



National Recovery and Re-construction Plan

“Building back better”

(September 21, 2009 Earthquake)

Implementation Period: 2009-2013

**Department of Disaster Management
Ministry of Home and Cultural Affairs
Royal Government of Bhutan**

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Ministry of Home & Cultural Affairs
Royal Government of Bhutan
Tashichho Dzong, Thimphu



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24 March 2010

Foreword

The September 21st, 2009 earthquake in Eastern Bhutan, has been the most devastating disaster faced by Bhutan in recent times. The earthquake claimed 12 lives and damaged 4950 rural homes, 117 schools, 45 BHUs, 29 RNR centers, 26 Gup offices and also caused massive damage to cultural assets. Estimated loss and damages amount to Nu. 2501 million.

In the wake of the disaster, concerned Dzongkhag Administrations responded effectively despite the lack of experience in dealing with disasters and having limited capacity. On His Majesty's command, armed forces were deployed immediately to assist in ye relief and response activities and the Gyelzim's Office was on the ground delivering *Semso* to the bereaved and affected families.

Deep concern was shown at the highest levels and His Majesty the king has personally visited all the affected Dzongkhags providing them moral support and awarded *Kidu* to all affected families. His Majesty the Fourth King and Their Majesties the Queen Mother also visited the affected Dzongkhags and provided affected families with *Kidu*.

The Hon'ble Prime Minister's visit to all the affected Dzongkhags, soon after the event, enabled prioritized and organized decisions and activities for effective response and relief and clear guidance from the government for recovery and re-construction. Following Lyonchhen's visit, I personally headed and set up an Operations and Relief Camp in Trashigang, which has facilitated the receipt and disbursement of relief materials to affected families.

Together with the support of our development partners, the RGoB has tried to reach out and provide whatever relief possible to all affected families. Towards this end we are grateful to the proactive and exemplary support and cooperation we received from our development partners in mobilizing relief materials and resources for re-construction and the overwhelming support and contributions, made by both internal and external, towards His Majesty's *Kidu* Fund.

Through this experience the government has further realized the importance of reducing disaster risks and enhancing response preparedness. There is need to make conscious efforts to mainstream Disaster Risk Reduction (DRR) concerns into development plans and policies and to have a uniform and unified approach during response and recovery phases.

The National Recovery and Re-construction Plan is consolidated effort made by all concerned sectors, agencies and concerned Dzongkhag Administrations. Three National Stakeholder Meetings and intensive consultation with Sector and Dzongkhag focal persons were instructed to prioritize and finalize re-construction activities for each sector under each of the affected Dzongkhags.



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Based on detailed assessments carried out by concerned sectors and on international best practices, the Royal Government is now in earnest to not only implement the re-construction activities but to also incorporate earthquake resilient features and techniques and to “Build Back Better” through all our re-construction efforts. The Ministry of Home and Cultural Affairs looks forward to the successful implementation of the Plan with continued support from all stakeholders.

I would first of all like to commend the Department of Disaster Management for facilitating the whole process to formulate the National Recovery and Re-construction Plan. I would like to also acknowledge the immediate response and relief efforts made by concerned Dzongkhag Administrations. Their concerted efforts resulted in the provision of immediate relief to affected families and consolidation of information critical for damage and loss assessments.

On behalf of the Royal Government and the Ministry of Home and Cultural Affairs I would like to express our deep appreciation and acknowledge the instant and continuous support provided to us by our development partners, especially the UN family, in mobilizing much needed resources and relief materials and supporting the Joint Rapid Assessment.

The Ministry of Home and Cultural Affairs would also like to acknowledge here all the cooperation and support rendered by concerned sectors and agencies, especially the contributions and efforts made by Sector Disaster Management Focal Persons. Detailed assessments carried out by the sectors have helped us immensely in further estimation and in prioritizing our re-construction activities.

I hope that the Plan will serve the intended purpose of a road map for re-construction to be carried out in the affected Dzongkhags and we look forward to continued cooperation and support from all stakeholders in ensuring successful implementation of the Plan.

Minjur Dorji
Minister for Home and Cultural Affairs

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1. Background on the event

The earthquake of 6.3 magnitude on the Richter Scale, that struck Eastern Bhutan, with its epicenter in Narang, Mongar, on September 21, 2009 at 2:53 p.m. has been the most damaging disaster that Bhutan has experienced in recent times. The earthquake lasted for 95 seconds and had a shallow depth of 10 Km in and around the epicenter. The earthquake has been confirmed as from the Main Central Thrust, which is the nearest reverse fault to the epicenter (***Preliminary assessment report of RGoB Technical Team is attached as Annexure I***). More than 100 aftershocks and two major earthquakes of 5.3 and 5.5 magnitude on the Richter Scale (i.e. 29th October, 2009 and 31st December, 2009 respectively) have been recorded after the September 21, 2009 earthquake, which have caused further damages to rural homes and other properties.

2. Loss and Damages

The September 2009 earthquake claimed 12 lives and caused damages worth Nu. 2501 Million (***As per the Joint Rapid Assessment Report (RGoB/WB/UN)***). The six Eastern Dzongkhags were severely affected and in total 13 of 20 Dzongkhags have reported damages, such as:

	Sector	Approximate Loss (Nu. Million)	Approximate loss (USD Million)
1	Shelter	1119	23.3
2	Education	594	12.3
3	Cultural Heritage	650	13.5
4	Health	124	2.6
5	Govt. and Public Offices	14	0.3
	Approx. Total Loss	2501	52

(Joint Rapid Assessment Report)

As per the damage assessment reports received from the affected Dzongkhag Administrations, as of 16th October 2009, (***Annexure II***)- 4950 rural homes, 117 schools, 45 BHUs, 29 RNR centers and 26 Gup offices have been damaged or affected. The earthquake also caused massive damage to cultural assets with 539 Chortens, 281 Lhakhangs and 8 Dzongs as reported.

3. Emergency Response and Relief

In the field, the Dzongkhag Administrations immediately undertook rapid assessment and provided immediate relief to the affected families, wherever required. An emergency Lhengye Zhungtshog Meeting was held on 22 September, 2009 to discuss the initial assessment report on casualties and damages.

As an immediate response to the disaster, His Majesty the King awarded ex-gratia assistance to each bereaved family and to injured persons. Teams from His Majesty's Welfare Office (Gyalpoi Zimpoen's Office) and personnel from the Royal Bhutan Army were deployed to provide immediate rescue, aid and relief to the affected families.

The Hon'ble Prime Minister visited the six affected Dzongkhags from 23-30 September, 2009 and on his return provided a briefing to all Development partners in Bhutan on October 2, 2009. An emergency relief and recovery camp was set up in Trashigang, supervised by the Hon'ble Lyonpo, Ministry of Home and Cultural Affairs.

A Stakeholder Meeting chaired by the Cabinet Secretary was held on 3rd October, 2009, to review the damage reports from affected Dzongkhags and to determine damage categories for rural homes. Four categories, based on the technical team's report were decided, such as: "Beyond Repair, Major

Repair, Partial Repair and Minor Repair”.

His Majesty the King visited the affected Dzongkhags to extend his support, sympathies and encouragement to the affected people and also awarded Kidu/Soelra to the affected families based on the four damage categories.

The Royal Insurance Corporation of Bhutan expedited the payment of insurance compensation for damaged rural homes that were insured under the Rural Housing Insurance Scheme.

(RGoB's Response and Relief Efforts – Annexure III)

On the 25th of September, the Ministry of Home and Cultural Affairs organized a meeting with the Resident Coordinator of the UN System, the Ministry of Foreign Affairs, Ministry of Finance, the Gross National Happiness Commission and the Department of Disaster Management, chaired by the Secretary, MoHCA. The Meeting was mainly held to formally appeal for support in providing fast relief, funds and technical assistance. As a result of the Meeting, the Joint Rapid Assessment Team comprising of the RGoB, the UN and the World Bank was deployed into the field to conduct damage assessments.

The UN family in Bhutan and other donor agencies responded immediately, providing emergency relief supplies such as blankets, emergency family kits, tents, tarpaulin sheets, hygiene kits, tools and equipment to facilitate immediate recovery (**Relief materials received and disbursed – Annexure IV**). Also, with support from the UN and the World Bank, a Joint Rapid Assessment team was fielded from September 30 – October 14, 2009 and its report submitted to the Royal Government to facilitate further mobilization of funds and guide the recovery and reconstruction process. As per the Joint Rapid Assessment Report, total approximate expenditure on Relief and Early Recovery measures is estimated at Nu. 87.1 Million.

	Expenditure Head	Approximate Cost (Nu. Millions)	Approximate cost (USD Million)
1	Temporary shelter/ Private dwellings	40.00	0.83
2	Livelihood support	15.00	0.31
3	Education	18.90	0.39
4	Health	10.00	0.20
5	Water and sanitation	1.40	0.03
6	Psychosocial measures	1.80	0.04
	Total cost	87.10	1.80

(Joint Rapid Assessment Report)

The Department of Disaster Management under the Ministry of Home and Cultural Affairs provided continuous updated and consolidated reports to the Government and coordinated with all the concerned Sectors/Agencies and the Donor agencies on the mobilization of relief materials and resources.

4. Recovery and Re-construction Efforts

The Ministry of Finance, Foreign Affairs and the GNH Commission are still in the process of mobilizing funds from bilateral and multilateral agencies for the re-construction process. So far, the Government has been able to mobilize only a little over Nu. 400 Million (**Resource mobilization status – Annexure V**).

As an effort to meet immediate restoration, livelihood support and capacity needs for the two major

disaster events – the floods in May 2009 and the 21st September Earthquake - the UNDP has formulated a project with the RGoB – the Bhutan Recovery and Re-construction Project, to the tune of 450,000 USD (including 50,000 C\$ from CIDA). The Project has three Components:

1. *Support restoration of social and community services,*
2. *Support regeneration of rural livelihoods and to*
3. *Build recovery and response capacities.*

The Joint Rapid Assessment Report (RGoB/World Bank/UN) has projected the total reconstruction cost at Nu. 2005 Million, including the cost of reconstruction for rural homes.

	Head of Expenditure	Approximate cost (Nu. Millions)	Approximate cost (USD Million)
1	Permanent Shelter/Housing	391	8.14
2	Cultural Heritage / Monuments	651	13.56
3	Education	653	13.60
4	Health	136	2.83
5	Water and Sanitation	46	0.96
6	Govt. Public Offices	128	2.67
	Total cost	2005	41.70

(Joint Rapid Assessment Report)

4.1 Formulation of the Recovery and Re-construction Plan

As there is need for a unified and multi-sectoral strategy, to effectively and urgently undertake the re-construction process, three National Stakeholder Meetings (***Main Resolutions of the Meetings attached as Annexure VI***) have been conducted to facilitate formulation of the Comprehensive National Recovery and Re-construction Plan. The Plan, Implementation Strategies and the Proposed Coordination Mechanism were presented in the 60th Session of the Lhengye Zhungtshog on 29th December, 2009. The main Resolutions of the three Stakeholder Meetings and directives of the Lhengye Zhungtshog, (to carry out the Recovery and Re-construction activities in the field) were as follows:

- Concerned Sectors would take the lead role in implementing all recovery and re-construction activities in their concerned areas. The Sectors are to finalize their Dzongkhag-wise prioritized activities and work in close coordination with concerned Dzongkhag Administrations, the GNH Commission and the Ministry of Finance to re-appropriate the required fund, as much as possible, from within the 10th FYP budget outlay.
- A Recovery and Re-construction Coordination Mechanism (***attached as Annexure VII***) has been adopted to oversee implementation of recovery and re-construction activities as planned.

4.2 Detailed Assessments and Prioritization of Re-construction Activities

Concerned Sectors have completed detailed assessments and cost estimates for each re-construction activity and have prepared Sector specific Recovery and Re-construction Plans. Considering budget constraints, the 10th FYP period for implementation and the implementation capacities of the concerned

Dzongkhag Administrations, the Sectors were directed to carry out detailed assessments and conduct stringent prioritization exercises.

a. Education

The Ministry of Education formed a working group within the Ministry and fielded three Assessment teams, consisting of 9 engineers from the School Planning and Building Division to cover 6 Dzongkhags. The total cost estimated for the re-construction of 75 prioritized schools is Nu. 299.491 Million. Schools requiring minor or partial damages have not been included in the report and would be repaired through the regular maintenance budgets of the respective Dzongkhags.

