.00 (ii)Stationery- 1,500.00	3,000

				ROLL 2008	DESCRIPTION OF DAMAGE	BREAKDOWN OF COSTS	TOT Formatted Table COST
		Navroga/Navosa	Comua District Primary	109	<ul style="list-style-type: none"> Four classrooms totally flooded Damage to books, partitions and equipment Four teachers quarters damaged 	(i)T/Quarters Maintenance & Repair - 4,000.00 (ii)Classrooms Maintenance & Repair - 4,000.00 (iii)Textbooks- 2,000.00 (iv)Equipments- 2,000.00	12,000
			Nalagi Public Primary	97	<ul style="list-style-type: none"> Two classrooms flooded and partitions broken Damage to equipment and books destroyed Two teachers' quarters flooded 	(i)T/Quarters maintenance & Repair- 3,000.00 (ii)Classroom Maintenance & Repair - 3,000.00 (iii)Textbooks- 2,000.00 (iv)Equipment- 2,000.00	10,000
			Nabitu Indian Primary	77	<ul style="list-style-type: none"> Library slightly damages, books destroyed 	(i)Library Maintenance & Repair - 1,500.00 (ii)Textbooks- 1,500.00	3,000
			Sigatoka Methodist Primary	885	<ul style="list-style-type: none"> Nine classrooms suffered minor damage 	(i)Classroom Maintenance & Repair - 5,000.00	5,000
			Sigatoka Methodist College	582	<ul style="list-style-type: none"> Eight classrooms flooded, some repairs required 	(i)Classroom Maintenance & Repair - 5,000.00	5,000
			Waicoba District Primary	136	<ul style="list-style-type: none"> Dormitory flooded 	(i)Dormitory Maintenance & Repair - 3,000.00	3,000
			Mavua District Primary	86	<ul style="list-style-type: none"> Four teachers' quarters flooded 	(i)T/Quarters Maintenance & Repair - 5,000.00	5,000
	Northern	Macuata/Bua	Guru Nanak Primary	417	<ul style="list-style-type: none"> Thirteen classrooms flooded, some badly 	(i)Furniture-\$3,000.00 (ii)Classroom Maintenance & Repair -\$17,000.00	20,000
European Union	Northern	Macuata/Bua	Labasa College	618	<ul style="list-style-type: none"> Twenty-eight classrooms flooded Eleven teachers quarters flooded Two Hostel blocks and Dining Hall flooded Woodwork building flooded Books and equipment destroyed 	(i)Classroom Maintenance & Repair -20,000.00 (ii)T / Quarters Maintenance & Repair -24,000.00 (iii)Hostel	80,000

			ROLL 2008	DESCRIPTION OF DAMAGE	BREAKDOWN OF COSTS	TOTAL COST	
					Block Maintenance & Repair -20,000.00 (iv) Dining Hall Maintenance & Repair - 5,000.00 (v) W/Shop Maintenance & Repair - 5,000.00 (vi) Textbooks- 3,000.00 (vii) Equipment- 3,000.00		
			Holy Family Primary	346	<ul style="list-style-type: none"> Seven classrooms affected Furniture and books destroyed Brush cutter and motor mower also damaged 	(i) Classroom Maintenance & Repair- 5,000.00 (ii) Equipment- 1,000.00 (iii) Furniture- 2,000.00 (iv) Textbooks- 2,000.00	
			Bethel Primary	489	<ul style="list-style-type: none"> Eleven classrooms under water Damage to furniture, tiles and flooring 	(i) Classroom Maintenance & Repair - 6,000.00 (ii) Furniture- 2,000.00	
			All Saints Secondary	856	<ul style="list-style-type: none"> Twenty-one classrooms flooded Home Ec. and Biology Blocks flooded Administration Block affected Office and classroom equipment destroyed Workshop equipment damaged Textbooks and laboratory chemicals destroyed 	(i) Classroom Maintenance & Repair- 25,000.00 (ii) W/Shop/H.Eco/Lab Maint. & Repair-30,000.00 (iii) Equipment-40,000.00 (iv) Teaching Material- 5,000.00	
			St Mary's Primary	604	<ul style="list-style-type: none"> Some water damage to each of eleven classrooms 	(i) Classroom Maintenance & Repair - 8,000.00 (ii) Furniture- 2,000.00	
	Central	Nausori	Burebasaga District	145	<ul style="list-style-type: none"> Library damaged by flooding Teachers' toilets and kitchen damaged Textbooks and computer destroyed Textbooks 	(i) Textbooks- 3,000.00 (ii) Building-17,000.00 (iii) Equipment- 3,000.00 (iv) T/Quarters-10,000.00	33,000
			Nailili Catholic Primary	145	<ul style="list-style-type: none"> Ablution block (including twelve toilets) flooded 	(i) Building-10,000.00	10,000
			Rewa Secondary	175	<ul style="list-style-type: none"> Three classrooms damaged, tiling etc. Equipment destroyed (three PCs, two TVs, four sewing machines) Three stoves and one refrigerator destroyed 	(i) Equipment-10,000.00 (i) Stationery- 5,000.00 (iii) Classroom- 5,000.00	20,000

ROLL 2008	DESCRIPTION OF DAMAGE	BREAKDOWN OF COSTS	TOTAL COST
	• Books and stationery		

SUMMARY OF EUROPEAN UNION ASSISTANCE

Western Division	Primary Schools:	:	24	
	Secondary Schools	:	7	
	TOTAL	:	31	
Northern Division	Primary Schools:	:	4	
	Secondary Schools	:	3	
	TOTAL	:	7	
Central Division	Primary Schools	:	2	
	Secondary Schools	:	1	
	TOTAL	:	5	
	Total No of Primary Schools	:	30	
	Total No of Secondary Schools	:	11	
	TOTAL	:	41 Schools -	957,000.00
	LEVY	:	41 Schools -	1,079,500.00

TOTAL : 41 Schools - \$2,036,500.00

PROGRESS OF FLOOD REHAB WORKS – as at 12/02/09

Deleted: ¶

- ✓ MOU for each recipient school has been sent to Divisional Education Officers
- ✓ District SEO's are authorized to sign on behalf of the Ministry in the MOU
- ✓ The Grants will be deposited, after submission of three quotations, into special accounts and SEO's are one of the signatories
- ✓ SEO's to monitor the utilization of funds, collate invoices/receipts and submit reports to HQ
 - MOU's received to date:
 - 17 Schools for EU assistance
 - 7 Schools for AusAid Assistance
 - Lodgement of funds into school accounts are in progress.

ADDITIONAL LIST FOR FLOOD REHABILITATION
(FUNDING YET TO BE CONFIRMED)

DIVISION	DISTRICT	SCHOOL	ROLL 2008	DESCRIPTION OF DAMAGE	BREAKDOWN FOR ESTIMATED COST	TOTAL ESTIMATED COST	REMARKS
WESTERN	Ba/Tavua	Primary: 1. Nalotawa District School	44	Water Catchment damaged by land slide and Water Pipes broken	Water Catchment 1,500.00 Water Pipes 1,500.00	3,000	
		2. Naloto District Sch	108	Water System Restoration due the damage done by the recent flood.	Water (7)	10,000	
		3. Votua Catholic Sch	176	Maintenance, repairs and painting works of six (6) staff quarters.	Maintenance & Repairs 18,800.00	18,800	
		4. Tavua District Sch	420	1 x Classroom, 31 desks and Chairs	1 x Classroom 31 Desks & 31 Chairs	40,800	
		5. Nadi Special Education School	136	One classroom under 6 feet of flood waters. Damaged are: <ul style="list-style-type: none"> Doors and windows (\$2000) 14 desks and chairs (\$1470) Stationary and Text Books (\$500) Agriculture & feed and livestock (\$350) 	Doors and windows (\$2000) 14 desks and chairs (\$1470) Stationary and Text Books (\$500) Agriculture & feed and livestock (\$350) Equipment- Rota Hoe (\$2300)	6,620	80% of students affected by the flood and would need assistance in the form of exercise books, stationeries bags, and lunch.

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				ROLL 2008	DESCRIPTION OF DAMAGE	BREAKDOWN FOR ESTIMATED COST	TOTAL ESTIMATED COST	REMARKS
					<ul style="list-style-type: none"> Equipment- Rota Hoe (\$2300) 			
		6. Teidamu Primary School		65	<p>Water supply to the school has been affected by landslide at back of the school.</p> <ul style="list-style-type: none"> Borehole pump (\$2000) Water pipe and water tank (\$1000) Driveway (\$1000) Sch drainage (\$500) 	<p>Borehole pump (\$2000) Water pipe and water tank (\$1000) Driveway (\$1000) Sch drainage (\$500)</p>	4,500	
		7. Naviti District School (Yasawa)		170	<p>Rain water took soil and water into the classes one and two classroom. Damaged are:</p> <ul style="list-style-type: none"> Concrete wall Carpet (Lino) 2 rooms Classes one and two text and reading books <p>Elementary Science -Social Science -Health Science -English Enrichment Course -For classes 1 & 2 (Pacific English) English Pupils Activities Book -Viti Dua</p>		7,000	