Apart from committed funds for the Education sector (Nu. 87.634 Million), the Ministry is re-appropriating Nu. 99.497 Million from within the 10th FYP budget outlay. All re-construction activities will be carried out by the respective Dzongkhags with the designs and estimates provided by SPBD.

The Ministry will be responsible for the construction activities at NID, Khaling and will form a Project Management Unit in SPBD for re-construction activities under the ADB project. The Ministry, based on observations made by the Assessment teams will ensure that all re-built CPS will be of Ekra (cement mortar) structure with appropriate water and sanitation facilities.

b. Health

The Ministry of Health conducted detailed assessments and have prioritized the re-construction of 4 BHUs, 3 ORCs and re-construction activities for the Trashigang, Mongar and Lhuentse hospitals within a total estimated budget of Nu.68.019 million. The Ministry of Health has reviewed the guidelines for BHU and ORC construction and new designs and revised guidelines incorporating seismic- resistant features. The Ministry has mobilized funds for the repair and re-construction of the two hospitals in Mongar and Lhuentse.

Out-reach health services; have not been hampered (due to damages to ORCs) as ORC services are being continued out of the village Tshokpas' homes. The Ministry is also planning to conduct health advocacy and house to house visits for psycho-social/ trauma counseling in the most affected areas.

c. Cultural Assets

The Division for Conservation of Heritage Sites, Department of Culture (DoC), MoHCA conducted detailed assessment of cultural assets damaged during the earthquake. Two Joint Assessments with the UN were carried out – with UNISDR experts and the UNESCO Post-Earthquake Mission Team.

The DoC along with the concerned Dzongkhag Administrations have prioritized 215 lhakhangs to be re-constructed within the 10th FYP period. The estimated cost of re-construction has been brought down from Nu. 650 million (as estimated in the Joint Rapid Assessment Report) to approximately Nu. 176.481million.

As per the Resolutions of the three Stakeholder Meetings, the DoC is considering the re-construction of only important and prioritized Lhakhangs, on need basis, in the 10th FYP period. Repair and maintenance of Chortens and Lhakhangs requiring minor repairs will be undertaken by the respective gewogs and communities, as per the usual practice. As instructed by the Home Minister, the implementation of reconstruction activities in the Cultural Sector will be bifurcated into 2 different modalities for implementation. In the case of Government and Community Lhakhangs, the implementation will be carried out like other regular activities by the Dzongkhag Administrations.

In case of Private Lhakhangs, the budget proposed will be disbursed to the concerned Dzongkhag Administration. It is to be noted that, although, reconstruction of Private Lhakhangs will be owner driven, the Dzongkhag Administrations shall monitor the implementation of the activities and budget releases will be made in phases based on the physical progress made.

d. Gup's Office

As per Assessment reports received by the Department of Local Governance, 29 Gups offices have suffered damages. In coordination with the Dzongkhag Administrations, re-construction of 16 Gup's offices, estimated at Nu. 27.39 million will be implemented in the 10th FYP period. 13 Gup offices reporting minor repairs will need to be carried out by respective Dzongkhags and Gewogs through their normal maintenance budgets.

e. Agriculture and Forest Services

As per the Assessments reports received from the Dzongkhags, the Ministry of Agriculture will be reconstructing the damaged RNR structures and Government Offices in Trashigang, Mongar, Zhemgang and Lhuentse Dzongkhags and by the respective park services. The Ministry will be re-appropriating the total requirement of Nu. 40.095 from within the 10th FYP activities funded by the RGoB, GOI and the AMEPP program funded by the International Fund for Agricultural Development (IFAD).

f. Royal Bhutan Police

Damages incurred by the Royal Bhutan Police during the 21st September, 2009 earthquake was not assessed during the Joint Rapid Assessment as most of the damages occurred in remote outposts and took time to be reported. Also, the Royal Bhutan Police was more involved in responding to the disaster and supporting the affected Dzongkhags.

However, as reports started flowing in, the Royal Bhutan Police carried out a Departmental Assessment by a technical team covering both physical verification and structural analysis. The damaged infrastructures were mainly reported in three Dzongkhags – Trashigang, Mongar and Pemagatshel. After prioritization of re-construction activities, the total estimated cost for re-construction of major and urgent works to be implemented in the 10th FYP period amounts to Nu. 65.28 million.

The Recovery and Re-construction plans of each sector are aligned to be implemented within the 10th FYP period (2009-2013). Each sector has prioritized their activities accordingly to reflect budget needs, fund availability and resource gaps for each financial year. Prioritized activities for each year are to be incorporated in the concerned Dzongkhag Administrations Annual Budget and implemented accordingly as per the RGoB Financial Rules and Regulations. (*RGoB's Recovery and Re-construction Efforts – Annexure VIII*).

4.3 Priority areas for Recovery and Re-construction

The priority for the Government, apart from facilitating the re-building of rural homes is to restore and reconstruct vital social service infrastructures like Schools and BHUs and to restore water supply and sanitation facilities. The destruction of cultural assets, which are vital to the local communities, and the ways and means to re-build them are also a major cause of concern for the Government.

Another concern is to ensure source of livelihoods for the affected families during the whole reconstruction process and to ensure that all reconstruction efforts consider disaster risk reduction measure, especially incorporation of seismic resilient features, designs and construction techniques.

i. Re-construction of Rural Homes

The September 21st Earthquake has affected 4950 rural homes in the six Eastern Dzongkhag of Bhutan, and since then there have been more than 100 aftershocks recorded. The rural population affected in the event are the poorest section of the Bhutanese population with very less or no capacities to re-build their homes and their lives. To support re-building of damaged rural homes, the RGoB has

facilitated expediting the payment of Insurance compensation and is in the process of mobilizing material support (CGI sheets, timber etc.). The RGoB is also in the process of training rural masons and carpenters in the incorporation of earthquake resilient features and building techniques during re-construction.

Material support for re-building of rural homes is extremely important as affected families at the moment are living under tarpaulin sheets and in tents. Also, re-building of rural homes need to be completed before the onset of the next farming season and the monsoon rain.

The UN system has committed to support part of the of CGI sheets requirement (out of 60,000 sheets requisitioned). However, the RGoB is still trying to mobilize funds to procure the remaining CGI sheets. Wherever necessary, as per the Royal Command from His Majesty the King, the RGoB is also in the making royalty-free timber available to the affected families for rural home construction.

CGI Sheet Requirement

	Dzongkhag	CGI Requirement	Remarks
1	Trashigang	18,314	Based on assessment carried out by the Dzongkhags and needs of the affected people (as of 18 February, 2010)
2	Mongar	11,051	
3	Trashiyangtse	2130	
4	Pema Gatshel	926	
5	S/Jongkhar	60	
6	Lhuentse	1260	
	Total	32,953	

Timber Requirement

	Dzongkhag	No. of Households	Standing trees	Remarks
1	Trashigang	530	3180	Most of the houses been re-built by re-using old timber
2	Mongar	214	1284	
3	Trashiyangtse	165	990	
4	Pema Gatshel	Nil	Nil	
5	S/Jongkhar	13	78	
6	Lhuentse	26	156	
	Total	948	5688	

ii. Sector-Specific Re-construction Plans

In accordance with the resolutions of the Stakeholder Meetings and Lhengye Zhungtshog directives, concerned Sectors have prioritized year-wise re-construction activities in accordance with the 10th FYP period. The re-construction activities have been discussed and prioritized in close consultations with the concerned Dzongkhag Administrations, who would be the actual implementing agencies. The Sectors have also re-prioritized their 10th FYP activities accordingly and re-appropriated budget from the 10th FYP budget outlay as far as possible.

Table 1: Estimated cost for Recovery and Re-construction (Sectors and Financial Years)

	Sector	Total Estimated Budget (Nu. Million)	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14
1.	Education	321.014	57.889	163.719	75.825	24.481	
2.	Health	68.019	0.729	44.514	22.776		
3.	Gup's Office	27.389		25.139	2.250		
4.	Culture	176.481	25.481	100.653	45.997	3.650	0.700
5.	RBP	65.219	13.590	47.408	4.221		
6.	Agriculture and Forest Services	40.095	20.478	17.649	1.968		
	Total	699.117	118.168	399.081	153.037	28.131	0.700

Table 2: Estimated cost for Recovery and Reconstruction (Dzongkhags and Sectors)

	Dzongkhag	Total Estimated Budget (Nu. Million)	Culture	Health	Education	Local Governance	RBP	Agriculture and Forest Services
1.	Trashigang	273.506	55.555	28.830	133.605	0.640	54.876	
2.	T/Yangtse	69.460	27.231		35.529	6.700		
3.	Mongar	203.981	33.820	38.689	118.477	11.250	1.746	
4.	Lhuentse	21.464	11.650	0.500	9.314			
5.	P/Gatshel	87.775	48.050		23.802	7.326	8.597	
6.	S/Jongkhar	1.363	0.175		1.188			
7.	Punakha	0.723				0.723		
8.	Gasa	0.750				0.750		
	Total	699.117	176.481	68.019	321.914	27.389	65.219	40.095

(List of Sector and Dzongkhag wise Recovery and Re-construction Activities attached as Annexure IX).

4.4 Resources: Needs, Mobilized and Allocation

The resource requirements for implementation of the NRRP is funded through the contributions and support of friendly countries, Donors, the UN system and re-appropriations of budget carried out by the respective sectors from within the 10th FYP budget outlay.

The total budget requirement for implementation of the NRRP is Nu. 699.117 million. This is being met through re-appropriation of Nu. 150.320 million from the 10th FYP budget and the rest is being funded through the contributions received in the aftermath of the disaster to assist in recovery and reconstruction. *(The details of these sources of funds and allocations are presented in the Table 3)*

One major reconstruction activity in the Culture sector remains un-funded; the possibility of funding for the activity will be explored.

Funds which remain un-allocated will be used as a contingency fund to support interim/temporary measures during the reconstruction time frame and also for meeting the changes in costs due to market inflation etc.

Table 3: Resources Mobilization and Allocation

Source of Funds	Cash	Indicative	FIC	Education	Health	Culture	Police	Agriculture	Local Governance
Government of India	250,000,000.00		2,560	33,871,854.64	31,026,000.00	93,254,519.88	51,628,879.73		27,388,799.00
Associazione Amici Del Bhutan	13,000.00		2,527						
Government of the State of Kuwait	80,949,000.00		2,528	30,165,668.08		36,990,688.65	13,589,976.98		
Government of Thailand	522,000.00		2,529						
Government of Singapore	1,411,000.00		2,533			1,400,000.00			
WHO	89,000.00								
Sponsors of Buddha Dordenma Project	10,099,000.00		2,540			10,050,000.00			
UNICEF	827,000.00		2,215						
Government of France	694,000.00								
UNESCO		1,150,000.00				1,150,000.00			
Prince Claus Fund		4,200,000.00	2,570			4,100,000.00			
Liasion Office of Denmark	27,435,328.00		2,576	27,064,499.72					
Bhutan Foundation	536,000.00		2,570			536,000.00			
Global Facility for Disaster Recovery and Re-construction (GFDRR)		23,000,000.00			23,000,000.00				
Korean Organization		586,000.00							
Reappropriation from 10th FYP				99,496,715.88	10,729,000.00			40,095,000.00	
Activities funded through the BRRP with support from UNDP/CIDA			2,566	8,614,319.69	3,264,000.00				
Activities funded through the ADB Project				87,007,683.41					
Unfunded Activities						29,000,000.00			
Australian support through UNICEF				13,269,784.56					
Government contribution to ADB supported projects				22,423,500.00					
TOTAL				321,914,025.98	68,019,000.00	176,481,208.53	65,218,856.71	40,095,000.00	27,388,799.00

The details of allocation of funds received towards specific reconstruction activities under the National Recovery and Reconstruction Plan is attached as Annexure IX.