				ROLL 2008	DESCRIPTION OF DAMAGE	BREAKDOWN FOR ESTIMATED COST	TOTAL ESTIMATED COST	REMARKS
					-Maths 1 & 2 Teachers hand Book -Maths 1 and 2 pupils book -Shared Reading Books for classes 1 - 3 -Plastercines -Teachers Hand Book for classes 1 ó 3			
		8. Maigania Muslim Primary School	261	<ul style="list-style-type: none"> 6 classrooms leaking 50 chairs (damaged by evacuees) 50 chn without exercise books 	<ul style="list-style-type: none"> 6 classrooms leaking - \$200 50 chairs (damaged by evacuees) 50 chn without exercise books 	1,800		
		9. Nasomolevu Catholic (Yasawa)	120	<ul style="list-style-type: none"> Two 10 liter water tank damaged Drainpipes and guttering that collect rain water for storage School building and teachers quarters (needing minor repairs) School garden for boarders 	Two 10 liter water tank damaged (\$5000) Drainpipes and guttering that collect rain water for storage - \$1500 School building and teachers quarters (needing minor repairs). - \$1500	8,000		
		10. Sabeto Muslim Primary School and Kindergarten	220	<ul style="list-style-type: none"> School culture hall carpet damaged by 65 cm of flood waters that entered the hall All kindergarten teaching resources (\$150) 	All kindergarten teaching resources (\$150) Kindi Book shelves (\$800) Kindi toys and education materials (\$550) Rugs (\$400) Musical instruments (\$150)	3,000		

			ROLL 2008	DESCRIPTION OF DAMAGE	BREAKDOWN FOR ESTIMATED COST	TOTAL ESTIMATED COST	REMARKS
				<ul style="list-style-type: none"> • Kindi Book shelves (\$800) • Kindi toys and education materials (\$550) • Rugs (\$400) • Musical instruments (\$150) • Hand and eye co-ordination toys (\$800) 	Hand and eye co-ordination toys (\$800)		
NORTHERN	Macuata /Bua	Secondary: 1.Holy Family Secondary School		Flooded classrooms which damage the desks and books and also floor tiles have been soaked. Tool rooms was also flooded where the lawn mower and the brushcutter were kept and both machines were damaged.	30 Desks 4 Classrooms soak tiles 1 lawn mower 1 Brush Cutter	15,000	
	Cakaudrove	St Bedes College		A major landslide has caused severe damages to classrooms and furniture.	General maintenance work to classrooms. Desks and chairs Retaining Wall to prevent further landslides.	60,000	
		TOTAL				178,520	

OTHER FUNDING AGENCIES

FUNDING AGENCY	DIVISION	DISTRICT	SCHOOLS	NATURE OF ASSISTANCE	TOTAL COST
<ul style="list-style-type: none"> • Art of Living Foundation • Shri Satya Sai Organistaion of Lautoka • Rama Krishna Mission • Brisbaani Aid Foundation • Williams & Goslings Ltd 	Western	Lautoka/Yasawa	<ol style="list-style-type: none"> 1. Nadele Primary 2. Masi Masi Primary 3. Sbetto Muslim Primary 4. Sabeto Secondary 5. Sabeto Indian Primary 6. Sabeto District 7. Sabeto Sangam 8. Nadi Primary 	<p>The content of the Primary School Pack is as follows:</p> <ul style="list-style-type: none"> • 1 x 3B1 Note Book (80 pages) • 6 x A4 Exercise Book (100 pages) • 1 x 4C A4 Maths Book (100 pages) • 1 x Blue Pen • 1 x Red Pen • 1 x Lead Pencil • 1 x Color Pencil Set • 1 x Ruler • 1 x Sharpener • 1 x Rubber • 1 x Pencil Case <p>The content of the Secondary School Pack is as follows:</p> <ul style="list-style-type: none"> • 6 x A4 Lecture Pads (100 pages) • 1 x 4C A4 Maths Book (200 pages) • 1 x Blue Pen • 1 x Red Pen • 1 x Lead Pencil • 1 x Ruler 	N/A

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- 1 x Sharpener
- 1 x Rubber
- 1 x Pencil Case

RED CROSS SOCIETY

STILL AWAITING THEIR CONFIRMED LIST

FIJI WATER

AS OUTLINED ON PAGES 15 & 16

School	Roll	Exercise Books Qty	Exercise Books		
			Cost	Stationary Cost	Total Cost
HIGH SCHOOLS	-				
Nadi Muslim College	1182	3,546	5,186.03	1,300.20	6,486.23
Ratu Navula College	757	2,271	3,321.34	832.70	4,154.04
Nadi District School	553	1,659	2,426.29	608.30	3,034.59
Nadi Sangam College	993	2,979	4,356.79	1,092.30	5,449.09
Drasa Secondary School	720	2,160	3,159.00	792.00	3,951.00
Xavier College	700	2,100	3,071.25	770.00	3,841.25
Sigatoka Methodist College	600	1,800	2,632.50	660.00	3,292.50
Nadi International School	300				-
Nabau District School	173	519	759.04	190.30	949.34
Tataia Memorial School	73	219	320.29	80.30	400.59
Rakiraki District School	115	345	504.56	126.50	631.06
Waicoba District School	136	408	596.70	149.60	746.30