5. Recovery and Re-construction Strategy

Along with the Dzongkhag Administrations, re-construction activities under each Sector have been prioritized for the next three years of implementation of the 10th FYP. The other activities, after being prioritized according to the category of damages are to be implemented through the 10th FYP maintenance budgets and some activities would be carried forward into the 11th FYP. As per the resolutions of the Three Stakeholder Meetings and directives of the Lhengye Zhungtshog, the following strategies will be adopted:

a. Rural Home Re-construction

Re-construction of rural homes will be owner driven. His Majesty the King had provided “kidu-soelra”/ ex-gratia assistance to all affected families, besides the payment of highly subsidized rural home Insurance scheme by the RGoB. Further support of building materials (timber and CGI sheets) are being mobilized and provided to affected families through the concerned Dzongkhag Administrations, on need basis.

The Technical Working Group, as proposed in the agreed Coordination Mechanism, has discussed and finalized training materials and curriculum for masons and carpenters in the affected Dzongkhags. The training has been conducted at three venues (i.e. Trashigang, Mongar and Pemagatshel) for over 350 masons and carpenters, from 24 February – 17 March, 2010. The training aims to provide widespread earthquake safety advocacy/ awareness and ensure that rural home re-constructions incorporate earthquake resilient features and designs, in order to “build back better” whatever has been damaged by the earthquake and prevent such catastrophes in the near future. The training will be conducted in the other Dzongkhags in the times to come.

b. Sector Plan Implementation

- All re-construction activities would be incorporated in the concerned Dzongkhag Administration’s 10th FYP.
- The funds required for the implementation of the prioritized activities by each Sector will be met from the pool of resources (unspecified funds) mobilized so far. Education and Health Sector activities will be accorded higher priority.
- Cultural assets will be re-constructed and have been prioritized based on the historical and significance and community’s needs. Government and Community Lhakhangs will receive higher priority over Private lhakhangs during implementation. Private lhakhangs will be provided with partial funding from the Government to support rebuilding by the owners. Wherever possible, the Government will encourage merger of lhakhangs and chortens during the re-building process, on need basis.
- Budget for other priority re-construction activities will be re-appropriated from within the 10th FYP budget outlay.
- Funds for re-construction activities will also be explored under the Small Development Programme Grant of the Government of India (GoI).
- Concerned sectors will render full support to the concerned Dzongkhag Administrations in implementing the re-construction activities as prioritized in the Sector plan/ National Recovery

and Reconstruction Plan.

- The Resource Mobilization Working Group will be responsible for and work towards further mobilization of resources and re-construction materials.
- The Technical Support Working Group will be responsible for conducting the training of masons and carpenters in earthquake safety and resilient techniques in the affected areas and in replicating the training in other Dzongkhags, as deemed fit.
- Sectors shall take the lead in monitoring implementation of the re-construction activities and should ensure the availability of travel budget for monitoring and supervision, from within their sector's annual budget. Similarly, the concerned Dzongkhag Administrations should ensure appropriate travel budget to facilitate and monitor the implementation and of the activities. The Ministry of Finance to consider and incorporate budget requirements accordingly as proposed by the Dzongkhag Administrations and Sectors.
- A contingency fund would be kept aside to fund temporary or, interim measures/ arrangements (especially in the Education Sector) and to meet up the increased construction costs due to inflation or other contingencies during the implementation period of the Reconstruction Plan.

5.1 Fund Flow and Reporting Procedures

Dzongkhag Administrations

Based on the Sector's and Dzongkhag's priorities, the concerned Dzongkhag Administration is required to:

1. Incorporate the re-construction activities in their Plan for the financial year.
2. Submit requisition to implement the activities, along with detailed Estimates and Work Plan to the Department of Disaster Management, with information to concerned Sectors.
3. Implement and monitor the activities as per the Work Plan and submit Completion reports for each activity to the DDM for records and reporting to the Steering Committee from time to time.

Department of Disaster Management, Ministry of Home and Cultural Affairs

The Department of Disaster Management will ensure:

1. The requisitions put forth by the Dzongkhag Administrations are in line with the Sector Re-construction Plans and accordingly recommend to the Department of National Budget for incorporation in the 10th FYP. The Department of National Budget shall accordingly recommend to the Department of Public Accounts for release of funds.
2. Monitoring of the activities implemented by the Dzongkhag Administration as per the submitted Work Plan.
3. Further reporting to Donor agencies, as required.
4. Coordination with the concerned Dzongkhag Administrations and Sectors on resource availability, gaps, and possible problems encountered during the implementation of the re-construction activities etc. and submit Progress reports to the Steering Committee as desired from time to time.

Ministry of Finance

The Department of National Budget shall be responsible for incorporating re-construction activities in the 10th FYP and the Department of Public Accounts will ensure timely release of funds as per the recommendation of the DDM and monitor financial progress of the re-construction activities.

GNH Commission

The GNHC shall facilitate in fund mobilization in consultation with key stakeholders (Donors, MoF, MFA etc.) and also facilitate the prioritization of re-construction activities within the Dzongkhag and the 10th FYP budget outlay.

Steering Committee

The DDM shall report to the Steering Committee, once every three months on:

- Progress of the re-construction activities
- Activities undertaken and recommendations made by the two Working Groups

The Steering Committee shall provide the necessary directives, facilitate implementation of activities as per the National Recovery and Re-construction Plan and direct the DDM, (as its Secretariat) to furnish any desired reports, updates or information for further submission to the Hon'ble Prime Minister's Office/ Lhengye Zhungtshog, as required.

Needless to say, the Directives/ Instructions given by the Lhengye Zhungtshog on its 60th Meeting on the 29th December 2009 (also given in writing by the Cabinet Secretary vide letter No. C-3/9 55 dated 4th February 2010) and the Resolutions of the three Stakeholders' Meetings, have to be invariably complied with by all the concerned Sectors/ Agencies, in order to successfully and effectively implement the Reconstruction/ rebuilding activities of damaged rural homes, Government/ Public Infrastructures, Service Delivery Centres, Offices, Schools, BHUs etc and ease the inconvenience, suffering of the affected communities in the aftermath of the disaster and restore the lost confidence, stability, tranquility and happiness of the affected people in the land of Gross National Happiness.

Annexure I

Preliminary Assessment Report

Preliminary Assessment of damage on houses due to 21st September 2009 Earthquake in the eastern Dzongkhags and Measures

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After the earthquake a team lead by the Hon'ble Prime Minister visited the 6 eastern Dzongkhags to carry out the preliminary assessment of the damages caused by the earthquake and also to console the victims from 23rd to 29th September 2009. The technical team comprising of the following members accompanied the Hon'ble Prime Minister.

1. Yeshi Dorji, officiating Director General, Department of Geology and Mines, MoEA.
2. Tshering Wangdi (B), Chief Engineer, DoR, MoWHS
3. Rinzin Namgyel, Chief Engineer, SQCA, MoWHS

The earthquake took place at 2.53PM having a magnitude of 6.3 on the Richter scale with a focal depth of 10km in and around Narang area under Mongar Dzongkhag as reported by USGS (America). From the fault plane solution the earthquake has been found to be along a reverse fault. The only reverse fault near to the epicenter is the Main central Thrust. Therefore the earthquake is confirmed to be from this fault.

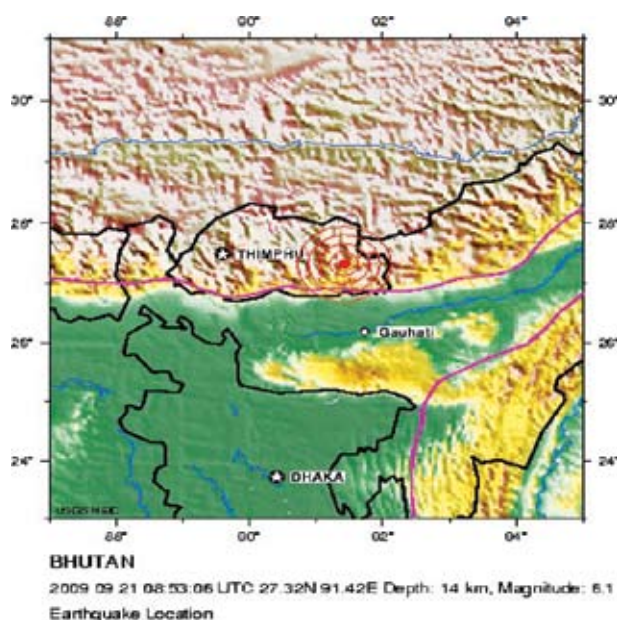


Fig. 1 Earthquake intensity

The local people in the affected areas were consulted on the frequency of the earthquake wherein it was reported that they felt three main shocks with very short intervals followed 4 to 5 after shock tremors whose intensity was lower than the main tremor. The tremors were felt throughout the country with intensities decreasing as we move further away from the epicenter as shown in Fig. 1.

All the damages have been reported to be caused by the main event. A pattern on the damage has been observed in the affected area where in the severe damages on the over-riding side was mostly found on the ridge tops and on the underlying side was in the valleys.

Observation:

The following were observed during the site visits of the affected areas.

- 1) No tension cracks on the ground were observed except in Drametse area which was learnt to be in the fill material.
- 1) No major landslides observed in the affected area.
- 2) Few boulders were observed to be detached from the rock and causing damage to the houses.
- 3) Rocks slides were also observed along the highway, district roads, feeder roads and farm roads.
- 4) No ground settlements were observed.
- 5) No ruptures on the surface had been observed except for localized tension cracks where the slope angle suddenly increases almost too vertical.
- 6) The houses were predominantly made of random rubble masonry with mud mortar and having regular rectangular shape.
- 7) The failures in the houses were mostly observed at the upper part of the single and doubled storied traditional architecture - opposite to the timber Rabsey façade due to irregular distribution of masses (fig. 2).

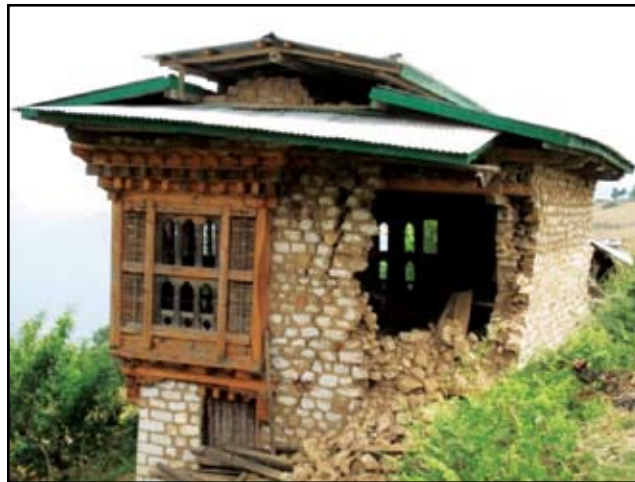


Fig. 2

Failure of corner walls opposite to the rabsey facade

- 8) Two layered walls with unscreened mud mortar and smaller stone infill (fig. 3)



Fig. 3

walls with unscreened mud mortar and smaller stone infill

- 9) No through/bond stones.
- 10) Inadequate inter locks.



Fig. 4

Absence of through and bonding stones

- 11) Failures are usually observed in the additions and alterations (fig. 5).



Fig 5

Failure at the connection

- 12) Several cracks and large openings are observed (fig. 6)



Fig. 6

Large cracks

13) Failures in the timber floor joist due to lack of overlap.



Fig. 7

Failure in timber floor joist

14) Stone walls added above the roof cornices



Fig. 8

Addition of stone wall on the cornices

15) Use of small sized stones (fig 9).



Fig. 9

Use of small stones

- 16) Openings such as doors and windows were bigger than the walls (fig. 10)



Fig. 10

Large openings

- 17) Absence of bands, vertical bars at corners and junctions.
18) No standard codes for rural houses and also ignored the traditional construction techniques.
19) The recently completed Government buildings (BHU and school) were completely damaged. (fig. 11)



Fig. 11

Damaged BHU building at Narang

- 20) Few of the Government constructed buildings (Gup office and schools) located in the highly damaged area have survived without any cracks. (fig. 12)



Fig. 12

undamaged Gup office

- 21) A house constructed with cement mortar and proper interlocking of stones did not have significant crack where as the house with the mud mortar has been severely damaged.
22) Corner stones used in all the buildings as required for earthquake resistance.
23) Use of timber band beneath Rabsey.