		258	377.33	94.60	471.93
Navanikola District School	289	627	916.99	229.90	1,146.89
Navatu Fijian School	70	210	307.13	77.00	384.13
Nakauvadra High School		-	-	-	-
Conua District School	110	330	482.63	121.00	603.63
Nalagi Public School	101	303	443.14	111.10	554.24
Nabitu Indian School	72	216	315.90	79.20	395.10
	6950	19,950	29,176.88	7,315.00	36,491.88
PRIMARY SCHOOLS					
Sigatoka Methodist Primary	900	3,600	2,430.00	990.00	3,420.00
Nadi Muslim Primary	570	2,280	1,539.00	627.00	2,166.00
Nadi Primary School	351	1,404	947.70	386.10	1,333.80
Nadi Sangam Primary	885	3,540	2,389.50	973.50	3,363.00
BA Muslim Primary	435	1,740	1,174.50	478.50	1,653.00
Ralete Primary School	89	356	240.30	97.90	338.20
Ellington Primary	249	996	672.30	273.90	946.20
	3479	13,916	9,393.30	3,826.90	13,220.20
Other schools yet to come in	2000	7,000	7,087.50	2,200.00	9,287.50
Total	12,429	40,866	45,657.68	13,341.90	58,999.58



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Stationary Provided Per Student		
Item - name,description	Qty	Cost
2HB pencil	2	0.20
School ruler clear 30cm	1	0.27
Eraser	1	0.15
BP Plastic sharpners	1	0.10
BIC cristal blue pen	2	0.74
BIC cristal red pen	2	0.74
		2.20

CENTRAL DIVISION

HEALTH	Location	Description of Damage and extent in acres	Coordinating Agency	Cost of Damage	Action taken currently	Action that needs to be taken	Remarks
	Vunidawa hospital	Flooding of staff qtrs Medical evacuation emergency	DMO CE MOH HQ	\$30,000 Funds from Maintenance vote-Rural			
	Lutu N/S self help	Flooded	DMO CE MOH HQ	\$220,000 Funds from Capital Projects. MOF			
	Dawasamu Nursing Station	Potential land slide on the NS Site	DMO CE MOH HQ	\$100,000 Funds from MOF			
		Total Damage		350,000			

HEALTH	Location	Description of Damage and extent in acres	Coordinating Agency	Cost of Damage	Action taken currently	Action that needs to be taken	Remarks
Sigatoka	Raiwaqa	Broken main sewerage pipe. Damage to Raiwaqa health Centre	Department of Water and Sewerage Ministry of Health DMO Western,	10,000	NCHP public advise on air. DMO monitoring Scoping to be done by MOH	Minor Works Equipment	MOH Planning Division calculating final costs
Loma Nursing Station		Flooded	DMO Western, MOH, HQ	\$10,000 10,000		Minor Works Equipment And Drugs	
		No water supply	DMO Western, MOH, HQ				
Ba Mission Hospital		No water Supply	DMO Western, MOH, HQ		Water tanks supplied	Minor Works Equipment, Electrical, and Drugs	
Ba Health Center	Flooded	Damage from flood water	DMO Western, MOH, HQ	\$20,000	Scoping to be done by MOH MOH Budget		
Nailaga Hospital		No water supply Mortuary not	DMO Western, MOH, HQ	\$20,000 10,000	Restoration work Water tank		

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			Coordinating Agency	Cost of Damage	Action taken currently	Action that needs to be taken	Remarks
		extent in acres					
		working			supplied		
Ba Health Centre		Flood No water	DMO Western, MOH, HQ	\$20,000 10,000	Service closed Water tank supplied		
Lautoka hospital		Dental clinic damage to retaining wall	DMO Western, MOH, HQ	50,000.00	Scoping done by MOH MoH Budget	Retaining Wall to be repaired	MOH Planning Division making actual cost
		Total Damage		140000			

HEALTH	Location	Description of Damage and extent in acres	Coordinating Agency	Cost of Damage	Action taken currently	Action that needs to be taken	Remarks
	Labasa Hospital	Reporting high no of dengue cases	DMO, North, MOH,HQ		On emergency standby		
	Bagasau Nursing station	Flooded kitchen and toilet	Fund from Maintenance vote \$10,000		To await flood to settle		
	Tawake nursing station	No water		Water Tanks		Water to be supplied immediately	
	Bua subdivision problematic Nabouwalu Hosp	Very low oxygen for incubator supply Low diesel supply low water supply - damaged reservoir for whole of Nabouwalu district		Repair work in progress	Preterm baby to be transferred to Labasa hosp by air DMON to arrange with PWD for fuel		
Communication Systems	MOH RT Stations Damaged		Repair and Installation	\$25,000	Scoping to be done by MOPH	Repair works	MOH Planning Division making actual costs.