Deductions:

Based on the above observations it is deduced that






- 1) The tension cracks in Drametse were within the fill which is not well compacted and thereby developing the cracks as they become dense due to vibration.
- 2) Few localized openings on the ground have developed due to lack of toe support as the slope abruptly steepens.
- 3) The failures in the houses were due to the undermining of traditional good practices of construction, lack of standards, codes and guidelines for the rural houses. More emphasis has been placed on the aesthetics, faster construction and economy without realizing the risk that they are exposed to.
- 4) Since the houses of single and double storied have failed as expected near to the epicenter due the ground vibration and the buildings resonance superimposing on each other.
- 5) The failures mostly were observed in the upper part of the houses as they suffer more sway at the upper part coupled with irregular distribution of mass.
- 6) Two layered walls with mud mortar and small stone infill is a very weak structure in absence of through stone and proper bonding. The walls are expected to be a monolithic member where as the double layering makes the walls act as two independent members, thus weakening the structure.
- 7) Some of the nonstructural failures have occurred in later modifications and alterations as observed in Drametse, Trashigang Dzong, Wamrong Zanthopelri etc thereby altering the structural performance of the Dzongs and Lhakhangs.
- 8) The damage on the BHU in Narang is deduced to be the deficiencies in the construction such as poor quality of cement mortar, cornices not integrated to main structure and *constructed not as per the specifications (specifications and drawings not verified)*.
- 9) As for the Gups office (Narang) did not suffer any damage and the contractor had been interviewed on how the construction had been executed. The explanation was that he followed the designs and specifications.
- 10) A house in Drametse having cement mortar and bands did not suffer significant cracks unlike the adjacent one with mud mortar. This clearly indicates that the use of high strength mortar and bands has provided better resistance to the earthquake.

Recommendations:

After the site visit and the observations and deductions the following recommendations are proposed.

Short term:

- 1) To carry out inventory of the damages.
- 2) Classification of damages for masonry buildings as per the draft guideline on seismic vulnerability assessment and retrofit design of buildings in Bhutan 2009 is given below.
- 3) Training to the community on construction methods with introduction of seismic resistant elements.
- 4) Dissemination of information.
- 5) Boring in the Dzongs to determine the damage.

Classification of damage to masonry buildings	
<p>Grade 1: Negligible to slight damage (no structural damage, slight non-structural damage)</p> <p>Hair-line cracks in very few walls. Fall of small pieces of plaster only. Fall of loose stones from upper parts of buildings in very few cases.</p>	
<p>Grade 2: Moderate damage (Slight structural damage, moderate non-structural damage)</p> <p>Cracks in many walls. Fall of fairly large pieces of plaster. Partial collapse of smoke chimneys on roofs.</p>	
<p>Grade 3: Substantial to heavy damage (moderate structural damage, heavy non-structural damage)</p> <p>Large & extensive cracks in most walls. Roof tiles detach. Chimneys fracture at the roof line; failure of individual non-structural elements (partitions, gable walls).</p>	
<p>Grade 4: Very heavy damage (heavy structural damage, very heavy non-structural damage)</p> <p>Serious failure of walls (gaps in walls), inner walls collapse; partial structural failure of roofs & floors.</p>	
<p>Grade 5: Destruction (very heavy structural damage)</p> <p>Total or near total collapse of the building.</p>	

Grade 5 corresponds to complete collapse or beyond repair

Grade 4 corresponds to major repair

Grade 3 corresponds to partial repair

Grade 2 corresponds to minor repair

Long term:

- 1) Mapping of all the faults/lineaments.
- 2) Landslide inventory.
- 3) Seismic net work.
- 4) Seismic macro zonation
- 5) Seismic micro zonation for areas of interest
- 6) Enforcement of the existing codes, standards and manuals for construction in the rural areas.
- 7) Human resource development in the field of earthquake resistant building designs.
- 8) Detailed structural assessment of building types.
- 9) Application of retrofitting technology.
- 10) Mainstreaming safe construction practices in the school curriculum.

Annexure II

Damage Assessment Reported by Dzongkhag Administrations

I. Damage to Rural Homes

	Dzongkhag	Houses Damaged				No. of HHs actually	% of affected HHs	Dead	Injured
		Beyond Repair	Major Repair	Partial Repair	Minor Repair				
1	Trashiyantse	21	70	400	106	597	16.5		
2	Zhemgang	1	0	0	1	2	0.1		
3	Trashigang	147	445	439	572	1603	19.6	2	18
4	Pemagatshel	25	24	24	187	260	6.2	0	3
5	Lhuentse	0	6	24	87	117	4.2	0	0
6	Mongar	260	331	413	1253	2257	40.4	6	18
7	Samdrup Jongkhar	7	0	10	11	28	0.9	4	0
8	Gasa	0	0	23	0	23	4.3	0	0
9	Punakha	0	5	0	0	5	0.2	0	0
10	Chukha	0	0	0	22	22	0.6	0	0
11	Sarpang	0	0	0	2	2	0.0	0	0
12	Tsirang	1	3	2	28	34	1.3	0	0
	Total	462	884	1335	2269	4950	9.4	12	39

II. Damage to Govt. Buildings/Institutions: Note: BR: Beyond Repair, Mj R: Major Repair, PR : Partial Repair, MR : Minor Repair

	Dzongkhag	Schools				Hospitals/BHU				RNR Centers				Gups Office				Total			
		BR	Mj R	PR	MR	Total	BR	Mj R	PR	MR	Total	BR	Mj R	PR	MR	Total					
1	T/Yangtse	0	3	3	16	22	0	1	1	5	7	0	1	0	2	3	0	2	0	5	7
2	Zhemgang	0	0	0	0	0	0	0	0	0	0	0	2	0	1	3	0	0	0	1	1
3	T/gang	1	8	19	8	36	2	5	7	2	16	0	0	2	4	6	0	0	0	0	0
4	P/gatshel	3	4	1	8	16	0	0	0	1	1	0	0	0	1	1	2	1	0	3	6
5	Lhuentse	1	1	4	1	7	0	0	1	0	1	0	0	1	1	2	0	0	0	0	0
6	Mongar	3	8	10	12	33	1	0	10	9	20	0	1	1	7	9	1	2	3	1	7
7	S/Jongkhar	0	2	0	1	3	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1
8	Gasa	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1
9	Punakha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
10	Chukha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
11	Tsirang	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1
12	Trongsa	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0
	Total	8	26	37	46	117	3	6	19	17	45	0	4	7	18	29	4	6	4	12	26

III. Damages to Cultural Properties:

	Dzongkhag	Chorten				Total	Lhakhang				Total	Dzong				Total
		BR	Mj R	PR	MR		BR	Mj R	PR	MR		BR	Mj R	PR	MR	
1	T/yangtse	6	30	10	13	59	2	14	13	15	44	0	1	1	0	2
2	Zhemgang	0	1	0	0	1	0	0	0	1	1	0	0	0	0	0
3	Trashigang	17	60	43	18	138	11	42	27	13	93	0	1	0	0	1
4	Pemagatshel	11	8	2	34	55	4	1	5	6	16	0	0	0	0	0
5	Trongsa	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
6	Lhuentse	2	0	7	1	10	0	7	12	7	26	0	1	1	0	2
7	Mongar	106	64	56	47	273	19	26	47	17	109	0	0	0	0	0
8	S/Jongkhar	0	0	0	0	0	0	0	2	5	7	0	0	0	0	0
9	Punakha	0	0	0	0	0	0	0	2	0	2	0	0	0	1	1
10	Chukha	0	0	2	1	3	0	0	1	1	2	0	0	1	0	1
	Total	142	163	120	114	539	36	91	109	64	281	0	3	4	2	8

Annexure III

RGoB's Response and Relief Efforts

(As of February, 2010)

Activity	Cost (in Millions of Nu.)
1) Response and Relief by Dzongkhags	15.276
2) Rapid Assessment by Dzongkhag teams	All affected dzongkhag administrations formed rapid assessment teams and immediate damage assessments were carried out. The DDM received damage assessment reports from the dzongkhags till 16 th October, 2009.
3) Ex-Gratia support from His Majesty	The Gyalpoi Zimpon's Office provided immediate relief and ex-gratia assistance to all families of deceased and the injured.
4) Kidu-soelra from His Majesty the Fifth King	69.601 (as of December 7, 2009)
5) Kidu-soelra from His Majesty the Fourth King	22.818 (as on 9 February, 2010)
6) High Level Visits to the Earthquake Affected Areas	1) His Majesty the Fifth King (October 12-26, 2009) and 2) His Majesty the Fourth King (28 January – 7 February, 2010) 3) Hon'ble Prime Minister(23-30 Sept., 2009) 4) Hon'ble Nangsi Lyonpo(23/9/09-6/11/09 and 2/10-10/1/10)
7) Insurance Compensation	97.5 (as of December, 2009)
8) Coordination and Resource Mobilization Efforts	Coordination efforts at various levels are ongoing at various levels – Three National Level Stakeholder Meetings have been conducted so far to finalize the Recovery and Re-construction Plan.
9) Response from the Dratshang and Monk Body	To provide psychological and emotional support and build confidence of traumatized people in the eastern dzongkhags the Dratshang and monk body around the country performed Kurims and prayers. Especially two important visits were made: a. Visit by Lama Namkhai Nyingpo to Trashigang perform Jinseg b. Visit by Je Khenpo to conduct Moenlam in Trashigang Dzongkhag
10) Early Recovery Activities by Armed Forces/ Dzongkhag Personnel	Armed forces were deployed immediately to assist the Dzongkhag Administrations in providing immediate response and relief. The armed forces were involved in early recovery activities- removal of rubble, recovery of building materials, repair of minor damages, construction of shelters etc.
11) DGPC and PHPA	Aluminium ladders – 200 Nos. CGI sheets (9 ft.) – 95 Safety helmets – 280 (DGPC), 100 (PHPA)
12) Temporary Relief and Recovery Arrangements	Construction of temporary shelters/arrangements for BHUs, classrooms, Dzongkhag staff etc.

Annexure IV

Relief Items Received and Distributed

	Donor	Items	Receiving Agency	Delivery Date	Remarks
1	UN (UNDP, UNICEF, WFP, WHO, UNFPA)	1000 blankets, 23 tents, 150 tarpaulin sheets	MoE	24/9/09	962 blankets, 23 tents and 100 tarpaulin sheets delivered to Narang, Thangrong, Durung and Yangneer in Mongar and Trashigang
2		500 Family Kits	MoE	25/9/09	260 kits delivered
3		150 recreational kits	MoE		With DYS, MoE
4		266 Tarpaulin Sheets	MoE		250 have been distributed to schools as per the request submitted by MoE
5		1000 Blankets	MoE	15/12/09	Stored in DDM store
6		2000 Family Kits	DDM/ MoHCA	5/2/2010	1000 kits delivered to Ha, Paro, Bumthang, Tsirang and Trashigang.
7		200 A-shaped family tents	MoFA	27/9/09	140 distributed, 60 in Trashigang store
8		136 (4X4m) tents	MoFA		Delivered to Trashigang Relief Store
9		232 (4x4m) tents	MoFA		Trashigang
10		77 (8x5m) tents (school in a tent)	MoE	03/2010	Distributed as per request submitted by MoE
11		31,019 CGI sheets	DDM/ MoHCA	25,386 CGI sheets delivered	25,386 CGI sheets distributed to 716 HHs in 6 Dzongkhags
12		8 refrigerators	MoH	December 2009	Phoentsholing store
13		1,700 jerry cans	MoH	Delivered	Trashigang (1,100) Mongar (600)
14		2 (3,000 ltr) water storage tanks	MoH	Delivered	Distributed to Trashigang and Mongar
15		8 (2,000 ltr.) water storage tanks	MoH	Delivered	4 Nos. each to Trashigang and Mongar
16		HDPE pipes	MoH	Delivered	Delivered to Trashigang
17		MR vaccines	MoH	10,320 doses delivered	To counterpart Drugs Vaccines & Equipment Division (DVED), MoH, Thimphu
18		12,000 pcs of bathing soaps	MoH	Delivered	Received and distributed between Mongar and Trashigang
19		12,200 pcs of laundry soap	MoH	Delivered	
20		34 tents	MoFA		Delivered to Trashigang Relief store
21		12 Items (Tools and equipment)	MoFA	Oct and Nov, 09	Issued to Thangrong, Gongthung, Durung, Drametse and Narang Communities
21		3,500 Dignity Kits	MoH	9/10/09	Delivered and distributed from Trashigang relief camp
22		8,600 vegetable seeds	MoA	Under process	
23		Potato seeds			
		Food Grains (12.9 MT rice and 12.9 MT Kharang)	MoHCA		To be distributed to the affected Dzongkhags for use during community re-construction activities