Annex 7 Completely Damaged Residential Homes in the Western Division

NO	DISTRICT	TYPES OF HOUSES				DAMAGES		TOTAL	TOTAL COSTS
		WOOD	CONC	CORR	BURE	PARTLY	COMP		
1	Nadroga	0	0	0	0	0	0	0	\$0.00
2	Navosa	4	0	4	0	0	8	8	\$24,500.00
3	Nadi	44	14	45	0	0	103	103	\$916,460.00
4	Lautoka/Yasawa	18	0	9	0	0	27	27	\$149,200.00
5	Ba	9	0	3	0	0	12	12	\$130,000.00
6	Tavua/Nadarivatu	2	0	0	0	0	2	2	\$25,000.00
7	Ra	12	0	0	0	0	12	12	\$13,000.00
	GRAND TOTAL	89	14	61	0	0	164	164	\$1,258,160.00

NATIONAL FLOOD DAMAGE ASSESSMENT REPORT 2009

STRUCTURAL DAMAGE

DISTRICTS: NADI										
NO	VILLAGE/SETT	NAME OF VICTIMS	TYPES OF HOUSES				DAMAGES		ESTIMATE COSTS	REMARKS
			WOOD	CONC	CORR	BURE	PARTLY	COMP		
1	Koroyaca Village, Sabeto	Apete Bogitini	X					X	\$10,000.00	
2	Koroyaca Village, Sabeto	Solomoni	X					X	\$5,000.00	
3	Narokorokoyawa Village, Sabeto	Aseri Koro			X			X	\$5,000.00	
4	Narokorokoyawa Village, Sabeto	Rakuli Lidi			X			X	\$3,960.00	
5	Narewa Sett	Kala Wati	X					X	\$2,000.00	
6	Narewa Sett	Nitesh Chand	X					X	\$3,500.00	
7	Nawaka	Sivia No 1			X			X	\$5,000.00	
8	Nawaka	Kitione Nawate	X					X	\$2,000.00	
9	Leeds Sett, Nawaka	Janen Sam		X				X	\$9,000.00	
10	Leeds Sett, Nawaka	Abom Aiyaz	X					X	\$5,000.00	
11	Leeds Sett, Nawaka	Mazra Begum			X			X	\$4,000.00	

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				X			X	\$8,000.00	
				X			X	\$5,000.00	
14	Leeds Sett, Nawaka	Tomasi Raoma					X	\$5,000.00	
15	Leeds Sett, Nawaka	Emanuel	X				X	\$20,000.00	
16	Leeds Sett, Nawaka	Mohammed Jamal	X				X	\$7,000.00	
17	Leeds Sett, Nawaka	Dinesh Chand		X			X	\$10,000.00	
18	Leeds Sett, Nawaka	Krishna					X	\$6,000.00	
19	Leeds Sett, Nawaka	Rajesh Prakash Sharma					X	\$8,000.00	
20	Leeds Sett, Nawaka	Rattan Sami		X			X	\$15,000.00	
21	Leeds Sett, Nawaka	Riyaz Ali					X	\$5,000.00	
22	Nakurakura	Solomoni Nakeli		X			X	\$5,000.00	
23	Andrew rd, Nakurakura	Rusiate Ralulu		X			X	\$15,000.00	
24	Andrew rd, Nakurakura	Cathy Ligalevu		X			X	\$10,000.00	
25	Andrew rd, Nakurakura	Solomoni Tavai		X			X	\$20,000.00	
26	Andrew rd, Nakurakura	Mosese Niumataivalu		X			X	\$30,000.00	
27	Andrew rd, Nakurakura	Ilaisa Tulele		X			X	\$30,000.00	
28	Andrew rd, Nakurakura	Razak Ali		X			X	\$30,000.00	
29	Andrew rd, Nakurakura	Raniga		X			X	\$20,000.00	
30	Andrew rd, Nakurakura	Sakiusa Lasaqa		X			X	\$10,000.00	
31	Andrew rd, Nakurakura	Mr Sharma		X			X	\$6,000.00	
32	Andrew rd, Nakurakura	Kanti Lal		X			X	\$7,000.00	
33	Nalagi Shopping Center	Muni Raju	X				X	\$5,000.00	
34	Nalagi Shopping Center	Naushad	X				X	\$5,000.00	
35	Navoci Village	Siteri Tukawa	X				X	\$10,000.00	