24	JICA	350 Tent (6 people/winter type)	MoFA		Delivered to Trashigang Relief Store for further distribution
25		1000 Blanket			
26		1000 Sleeping Pads			
27		500 Plastic Sheets			

Annexure V

Resource Mobilization Status

Donor	Contribution (in Million Nu.)	FIC	Area of support	Fund status
GoI	250.000	2560	Unspecified	Deposited with DPA
Kuwait	93.819	2528	Unspecified	Deposited with DPA
Singapore	1.411	2533	Unspecified	Deposited with DPA
Thailand	1.387	2529	Unspecified	Deposited with DPA
Associazione Amici del Bhutan	0.013	2527		
Sponsors of Buddha Drodenma Poject	10.099	2540	Unspecified	
Prince Claus Fund	4.200		DoC	Indicative Commitment
UNESCO Paris Office	1.702		DoC	Indicative Commitment
Korean Organization	0.586		DoC	Disbursed through Pemagatshel DA
UNICEF	0.827	2215	MoH	Advocacy on Nutrition and Health
Bhutan Recovery and Re-construction project (UNDP)	11.890	2566	Project tied activities	
ADB (Upgrading Schools and Integrated Disaster Education Project)	87.000		Reconstruction of 4 identified schools	Indicative
Australia (through UNICEF)	13.280			Indicative
DANIDA	27.435	2576		Education and Health
France	0.694			
Bhutan Foundation	0.536	2570		Deposited with DPA
Global Facility for Disaster Recovery and Reconstruction (GFDRR)	23.000			indicative

Annexure VI
Resolutions of the Three Stakeholder Meetings

Resolutions of the 1st Stakeholder Meeting

Date :30 November, 2009

Venue :Conference Hall, National Library, Thimphu

Resolutions:

The Meeting adopted the following Decisions:

1. To consider the Joint Rapid Assessment Report (RGoB/World Bank/UN) (September 30 – October 14, 2009) as the basis for formulating a comprehensive Recovery and Reconstruction Plan.
2. The concerned Sectors and Agencies are required to come up with detailed Sector specific needs assessment report and to lead the implementation of re-construction activities in their respective areas.
3. The concerned Sectors and Agencies in coordination with the respective Dzongkhag Administrations and the GNHC should prioritize recovery and reconstruction activities and re-prioritize specific activities and re-appropriate the required budget from within the 10th FYP Budget outlay.
4. Re-prioritize the list of relief items submitted earlier to the UN for support vis'-a-vis' with the re-prioritization of recovery and reconstruction needs.
5. The GNHC would be responsible to follow up with the UN System and bilateral/ multilateral donor agencies on the relief requisitions submitted earlier and for segregating all donor contributions in cash and kind/relief items.
6. All concerned Sectors and Agencies would require to submit their prioritized list of recovery and reconstruction activities (*along with relief/material requirements*) and cost estimates during the next Meeting scheduled on 21st December, 2009 for final endorsement by the Steering Committee.
7. The need to share information among the stakeholders was crucial and efforts should be made to effectively co-ordinate among the relevant agencies. The Coordination Mechanism (*enclosed for reference*) proposed by the Department of Disaster Management was endorsed with few changes.
8. A Steering Committee, under the chairmanship of the Nangsi Lyonpo, should be instituted at the earliest possible, to guide, implement and monitor the recovery and reconstruction activities.
9. Two Working Groups i.e. **Resource Mobilization** and **Technical Support** shall be instituted under the Steering Committee to facilitate the recovery and reconstruction process.
10. Concerned Sectors and Agencies should play a lead role in carrying out damage assessments, mobilization of funds and implementation of the recovery and reconstruction activities in their respective areas. Working Groups/ Sub-Committees within the Sectors should be formed to support and facilitate the smooth implementation of the recovery and reconstruction activities.
11. The Department of Culture, MoHCA will re-assess the reconstruction requirements for damaged Dzongs, Lhakhangs, Chortens and come out with specific Guidelines and Plan of Action after conducting necessary field testing and survey of sites for re-location, merger etc. as per recommendations made by the UNESCO post-Earthquake Mission and UN-

ISDR field report.

12. The Recovery and Reconstruction Plan will include only Government Service centers/ infrastructure and cultural properties and shall not cover the reconstruction of rural homes.
13. The distribution of Relief items from the Trashigang Relief Store (*besides His Majesty's Kidu and Relief Items*) would be recorded, updated and further distribution plans formulated for reporting to the donor agencies, from time to time as requested by them.
14. The Asian Development Bank (ADB) is willing to provide Nu. 72 Million to re-building of six totally damaged community schools in the affected Dzongkhags of Trashigang and Mongar. The Ministry of Education should submit the details of the six prioritized schools to the Ministry of Finance at the earliest.
15. Nu. 23 Million is committed by IFAD to support agriculture related reconstruction activities and this would be followed up and reported back by the Ministry of Agriculture at the earliest.
16. The Resolutions of the Meeting along with the status of fund mobilization and proposed Coordination Mechanism would be presented to the Lhengye Zhungtshog on 8 December, 2009 for approval and further directives.

Resolutions of the 2nd Stakeholder Meeting

Date :21 December, 2009

Venue :Conference Hall, National Library, Thimphu

Resolutions:

The Meeting adopted the following Resolutions:

1. The Ministry of Health would review and submit their re-construction needs, activities, cost estimates and re-prioritized budget from within the 10th FYP budget outlay in coordination with the concerned Dzongkhags, GNHC and Ministry of Finance, within the next two days.
2. The Ministry of Agriculture, within the next two days, would re-prioritize re-construction activities that could not be met from their maintenance budget and discuss with the Ministry of Finance on re-appropriation and resource mobilization.
3. The Ministry of Education (*by 31st December, 2009*) would need to :
 - a. Finalize re-construction activities to be undertaken with ADB funding and clarify whether re-construction of the identified schools could be undertaken as a complete package (*site development, clearance, wall construction, sanitation, drinking water, electrification, road development etc.*)
 - b. Review the need and plan for improvement of temporary arrangements in place – temporary classrooms, staff and hostel shelters/arrangements, sanitation and drinking water arrangements etc. before the next academic session in 2010.
 - c. Detailed plan of re-prioritized re-construction activities, budget estimates and re-appropriation within the 10th FYP budget outlay in consultation with the concerned Dzongkhags, GNHC and the Ministry of Finance be submitted.
4. The Department of Culture and the Department of Local Governance to re-prioritize list of re-construction activities in consultation with the concerned Dzongkhag Administrations, GNHC and the Ministry of Finance.
5. The outcomes of the two Stakeholder Meetings and the final Plan that would be consolidated after the Steering Committee Meeting (SCM) on January 11, 2010, would be shared with the donor community for their information and further resource mobilization.
6. The Working Groups outlined in the Coordination Mechanism should meet to further discuss issues relevant to the working group and to facilitate discussions during the 3rd Stakeholder Meeting.
- 7. Resource Mobilization Working Group**
 - a. Take stock of resources mobilized so far – i.e., both cash and kind (Relief items)
 - b. Update on the Relief materials received so far and work out on a Distribution plan
 - c. Work out modalities for utilizing resources mobilized so far

d. Further resource mobilization

8. Technical Working Group

Earthquake resilient techniques, standards and existing guidelines

Providing technical support to implementing agencies

Possibility of conducting joint Trainings/ capacity building programs

9. The Department of Disaster Management (DDM) would endorse and forward recovery and re-construction related expenditure submitted by the Dzongkhag Administrations to the Ministry of Finance for payment. As of 21st December, 2009, the DDM had received report on expenses amounting to Nu. 26.077 million.
10. The Ministry of Home and Cultural Affairs would seek special Government approval for the provision of royalty free timber to be procured through the Territorial Forest offices, especially for the re-construction of lhakhangs.
11. The next Stakeholder Meeting to be conducted in the presence of Steering Committee, Resource Mobilization and Technical Support Groups and the Dzongdas of the affected Dzongkhags along with their District Engineers on 11th January, 2010.

Resolutions of the 3rd Stakeholder Meeting

Date : January 11, 2010

Venue : Conference Hall, National Library

Resolutions:

1. All Sectors shall follow established procedures to approach donors for assistance. As per this procedure, the Agencies have to submit their Details of Requirements to the DDM which in turn will forward to MoFA for submission to the donors.
2. On the need for a standardized channel of reporting, it was decided that except for the Office of the Gyalpoi Zimpon for which due submissions must be made, the Dzongkhag Administrations will report to the Department of Disaster Management only.
3. It was decided that the DDM shall compile and project the contribution of RGoB resources used for relief, response and reconstruction works in addition to external fund.
4. On the status of resource mobilization for earthquake relief and reconstruction the need for further communication and coordination among relevant agencies was noted and the meeting resolved that this will be finalized by the Resource Mobilization Group chaired by the Hon'ble Finance Secretary.
5. The MoE was directed to submit the break up (work plan) of the budget for different financial years.
6. It was decided that the MoE should notify the MoF formally for re-construction activities under ADB funding, instead of routing through the ADB Consultant.
7. In order to expedite reconstruction of Narang BHU, the Mongar DA was instructed to accelerate construction of the farm road for completion by April 2010.
8. The MoH was directed to provide the budget break up for Reconstruction of Narang BHU as per the work plan.
9. The MoA was directed to provide the MoF with the details of the re-appropriation from within their 10th Plan outlay.
10. The DLG should in consultation with the DAs prioritize Gup office re-construction and submit detailed estimates and work plans at the earliest possible.
11. For the re-construction of cultural assets it was decided that:
 - a. RGoB support shall be extended to the reconstruction and renovation of religious monuments irrespective of who own them (private, government or community).
 - b. Chortens without '*Nangsung*' will not be renovated unless they are very important.
 - c. As far as possible, several villages will be combined for reconstruction of one lhakhang to make it sustainable.
 - d. Considering the implementation capacity, take up only one lhakhang in each Gewog. However, it was discussed that in large Gewogs, more than one may have to be considered if feasible.

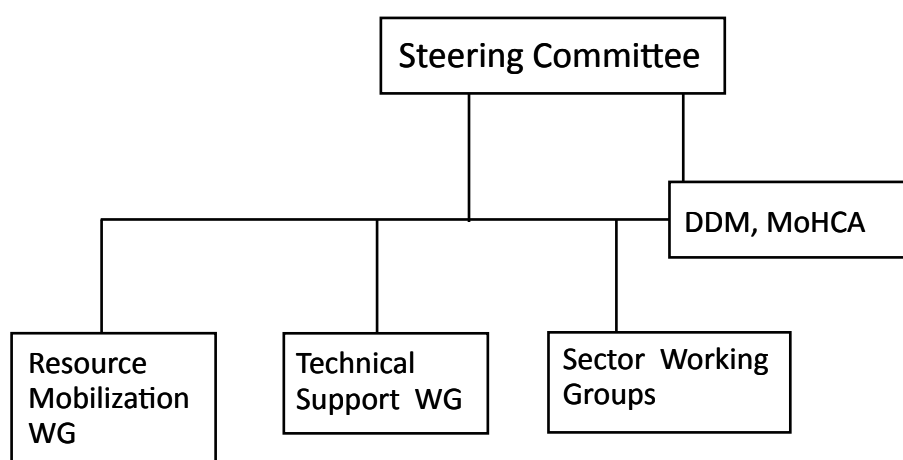
- e. The Resources committed to reconstruction and renovation of lhakhangs will be used for construction of public toilets, kitchen, caretaker's house and for labour payment. It must not be used for installation of new statues and inclusion of luxury structures.
 - f. Timber arrangement for Lhakhang reconstruction/renovation shall be decentralized to the Dzongkhag Forest Officer (DFO). The Department of Culture is directed to submit plans and design of the Lhakhangs to the DFO by February 2010.
12. In connection with reconstruction of Rural Homes. The main resolutions were:
- The reconstruction will be owner driven
 - CGI sheets will be provided on need basis
 - Royalty free timber (4-6 standing trees) will be provided on need basis (transportation of timber from sawmill to the site to be done by the DAs).
 - Training on earthquake resilient features will be provided to the carpenters / masons. The Meeting directed the SQCA to organize the earthquake resilient feature training as soon as possible.
13. The DGM was directed to carry out the seismic fault line mapping and seismic micro zoning at the earliest possible.
14. In line with the Lhengye Zhungtshog's directives, the DAs were instructed to encourage people to construct single storey buildings and to communicate that government assistance will not be available for those building more than two storey building.
15. The NRDCL was requested to set up portable sawmills at their depots in the east to supply sawn timber for rural home construction. The NRDCL and DAs were instructed to identify the location for portable sawmills.
16. Each household requiring timber will be allotted sawn timber equal to 4 – 6 standing trees. The cost of sawing will be borne by the people themselves.
17. The transportation from the NRDCL Depot to the construction site will be done by the Office of the Gyalpoi Zimpoen as kidu.
18. CGI sheets have to be distributed on need assessment done by the DAs. However, taking into consideration the practical problems faced by the DAs, the Meeting decided that household that suffered two categories of damage "Beyond Repair" and "Major Repair" may be given sixty sheets each.
19. The Meeting decided that CGI sheets requirements which cannot be met from the CGI sheets mobilized or committed for supply so far, would be worked out by the DDM on 60 sheets per household basis and submit to the Gyalpoi Zimpoen Office for consideration from Kidu Fund.
20. The Dzongkhag Engineers were instructed to take the lead role in the reconstruction efforts. They were also instructed to ensure that the designs and estimates include only the minimum needs taking into consideration of the limited resources.