			X					X	\$11,000.00	
			X					X	\$15,000.00	
38	Navoci Village	Jone Nagasau	X					X	\$12,000.00	
39	Navoci Village	Akesa Tuidrawe	X					X	\$11,000.00	
40	Saunaka Village	Uraia Toga	X					X	\$11,000.00	
41	Saunaka Village	Mere Qoro	X					X	\$12,000.00	
42	Saunaka Village	Kaminieli Tuiwasa	X					X	\$15,000.00	
43	Saunaka Village	Mosese Naulu	X					X	\$6,000.00	
44	Saunaka Village	Mesulame Sovau	X					X	\$6,000.00	
45	Saunaka Village	Vika Delai	X					X	\$8,000.00	
47	Saunaka Village	Litiana Qoro	X					X	\$6,000.00	
48	Nakavu Village	Ana Naibuka	X					X	\$7,000.00	
49	Nakavu Village	Sociceni Katani	X					X	\$5,000.00	
50	Nakavu Village	Amimasi Vakatuinayau	X					X	\$3,000.00	
51	Nakavu Village	Petueli Bogi	X					X	\$8,000.00	
52	Nakavu Village	Joeli Rokosuka	X					X	\$7,000.00	
53	Nakavu Village	Pita Bolea	X					X	\$3,000.00	
54	Nakavu Village	Elenoa Sarewa	X					X	\$9,000.00	
55	Nakavu Village	Tevita Kilainado	X					X	\$5,000.00	
56	Nakavu Village	Eroni Rogolea	X					X	\$4,000.00	
57	Nakavu Village	Losana Malumu	X					X	\$6,000.00	
58	Nakavu Village	Panapasa Viurawa	X					X	\$12,000.00	
59	Narewa Village	Esi Samo	X					X	\$15,000.00	
60	Nawaka Village	Kitione Nawate	X					X	\$15,000.00	

			X					X	\$13,000.00	
			X					X	\$6,000.00	
63	Korociri Settlement	Peni	X					X	\$5,000.00	
64	Korociri Settlement	Elina	X					X	\$8,000.00	
65	Korociri Settlement	Lili	X					X	\$4,000.00	
66	Korociri Settlement	Mosese	X					X	\$6,000.00	
67	Korociri Settlement	Qase	X					X	\$7,000.00	
68	Korociri Settlement	Emosi	X					X	\$4,000.00	
69	Nawejikuma Settlement	Mohammed Hassan			X			X	\$15,000.00	
70	Matavau Settlement	Ravin Dutt			X			X	\$8,000.00	
71	Matavau Settlement	Sunil			X			X	\$8,000.00	
72	Navakai FSC	Sakeasi Dawai			X			X	\$10,000.00	
73	Navakai FSC	Timoci Vuki			X			X	\$9,000.00	
74	Yavusania Village	Manoa Kagi			X			X	\$7,000.00	
75	Yavusania Village	Nemani Momo			X			X	\$7,000.00	
76	Yavusania Village	Joeli Sereki			X			X	\$9,000.00	
77	Yavusania Village	Liku Momo			X			X	\$8,000.00	
78	Yavusania Village	Seremaia Modura			X			X	\$7,000.00	
79	Yavusania Village	Maliva Lotawa			X			X	\$9,000.00	
80	Yavusania Village	Joji [Vakatawa]			X			X	\$8,000.00	
81	Yavusania Village	Adriu [Rewa]			X			X	\$9,000.00	
82	Saravi Settlement	Losana Ratu			X			X	\$10,000.00	
83	Saravi Settlement	Faizal			X			X	\$11,000.00	
84	Saravi Settlement	Waisale Moko			X			X	\$11,000.00	

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				X			X	\$10,000.00	
				X			X	\$9,000.00	
87	Saravi Settlement	Alivereti Utokai		X			X	\$11,000.00	
88	Saravi Settlement	Jitoko Beka		X			X	\$9,000.00	
89	Saravi Settlement	Refaz		X			X	\$9,000.00	
90	Matavouvu Settlement	Alivereti Vitokai		X			X	\$8,000.00	
91	Matavouvu Settlement	Peniasi N Lee		X			X	\$8,000.00	
92	Wailoaloa Settlement	Jalil Mohammed (Club)		X			X	\$6,000.00	
93	Qeलेloa Town End	Jone Polotu		X			X	\$9,000.00	
94	Qeलेloa Town End	Tima & Elia		X			X	\$8,000.00	
95	Qeलेloa Town End	Sunil Kumar		X			X	\$9,000.00	
96	Qeलेloa Town End	Moh'd Shameem		X			X	\$11,000.00	
97	Qeलेloa Town End	Ashok Kumar		X			X	\$11,000.00	
98	Qeलेloa Town End	Lawrence		X			X	\$10,000.00	
99	Qeलेloa Town End	Moh'd Kadar		X			X	\$9,000.00	
100	Qeलेloa Town End	Rakesh		X			X	\$8,000.00	
101	Qeलेloa Town End	Robin Kumar		X			X	\$4,000.00	
102	Qeलेloa Town End	Losalini		X			X	\$6,000.00	
103	Qeलेloa Town End	Hanmantu		X			X	\$4,000.00	
		TOTAL	44	14	45	0	0	103	\$916,460.00

NATIONAL FLOOD DAMAGE ASSESSMENT REPORT 2009

STRUCTURAL COMPLETELY DAMAGED

DISTRICTS: LAUTOKA/YASAWA

NO	VILLAGE/SETT	NAME OF VICTIMS	TYPES OF HOUSES				DAMAGES		ESTIMATE COSTS	REMARKS
			WOOD	CONC	CORR	BURE	PARTLY	COMP		
1	Naviyago Vill	Jolame Vasudra	X					X	\$3,000.00	RHA Needed
2	Naviyago Vill	Sanuela Yalayala	X					X	\$3,000.00	RHA Needed
3	Naviyago Vill	Viliame Nakuila			X			X	\$3,000.00	RHA Needed
4	Vitogo Vill	Laisenia Tamani			X			X	\$3,000.00	RHA Needed
5	Vitogo Vill	Viliame Torotorovesi	X					X	\$2,000.00	RHA Needed
6	Tunuloa/Drasa Dam	Atish Chand	X					X	\$10,000.00	RHA Needed
7	Johnson Road	Anil Chauhan			X			X	\$10,000.00	RHA Needed
8	Drasa No 1 Seaside	Jay Ram			X			X	\$700.00	RHA Needed
9	Drasa Transmitter	Tala2 Orisi Burekama	X					X	\$2,000.00	RHA Needed
10	Drasa No 18 Road	Jay Ram	X					X	\$3,000.00	RHA Needed
11	Lovu Seaside	Vivek Prasad	X					X	\$10,000.00	RHA Needed
12	Lovu Seaside	Aparama Koli	X					X	\$600.00	RHA Needed
13	Lovu Seaside	Sailosi Ramasima	X					X	\$900.00	RHA Needed
14	Lovu Seaside	Uvi			X			X	\$1,000.00	RHA Needed
15	Matawalu Vill	Samu Volaca			X			X	\$3,000.00	RHA Needed

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					X				X	\$5,000.00	RHA Needed
17	Lololo Sett	Akulia Dntso	X						X	\$10,000.00	RHA Needed
18	Lololo Sett	Peceli Dredrenalabi	X						X	\$10,000.00	RHA Needed
19	Lololo Sett	Osea Bilo	X						X	\$10,000.00	RHA Needed
20	Vaivai Sett/Vaivai Vadrama	Ami Chand	X						X	\$30,000.00	RHA Needed
21	Korobebe Vill	Semi Turuva	X						X	\$1,800.00	RHA Needed
22	Saru/Vaivai	Apisai Basaga	X						X	\$500.00	RHA Needed
23	Natabua Seaside	Apenisa Qarita	X						X	\$11,000.00	RHA Needed
24	Lovu Seaside	Ram Sami	X						X	\$1,500.00	RHA Needed
25	Lovu Seaside	Suliasi Sauqaqa	X						X	\$200.00	RHA Needed
26	Saru Back Road, Tavakubu	Salote Vatu				X			X	\$7,000.00	RHA Needed
27	Saru Back Road, Tavakubu	Mereseini Vuavua				X			X	\$7,000.00	RHA Needed
	GRAND TOTAL		18	0	9	0	0	0	27	\$149,200.00	

NATIONAL FLOOD DAMAGE ASSESSMENT REPORT 2009

STRUCTURAL COMPLETELY DAMAGED

DISTRICTS: Tavua/Nadarivatu

NO	VILLAGE/SETT	NAME OF VICTIMS	TYPES OF HOUSES				DAMAGES		ESTIMATE COSTS	REMARKS
			WOOD	CONC	CORR	BURE	PARTLY	COMP		
1	Toko Sett.	Meli Nabole	X					X	\$10,000.00	RHA Needed
2	Marou Village	Inoke Daveci	X					X	\$15,000.00	RHA Needed
GRAND TOTAL			2	0	0	0	0	2	\$25,000.00	

DISTRICTS: RA

NO	VILLAGE/SETT	NAME OF VICTIMS	TYPES OF HOUSES				DAMAGES		ESTIMATE COSTS	REMARKS
			WOOD	CONC	CORR	BURE	PARTLY	COMP		
1	Bucalevu Village	Osea Nawaqa	X					X	\$1,000.00	RHA Needed
2	Bucalevu Village	Rosivela Sawani	X					X	\$1,000.00	RHA Needed
3	Bucalevu Village	Josaia Nakoki	X					X	\$800.00	RHA Needed
4	Bucalevu Village	Inia Raiqoli	X					X	\$800.00	RHA Needed
5	Bucalevu Village	Tevita Rokosuka	X					X	\$800.00	RHA Needed
6	Bucalevu Village	Vikatori Taqa	X					X	\$800.00	RHA Needed
7	Bucalevu Village	Josefa Lalaisu	X					X	\$800.00	RHA Needed
8	Bucalevu Village	Fereti Ratadruku	X					X	\$800.00	RHA Needed
9	Soa Village	Waisake N	X					X	\$2,000.00	RHA Needed
10	Soa Village	Samuela D	X					X	\$2,000.00	RHA Needed
11	Soa Village	Timoci N	X					X	\$2,000.00	RHA Needed
12	Navolau No. 1	Ame Bauli	X					X	\$200.00	RHA Needed
	GRAND TOTAL		12	0	0	0	0	12	\$13,000.00	