Annexure VII

Coordination Mechanism and Implementation Strategy/Process for Implementation of the Recovery and Re-construction Plan

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Coordination Mechanism



Steering Committee

Hon'ble Nangsi Lyonpo – Chairperson

Secretaries to the Government: MoHCA, MoF, MoWHS, MoE, MoH, MoA, MoEA, GNHC

Representative from Cabinet Secretariat/ Hon'ble Prime Minister's Office

Representative from Gyalpoi Zimpoen's Office

Director, DDM – Member Secretary

The Steering Committee shall meet once in every three months to monitor the progress and implementation of the recovery and re-construction activities and provide directives wherever required.

Under the Steering Committee there shall be two specific Working Groups - **Resource Mobilization Working Group** and **Technical Support Working Group**.

Respective Agencies shall lead the Recovery and Reconstruction activities in their respective areas and shall designate relevant lead Departments/Divisions/focal persons and constitute Working Groups/ Sub committees within the Sector for the purpose. The Working Groups shall meet at least once a month and be responsible for:

- Implementing, Coordinating and monitoring progress of on-going re-construction activities relevant to their Working Group.
- Reporting progress or gaps/issues in the implementation of the re-construction activities to the Steering Committee from time to time.

Resource Mobilization Working Group

Lead agency – Ministry of Finance

Chairperson – Hon’ble Secretary, Ministry of Finance

Members – GNHC, MoFA, DDM

The Resource Mobilization Working Group, under the Chairmanship of Hon’ble Secretary, MoF shall be responsible for mobilizing resources for the re-construction activities, liaising with the bilateral, UN and other International Agencies on the relief and recovery requirement requests, instituting funding and fund disbursement modalities, facilitating transfer and re-appropriation of funds to the affected Dzongkhags or, concerned Sector and informing the Steering Committee on resource gaps and requirements from time to time.

Technical Support Working Group

Lead Agency – Ministry of Works and Human Settlement

Chairperson – Hon’ble Secretary, Ministry of Works and Human Settlement

Members – SQCA, DUDES, DGM, DoC, SPBD, MoA, DLG, DDM

The Technical Support Working Group shall be responsible for formulating designs, guidelines, standards and providing technical guidance and back stopping to the other Working Groups and the Dzongkhag Administrations to ensure that re-construction and restoration activities follow the **“build back better”** concept and follow proper seismic and other safety guidelines.

Department of Disaster Management (DDM), MoHCA

The DDM will serve as a Secretariat to the Steering Committee and the Working Groups.

The DDM will be responsible for:

- Facilitating the conduct of Steering Committee and Working Group Meetings.
- Coordinating and liaison with the concerned Dzongkhag Administrations with regard to the re-construction activities.
- Recording Minutes, maintaining records and following up with all concerned Sectors/ Agencies.
- Furnishing information and reports etc. on the on-going re-construction activities.

Annexure VIII

RGoB's Recovery and Re-construction Efforts

Activity	Cost
Detailed Assessment by Sectors	The Ministry of Education, Ministry of Health and the Department of Culture have carried out detailed assessments and have worked out cost estimates for each and every re-construction activity. Experts from the UN-ISDR and UNESCO have also assisted the Department of Culture in conducting technical assessments.
Royalty Free Timber	5688 Standing trees
Transportation Costs	Transportation of CGI sheets (from relief store in Trashigang) and timber (from NRDCI depots or Extraction site) to individual households is being delivered by the armed forces and coordinated by the Gyalpoi Zimpon's Office, as kidu from His Majesty.
Coordination and Resource Mobilization Efforts	Coordination efforts at various levels are ongoing at various levels – Three National Level Stakeholder Meetings have been conducted so far to formulate and finalize National Comprehensive Recovery and Re-construction Plan.
Construction of Five Model Houses	As per His Majesty's Command, the Gyalpoi Zimpon's office in coordination with various technical agencies is in the process of constructing five model houses in Durung, Trashigang.
Training of Masons and Carpenters	As per the Coordination Mechanism proposed during the stakeholder meetings and approved by the Lhengye Zhungtshog, the Technical Working Group has finalized the training curriculum and identified resource persons for conducting training of masons and carpenters in earthquake safety and earthquake resilient techniques. The first round of training in the six eastern dzongkhags is being conducted from 24 February, 2010. Two documents have been formulated: <ul style="list-style-type: none"> - "Proper Construction Practices for Traditional Timber Framework" – Department of Culture - "Guidelines on Proper Construction Practices for Non-Engineered Buildings (Stone Masonry)" – SQCA

Annexure IX

Sector Recovery and Re-construction Plans

Yearly Budgetary Requirements and Source of Funds in the Health Sector

Sl. No	Dzongkhag	Identified Recovery and Reconstruction Activity	Total Estimated Cost	Implementation time frame and Budget Requirement by year				Re-appropriation		Donor contribution	
				FY 2009-2010	FY 2010-2011	FY 2011-2012	FY 2012-2013	Amount	Source	Amount	FIC/ Donor
1	Trashigang	Yagneer BHU	15,566,000.00		9,340,000.00	6,226,000.00				15,566,000.00	2,560.00
2	Trashigang	Yabrang BHU	5,000,000.00		5,000,000.00			5,000,000.00	10th plan		
3	Trashigang	Radhi BHU	5,000,000.00		5,000,000.00			5,000,000.00	10th plan		
4	Trashigang	Khairi ORC	134,000.00		134,000.00					134,000.00	BRRP
5	Trashigang	Mankhar ORC	1,165,000.00		690,000.00	475,000.00				1,165,000.00	BRRP
6	Trashigang	Benshingmo ORC	1,165,000.00		690,000.00	475,000.00				1,165,000.00	BRRP
7	Trashigang	Staff Qtr of Trashigang Hospital	800,000.00		480,000.00	320,000.00				800,000.00	BRRP
8	Mongar	Narang BHU	38,210,000.00		22,930,000.00	15,280,000.00				38,210,000.00	23000000 GFDRR/ 15210000 FIC 2560
9	Mongar	Mongar RR Hospital	479,000.00	479,000.00				479,000.00	RGoB		
10	Lhuntse	Hospital and Staff Qtr Maintenance, Lhuntse	250,000.00	250,000.00				250,000.00	RGoB		
11	Lhuntse	Ney BHU	250,000.00		250,000.00					250,000.00	2,560.00
		HEALTH TOTAL	68,019,000.00	729,000.00	44,514,000.00	22,776,000.00		10,729,000.00		57,290,000.00	

Yearly Budgetary Requirements and Source of Funds in the Local Governance Sector

Sl. No	Dzongkhag	Identified Recovery and Reconstruction Activity	Total Estimated Cost	Implementation time frame and Budget Requirement by year				Source of Funds	
				FY 2009-2010	FY 2010-2011	FY 2011-2012	FY 2012-2013	Amount	FIC/ Donor
1	Pema Gatsel	Reconstruction of Gup's Office, Nanong	2,442,000.00		2,442,000.00			2,442,000.00	2,560.00
2		Reconstruction of Gup's Office, Khar	2,442,000.00		2,442,000.00			2,442,000.00	2,560.00
3		Reconstruction of Gup's Office, Dechhenling	2,442,000.00		2,442,000.00			2,442,000.00	2,560.00
4	Trashigang	Reconstruction of Gup's Office, Tongshang	3,000,000.00		3,000,000.00			3,000,000.00	2,560.00
5		Reconstruction of Gup's Office, Yallang	3,000,000.00		3,000,000.00			3,000,000.00	2,560.00
6		Reconstruction of Guest House	700,000.00		700,000.00			700,000.00	2,560.00
7	Trashigang	Reconstruction of Gup's Office, Samkhar	370,000.00		370,000.00			370,000.00	2,560.00
8		Reconstruction of Gup's Office, Uzorong	270,000.00		270,000.00			270,000.00	2,560.00
9	Mongar	Reconstruction of Gup's Office, Drametse	3,000,000.00		3,000,000.00			3,000,000.00	2,560.00
10		Reconstruction of Gup's Office, Chhali	3,000,000.00		3,000,000.00			3,000,000.00	2,560.00
11		Reconstruction of Gup's Office, Mongar	3,000,000.00		3,000,000.00			3,000,000.00	2,560.00
12		Reconstruction of Gup's Office, Jurney	750,000.00			750,000.00		750,000.00	2,560.00
13		Reconstruction of Gup's Office, Sherimung	750,000.00			750,000.00		750,000.00	2,560.00
14		Reconstruction of Gup's Office, Saling	750,000.00			750,000.00		750,000.00	2,560.00
15	Punakha	Reconstruction of Gup's Office, Shengana	722,799.00		722,799.00			722,799.00	2,560.00
16	Gasa	Reconstruction of Gup's Office, Khamey	750,000.00		750,000.00			750,000.00	2,560.00
		LG TOTAL	27,388,799.00		25,138,799.00	2,250,000.00		27,388,799.00	

Yearly Budgetary Requirements and Source of Funds in the Education Sector

Sl. No	Dzongkhag	Identified Recovery and Reconstruction Activity	Total Estimated Cost	Implementation time frame and Budget Requirement by year						Re-appropriation		Donor contribution	
				FY 2009-2010	FIC	FY 2010-2011	FY 2011-2012	FY 2012-2013	Amount	Source	Amount	FIC/ Donor	
1	Trashigang	Bumdeling CPS	3,929,386.97	1,178,816.09	2,528	2,750,570.88			2,750,570.88	New Classrooms			
2		Dalikhari CPS	2,260,756.22	678,226.87	2,528	1,582,529.35			1,582,529.35	New Admin Bldg. 975000, New Classrooms: 799000, Retaining Wall : 486756.22			
3		Dhukuti CPS	683,824.75	205,147.43	2,528	478,677.32			478,677.32	New PQ			
4		Doksum CPS	90,000.00	90,000.00	2,528								
5		Jamkhar CPS	10,585,971.50	3,175,791.45	2,528	7,410,180.05			1,720,000.00	Renovation	5,690,180.05	2576	
6		Khamdang CPS	720,000.00	720,000.00	2,528								
7		Kheni CPS	827,167.36	827,167.36	2,528					Renovation			
8		Langmadung CPS	360,000.00	360,000.00	2,528					Retaining Wall			
9		Lichen CPS	720,000.00	720,000.00	2,528					Renovation: 300000, Retaining Wall: 420000			
10		Melongkhar CPS	360,000.00	360,000.00	2,528					Renovation			
11		Ramjar MSS	216,000.00	216,000.00	2,528								
12		Shingkhari CPS	666,000.00	666,000.00	2,528					Renovation: 250000, Fencing : 416000			
13		Thragom CPS	1,989,000.00	596,700.00	2,528	1,392,300.00			1,392,300.00	Cls Renovation: 1000000, Gen Renovation: 500000, Playfield: 489000			
14		Tokaphu CPS	4,199,386.97	1,259,816.09	2,528	2,939,570.88			1,637,183.91	New Cls: 2397000, Playground: 500000	1,302,386.97	UNICEF	
15		Tomijhangsa CPS	765,000.00	765,000.00	2,528					Renovation			
16		Tshaling CPS	1,462,728.56	438,818.57	2,528	1,023,909.99			6,915.57	New Cls: 799000, Fencing: 500000, Renovation: 163728.56	1,016,994.42	UNICEF	