FLOOD DAMAGE ASSESSMENT REPORT 2009

STRUCTURAL COMPLETELY DAMAGED

DISTRICTS: BA

NO	VILLAGE/SETT	NAME OF VICTIMS	TYPES OF HOUSES				DAMAGES		ESTIMATE COSTS	REMARKS
			WOOD	CONC	CORR	BURE	PARTLY	COMP		
1	Nubutolu	Nemani Driu	X					X	\$10,000.00	RHA Needed
2	Sagunu	Naluvea Nasilasila	X					X	\$10,000.00	RHA Needed
3	Sagunu	Eddie Lockinton			X			X	\$10,000.00	RHA Needed
4	Sagunu	Viliame Vunisina			X			X	\$10,000.00	RHA Needed
5	Sagunu	Sanaila Qoro	X					X	\$10,000.00	RHA Needed
6	Toge Village	Kaliova Deu	X					X	\$10,000.00	RHA Needed
7	Toge Village	Semi Nawai			X			X	\$10,000.00	RHA Needed
8	Talaiya	Umar Ali	X					X	\$10,000.00	RHA Needed
9	Talaiya	Lorima Ratuloa	X					X	\$10,000.00	RHA Needed
10	Toge Village	Peni Naulu	X					X	\$10,000.00	RHA Needed
11	Toge Village	Orisi Kubu	X					X	\$15,000.00	RHA Needed
12	Toge Village	Jone Nagiri	X					X	\$15,000.00	RHA Needed
	GRAND TOTAL		9	0	3	0	0	12	\$130,000.00	

LOOD DAMAGE ASSESSMENT REPORT 2009

STRUCTURAL DAMAGE

DISTRICTS: NAVOSA

NO	VILLAGE/SETT	NAME OF VICTIMS	TYPES OF HOUSES				DAMAGES		ESTIMATE COSTS	REMARKS
			WOOD	CONC	CORR	BURE	PARTLY	COMP		
1	Calcutta Sett, Draiba	Qorowale Tuvou (II)			X			X	\$2,500.00	
2	Sautabu Village	Ilisapeci Toma	X					X	\$5,000.00	
3	Sautabu Village	Sowane Qoro	X					X	\$5,000.00	
4	Nukuilau Village	Tomasi Qiokata	X					X	\$2,000.00	
5	Nukuilau Village	Ropate Matalau	X					X	\$2,000.00	
6	Nukuilau Village	Amenio Neioko			X			X	\$3,000.00	
7	Nukuilau Village	Joseva Vunibobo			X			X	\$3,000.00	
8	Nukuilau Village	Sevuloni Mocenacagi			X			X	\$2,000.00	
TOTAL			4	0	4	0	0	8	\$24,500.00	

or Taskforce on Flood

In view of the urgency to rehabilitate and rebuild, a Taskforce comprising of Permanent Secretaries is to oversee the rehabilitation and rebuilding work. The Taskforce will comprise of:

- [Prime Minister's Office\(Chair\)](#)
- National Planning
- Finance
- Agriculture
- Works
- Provincial Development
- [Public Utilities](#)
- Local Government, Urban Development & Housing
- Health

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The purpose of this Taskforce is to organise a systematic approach in the implementation of rehabilitation and rebuilding process/programme of affected critical areas of the country, in particular the need to make immediate decisions to address the urgent needs of those affected and are facing hardships and are in need of basic utilities, housing assistance, education assistance and food rations.

In carrying out its duty, the taskforce is responsible for:

1. Assessing and analysing damage reports and overall disaster situation;
2. Quantifying the total cost of damages/destructions in monetary terms;
3. Facilitate the quick determination of emergency relief needs for possible aid support and the recovery/rehabilitation program;
4. Preparing a detailed reports of affected sectors of the country;
5. Allocate assistance to affected areas and report accordingly;
6. Report on all incoming funds for rehabilitation and assistance from Donor Countries, International Organisations, Non Government Organisations, Business sector, public appeals and Government;
7. Establishing/creating a clear roadmap to carryout the implementation of rehabilitation and rebuilding programmes based on priority sectors; and Report to Cabinet through the DSC all activities undertaken as necessary and on completion of the rehabilitation and rebuilding programme including the funds utilised.