Sl. No	Dzongkhag	Identified Recovery and Reconstruction Activity	Total Estimated Cost	Implementation time frame and Budget Requirement by year						Re-appropriation		Donor contribution	
				FY 2009-2010	FIC	FY 2010-2011	FY 2011-2012	FY 2012-2013	Amount	Source	Amount	FIC/ Donor	
17		Trashiyangtse LSS	4,230,985.37	1,269,295.61	2,528	2,961,689.76			2,961,689.76	Renovation			
18		Womangang CPS	1,462,728.56	438,818.57	2,528	1,023,909.99			1,023,909.99	New Cls: 750000, Renovation: 700000, Fencing: 12728.56			
19	Trashigang	Rangshikhar CPS	3,000,000.00	600,000.00	2,528	1,500,000.00	900,000.00		330,000.00	PQ: 830000, Renovation: 100000	2,070,000.00	UNICEF	
20		Joenkhar CPS	162,000.00			162,000.00			162,000.00	Renovation: 150000, const of hostel toilets: 12000			
21		Tokshingmang CPS	54,000.00			54,000.00			54,000.00	Renovation			
22		Tongling CPS	2,538,636.93	761,591.08	2,528	1,777,045.85			138,408.92	Const. of CLR: 800000, Renovation: 100000	1,638,636.93	UNICEF	
23		Galing PS	6,921,000.00			4,152,600.00	2,768,400.00		500,000.00	Renovation	6,421,000.00	2576	
24		Changmey PS	2,375,884.51			1,425,530.71	950,353.80		500,000.00	Renovation	1,875,884.51	2576	
25		Bartsham LSS	10,131,349.55	3,039,404.87	2,528	7,091,944.69			1,000,000.00	Renovation	6,091,944.69	2576	
26		Yagneer CPS	23,353,072.40	5,346,000.00	RGOB	14,405,657.92	3,601,414.48				18,007,072.40	ADB	
27		Pam CPS	12,352,500.43			6,176,250.21	6,176,250.21				12,352,500.43	ADB	
28		Kanglung MSS	18,000.00				18,000.00		18,000.00	Water Supply			
29		Jeri CPS	250,000.00	250,000.00	2,528					Renovation			
30		Dungmanma CPS	927,000.00	278,100.00	2,528	648,900.00			648,900.00	Renovation			
31		Udzorong LSS	850,753.58	255,226.07	2,528	595,527.51			595,527.51	Renovation			
32		NID, Khaling	53,000,000.00	5,300,000.00	RGoB	13,250,000.00	23,850,000.00	10,600,000.00	53,000,000.00	Expansion of NID			
33		Jomtsang CPS	683,824.75			410,294.85	273,529.90		683,824.75	Const. of PQ			
34		Moshi CPS	1,035,212.31	207,042.46	2,528	621,127.39	207,042.46		92,957.54	Renovation	735,212.31	UNICEF	
35		Jigme Sherubling HSS	12,758,906.29	1,275,890.63	2,528	3,189,726.57	5,741,507.83	2,551,781.26	6,410,000.00	Dining Hall: 3900000,Kitchen and Store: 2510000	5,073,015.66	2560	

Sl. No	Dzongkhag	Identified Recovery and Reconstruction Activity	Total Estimated Cost	Implementation time frame and Budget Requirement by year						Re-appropriation		Donor contribution	
				FY 2009-2010	FIC	FY 2010-2011	FY 2011-2012	FY 2012-2013	Amount	Source	Amount	FIC/ Donor	
36		Chiya CPS	1,692,424.62	507,727.39	2,528	1,184,697.23			1,056,272.61	Staff Qtr: 1464000, Renovation: 100000	128,424.62	UNICEF	
37		Benshingmo CPS	1,500,000.00	450,000.00	2,528	1,050,000.00			100,000.00	Renovation	950,000.00	2560	
38	Lhuntse	Wombur CPS	4,068,862.56			4,068,862.56					4,068,862.56	BRRP	
39		Gortsum CPS	4,545,457.13			4,545,457.13					4,545,457.13	BRRP	
40		Phuyum HSS	300,000.00			300,000.00			300,000.00	Renovation			
41		Lhuntse PS	200,000.00			200,000.00			200,000.00	Renovation			
42		Thimiyul LSS	50,000.00			50,000.00			50,000.00	Renovation			
43		Ladrong CPS	150,000.00			150,000.00			150,000.00	Renovation			
44	Pema Gatshel	Woongchilo CPS	7,898,245.47	1,579,649.09	2,528	6,318,596.38			400,000.00	Renovation	5,918,596.38	2560	
45		Yelchen CPS	1,102,728.56	220,545.71	2,528	882,182.85			179,454.29	Renovation	702,728.56	UNICEF	
46		Tsatshi CPS	1,746,424.62	349,284.92	2,528	1,397,139.70			400,000.00	Renovation	997,139.70	2560	
47		Chimong CPS	4,284,060.57	856,812.11	2,528	3,427,248.46			400,000.00	Renovation	3,027,248.46	2560	
48		Nganglam LSS	3,924,605.57	784,921.11	2,528	3,139,684.46			1,900,000.00	Site Decelopment: 1500000, Renovation: 400000	1,239,684.46	2560	
49		Yurung LSS	3,999,361.43	799,872.29	2,528	3,199,489.14			3,199,489.14	6 CLR block			
50		Khar LSS	846,212.35	169,242.47	2,528	676,969.88			609,757.53	Renovation: 380000, Science Lab: 390000	67,212.35	UNICEF	
51	Samdrup Jongkhar	SamdrupJongkhar CPS	558,000.00			558,000.00			558,000.00	Renovation			
52		Pemathang LSS	630,000.00			630,000.00			630,000.00	Renovation			
53	Mongar	Ngatshang CPS	396,000.00			396,000.00			396,000.00	Renovation			
54		Sherzhong CPS	6,835,540.36			4,784,878.25	2,050,662.11		3,712,000.00	New Admin Block 3572000, Renovation: 140000	3,123,540.36	2560	
55		Chaskar Pam CPS	90,000.00			90,000.00					90,000.00	UNICEF	

Sl. No	Dzongkhag	Identified Recovery and Reconstruction Activity	Total Estimated Cost	Implementation time frame and Budget Requirement by year					Re-appropriation		Donor contribution	
				FY 2009-2010	FIC	FY 2010-2011	FY 2011-2012	FY 2012-2013	Amount	Source	Amount	FIC/Donor
56		Chaskar LSS	5,266,215.90			3,686,351.13	1,579,864.77		250,000.00	Renovation	5,016,215.90	2560
57		Waichur CPS	1,156,753.58			809,727.51	347,026.07		913,000.00	Renovation: 500000, PF toilets: 63000, Playground: 350000	243,753.58	UNICEF
58		Baging CPS	2,961,482.15			2,073,037.50	888,444.64		1,933,000.00	Renovation: 500000, PF toilets: 63000, New Library and Reading Room: 1370000	1,028,482.15	2560
59		Balam CPS	2,272,728.56			1,590,909.99	681,818.57		1,275,000.00	New Admin Block: 975000, Renovation: 300000	997,728.56	UNICEF
60		Drametsi MSS	7,997,931.58			5,598,552.11	2,399,379.47		500,000.00	Renovation	7,497,931.58	2560
61		Thangrong CPS	28,561,801.41	5,940,000.00	RGOB	9,048,720.56	9,048,720.56	4,524,360.28			22,621,801.41	ADB
62		Lingkar CPS	2,439,457.13			1,707,619.99	731,837.14		500,000.00	Renovation	1,939,457.13	2576
63		Yadi MSS	71,280.00			71,280.00			71,280.00	Renovation		
64		Ganglapong CPS	3,984,972.12	796,994.42	2,528	3,187,977.70			925,000.00	Renovation: 500000, water Supply: 425000	2,262,977.70	2576
65		Resa CPS	3,984,972.12	796,994.42	2,528	3,187,977.70				Renovation	3,187,977.70	UNICEF
66		Udaric CPS	3,389,771.02	677,954.20	2,528	2,711,816.82			300,000.00	Renovation	2,411,816.82	2576
67		Kengkhar CPS	1,089,048.53	217,809.71	2,528	871,238.82			500,000.00	Renovation	371,238.82	2576
68		Takambi CPS	108,922.86	108,922.86	2,528					Renovation		
69		Tsakaling PS	364,687.54	145,875.02	2,528	218,812.52			218,812.52	Renovation		
70		Konbar CPS	1,588,728.56	317,745.71	2,528	1,270,982.85			182,254.29	Renovation	1,088,728.56	UNICEF
71		ZungleneCPS	124,607.79	124,607.79	2,528					Renovation		
72		Bumpazor CPS	192,146.44	192,146.44	2,528					Renovation		
73		Muhung CPS	252,502.74	252,502.74	2,528					Renovation		
74		Soenakhar CPS	183,206.52	183,206.52	2,528					Renovation		
75		Narang CPS	45,163,809.17	11,137,500.00	RGOB	13,610,523.67	13,610,523.67	6,805,261.83			34,026,309.17	ADB
		EDUCATION TOTAL	321,914,025.97	57,889,168.08		163,718,678.81	75,824,775.70	24,481,403.37	99,496,715.88		169,828,142.03	

Yearly Budgetary Requirements and Source of Funds in the Culture Sector (Private Lhakhangs)

SL No	Dzongkhag	Identified Recovery and Reconstruction Activity	Total Estimated Cost	Implementation time frame and Budget Requirement						Donor contribution	
				FY 2009-2010	FIC	FY 2010-2011	FY 2011-2012	FY 2012-2013	FY 2013-2014	Amount	FIC/ Donor
1	Mongar	Gompasara Lhakhang, Chali (Pvt)	100,000.00			100,000.00				100,000.00	2,560
2	Mongar	Sa-Pokto Dungkhor, Jurmed (Pvt)	100,000.00			100,000.00				100,000.00	2,560
3	Mongar	Mana-japhug Lhakhang, Jurmed (Pvt)	500,000.00			500,000.00				500,000.00	2,560
4	Mongar	Rinphug Lhakhang, Jurmed (Pvt)	100,000.00			100,000.00				100,000.00	2,560
5	Mongar	Ngayab Choeling Lhakhang, Jurmed (Pvt)	200,000.00			200,000.00				200,000.00	2,560
6	Mongar	Belemba-yul Lhakhang, Jurmed (Pvt)	200,000.00			200,000.00				200,000.00	2,560
7	Mongar	Ngangphug Lhakhang, Jurmed (Pvt)	80,000.00			80,000.00				80,000.00	2,560
8	Mongar	2 Dungkhor house (Pvt)	100,000.00			100,000.00				100,000.00	2,560
9	Mongar	Gyalkhar Lhakhang, Kenkhar (Pvt)	200,000.00			200,000.00				200,000.00	2,560
10	Mongar	Tongla Goenpa, Kenkhar (Pvt)	300,000.00			300,000.00				300,000.00	2,560
11	Mongar	Sha-jel, Kenkhar (pvt)	100,000.00			100,000.00				100,000.00	2,560
12	Mongar	4 Dungkhor House, Kenkhar (Pvt)	200,000.00			200,000.00				200,000.00	2,560
13	Mongar	Zeyzang-dogpelri, Kenkhar (Pvt)	1,000,000.00			1,000,000.00				1,000,000.00	2,560
14	Mongar	Zey Goenpa, Kenkhar (Pvt)	300,000.00			300,000.00				300,000.00	2,560
15	Mongar	Kepshing, Kenkhar (Pvt)	150,000.00			150,000.00				150,000.00	2,560
16	Mongar	Barka, Kenkhar (Pvt)	100,000.00			100,000.00				100,000.00	2,560
17	Mongar	Taopo Lhakhang, Ngagtshang (Pvt)	500,000.00			500,000.00				500,000.00	2,560
18	Mongar	Namla-me Choeten, Daepung (Pvt)	250,000.00			250,000.00				250,000.00	2,560
19	Mongar	Namla Ugyen Zangmo Lhakhang, Daepung (Pvt)	150,000.00			150,000.00				150,000.00	2,560
20	Mongar	Kalapang Goenpa, Saling (Pvt)	100,000.00			100,000.00				100,000.00	2,560

Sl. No	Dzongkhag	Identified Recovery and Reconstruction Activity	Total Estimated Cost	Implementation time frame and Budget Requirement						Donor contribution	
				FY 2009-2010	FIC	FY 2010-2011	FY 2011-2012	FY 2012-2013	FY 2013-2014	Amount	FIC/Donor
21	Mongar	Samten Lhakhang, Saling (Pvt)	100,000.00			100,000.00				100,000.00	2,560
22	Mongar	Mangling, Saling (Pvt)	50,000.00			50,000.00				50,000.00	2,560
23	Mongar	Kuengacholing, Mongar (Pvt)	100,000.00			100,000.00				100,000.00	2,560
24	Mongar	Tsanlung, Mongar (Pvt)	500,000.00			500,000.00				500,000.00	2,560
25	Mongar	Phosola, Gongdue (Pvt)	200,000.00			200,000.00				200,000.00	2,560
26	Mongar	Malang, Shermug (Pvt)	100,000.00			100,000.00				100,000.00	2,560
27	Mongar	Serzhong, Shermug (Pvt)	100,000.00			100,000.00				100,000.00	2,560
28	Mongar	Gangmung, Shermung (Pvt)	100,000.00			100,000.00				100,000.00	2,560
29	Mongar	Bumpokto Shermung (Pvt)	500,000.00			500,000.00				500,000.00	2,560
30	Mongar	Rodpa, Shermug (Pvt)	100,000.00			100,000.00				100,000.00	2,560
31	Mongar	Shawagar Shermug (Pvt)	100,000.00			100,000.00				100,000.00	2,560
32	Mongar	Phuzhing, Shermung (Pvt)	100,000.00			100,000.00				100,000.00	2,560
33	Mongar	Jangkhar, Shermung (Pvt)	100,000.00			100,000.00				100,000.00	2,560
34	Mongar	Bhomay, Shermung (Pvt)	250,000.00			250,000.00				250,000.00	2,560
35	Mongar	Yarag, Shermung (Pvt)	100,000.00			100,000.00				100,000.00	2,560
36	Mongar	Ajadungchu Lhakhang, Shermung (Pvt)	100,000.00			100,000.00				100,000.00	2,560
37	Mongar	Ajazangpokpa, Shermung (Pvt)	100,000.00			100,000.00				100,000.00	2,560
38	Mongar	Aja Dungkarchoeoling, Shermung (Pvt)	100,000.00			100,000.00				100,000.00	2,560
39	Mongar	7 Tsamkhangs in Aja, Shermung (Pvt)	400,000.00			400,000.00				400,000.00	2,560
40	Mongar	2 Thiling Lhakhangs, Shermung (Pvt)	250,000.00			250,000.00				250,000.00	2,560
41	Mongar	Thramo, Shermung (Pvt)	100,000.00			100,000.00				100,000.00	2,560
42	Mongar	Jabgang Lhakhang, Shermung (Pvt)	400,000.00			400,000.00				400,000.00	2,560

Sl. No	Dzongkhag	Identified Recovery and Reconstruction Activity	Total Estimated Cost	Implementation time frame and Budget Requirement						Donor contribution	
				FY 2009-2010	FIC	FY 2010-2011	FY 2011-2012	FY 2012-2013	FY 2013-2014	Amount	FIC/ Donor
43	Mongar	Tsan Lung, Shermung (Pvt)	150,000.00			150,000.00				150,000.00	2,560
44	Mongar	Zalashing, Shermung (Pvt)	100,000.00			100,000.00				100,000.00	2,560
45	Mongar	Thungchuwa Shermung (Pvt)	500,000.00			500,000.00				500,000.00	2,560
46	Mongar	Pahichelu, Shermung (Pvt)	150,000.00			150,000.00				150,000.00	2,560
47	Mongar	Khalong Goenpa, Narang (Pvt)	100,000.00			100,000.00				100,000.00	2,560
48	Mongar	Phosola, Gongdue (Pvt)	200,000.00			200,000.00				200,000.00	Prince Claus Fund
49	Mongar	Labisa Goenpa, Daepung (Pvt)	1,500,000.00			1,500,000.00				1,500,000.00	Prince Claus Fund
50	Pema Gatsel	Gomchu Lhakhang (Pvt)	200,000.00			200,000.00				200,000.00	2,560
51	Pema Gatsel	Chungkhar Burma Lhakhang (Pvt), Zobel	2,500,000.00			2,500,000.00				2,500,000.00	2,560
52	Pema Gatsel	Lakteri Lhakhang (Pvt)	200,000.00			200,000.00				200,000.00	2,560
53	Pema Gatsel	Phendhey Choling Lhakhang (Pvt), Dungmin	3,000,000.00			3,000,000.00				3,000,000.00	2,560
54	Samdrup Jongkhar	Bargonpa Lhakhang, Wangphu (Pvt)	75,000.00			75,000.00				75,000.00	2,560
55	Samdrup Jongkhar	Jampani Lhakhang, Langchenphu (Pvt)	50,000.00			50,000.00				50,000.00	2,560
56	Trashi Yangtse	Zirbula Lhakhang, Toetscho Gewog (Pvt)	150,000.00			150,000.00				150,000.00	2,528
57	Trashi Yangtse	Todshing Sidthar Lhakhang, Toetscho Gewog (Pvt)	700,000.00			700,000.00				700,000.00	2,528
		CULTURE TOTAL	18,255,000.00	0.00		18,255,000.00	0.00	0.00	0.00	18,255,000.00	

Yearly Budgetary Requirements and Source of Funds in the Culture Sector (Government and Community Lhakhangs)

Sl. No	Dzongkhag	Identified Recovery and Reconstruction Activity	Total Estimated Cost	Implementation time frame and Budget Requirement						Donor contribution	
				FY 2009-2010	FIC	FY 2010-2011	FY 2011-2012	FY 2012-2013	FY 2013-2014	Amount	FIC/ Donor
1	Lhuntse	Kidlung Lhakhang, Gangzur Gewog	500,000.00			500,000.00				500,000.00	2,540
2	Lhuntse	Yuddag Lhakhang, Gangzur Gewog	3,000,000.00			3,000,000.00				3,000,000.00	2,540
3	Lhuntse	Goenpa Karpo, Khoma	2,500,000.00			2,500,000.00				2,500,000.00	2,540
4	Lhuntse	Timula Lhakhang	500,000.00			500,000.00				500,000.00	2,540
5	Lhuntse	Tsentsen-pokpa Lhakhang, Kurtoe	500,000.00			500,000.00				500,000.00	2,540
6	Lhuntse	Rababe Lhakhang, Menbe	1,000,000.00			1,000,000.00				1,000,000.00	2,540
7	Lhuntse	Changchang Goenpa, Tsenkhar	50,000.00			50,000.00				50,000.00	2,560
8	Lhuntse	Domkhar, Tsenkhar	200,000.00			200,000.00				200,000.00	2,560
9	Lhuntse	Aunggar Lhakhang, Mentsho	1,000,000.00			1,000,000.00				1,000,000.00	2,540
10	Lhuntse	Tashi- Peling Lhakhang, Gangzur	50,000.00				50,000.00			50,000.00	2,540
11	Lhuntse	Samling Lhakhang, Gangzur	500,000.00				500,000.00			500,000.00	2,540
12	Lhuntse	Karphug Lhakhang, Khoma	500,000.00				500,000.00			500,000.00	2,540
13	Lhuntse	Karney Lhakhang, Menbe	100,000.00				100,000.00			100,000.00	2,560
14	Lhuntse	Tsangphug Lhakhang	50,000.00				50,000.00			50,000.00	2,560
15	Lhuntse	Lagyel Lhakhang	50,000.00				50,000.00			50,000.00	2,560
16	Lhuntse	Tsangrong Lhakhang, Khoma	200,000.00					200,000.00		200,000.00	2,560
17	Lhuntse	Thegcholing Lhakhang, Menbe	50,000.00					50,000.00		50,000.00	2,560
18	Lhuntse	Yomed Lhakhang, Menbe	50,000.00					50,000.00		50,000.00	2,560
19	Lhuntse	Barchu Lhakhang	50,000.00					50,000.00		50,000.00	2,560
20	Lhuntse	Phome-dung Lhakhang	50,000.00					50,000.00		50,000.00	2,560
21	Lhuntse	Shelmarchu Goenpa	50,000.00					50,000.00		50,000.00	2,560
22	Lhuntse	Samling Lhakhang, Gangzur	50,000.00						50,000.00	50,000.00	2,560
23	Lhuntse	Ngartobgay Lhakhang, Gangzur	50,000.00						50,000.00	50,000.00	2,560
24	Lhuntse	Pukum-Phel Lhakhang, Khoma	200,000.00						200,000.00	200,000.00	2,560

SL No	Dzongkhag	Identified Recovery and Reconstruction Activity	Total Estimated Cost	Implementation time frame and Budget Requirement						Donor contribution	
				FY 2009-2010	FIC	FY 2010-2011	FY 2011-2012	FY 2012-2013	FY 2013-2014	Amount	FIC/ Donor
25	Lhuntse	Tagmochu Lhakhang, Menbe	50,000.00						50,000.00	50,000.00	2,560
26	Lhuntse	Phagidung Lhakhang, Menbe	50,000.00						50,000.00	50,000.00	2,560
27	Lhuntse	Goni Lhakhang, Tsenkhar	200,000.00						200,000.00	200,000.00	2,560
28	Lhuntse	Tsochen Lhakhang, Tsenkhar	50,000.00						50,000.00	50,000.00	2,560
29	Lhuntse	Bomdheyling Lhakhang, Tsenkhar	50,000.00						50,000.00	50,000.00	2,560
30	Mongar	Dechencholing (community) Lhakhang, Chali	200,000.00			200,000.00				200,000.00	2,560
31	Mongar	Tag-khambe Yenlag Drashang, Tsakaling	500,000.00			500,000.00				500,000.00	2,560
32	Mongar	Thubten Shedrup-Chopeling, Tsakaling	300,000.00			300,000.00				300,000.00	2,560
33	Mongar	Samtencholing, Tsakaling	300,000.00			300,000.00				300,000.00	2,560
34	Mongar	Tsakaling Nagtshang	500,000.00			500,000.00				500,000.00	2,560
35	Mongar	Bja-Gun Goenpa, Kenkhar	100,000.00			100,000.00				100,000.00	2,560
36	Mongar	Ngatshang Dratshang	1,000,000.00			1,000,000.00				1,000,000.00	2,560
37	Mongar	Sa-ngag Choeling, Ngagtshang	80,000.00			80,000.00				80,000.00	2,560
38	Mongar	Kadam Lhakhang, Daepung	100,000.00			100,000.00				100,000.00	2,560
39	Mongar	Jangdung, Saling	100,000.00			100,000.00				100,000.00	2,560
40	Mongar	Chab Je Zimchung, Saling	2,000,000.00			2,000,000.00				2,000,000.00	2,560
41	Mongar	Thebnangbe Dratshang, Mongar	300,000.00			300,000.00				300,000.00	2,560
42	Mongar	Serzhong, Shermug	100,000.00			100,000.00				100,000.00	2,560
43	Mongar	Raeling, Shermung	500,000.00			500,000.00				500,000.00	2,560
44	Mongar	Pathung, Drametse	500,000.00			500,000.00				500,000.00	2,560
45	Mongar	Kadam Lhakhang, Thangrong	1,500,000.00			1,500,000.00				1,500,000.00	2,560
46	Mongar	Changshing Goenpa, Thangrong	400,000.00			400,000.00				400,000.00	2,560
47	Mongar	Shingphu, Thangrong	400,000.00			400,000.00				400,000.00	2,560

Sl. No	Dzongkhag	Identified Recovery and Reconstruction Activity	Total Estimated Cost	Implementation time frame and Budget Requirement						Donor contribution	
				FY 2009-2010	FIC	FY 2010-2011	FY 2011-2012	FY 2012-2013	FY 2013-2014	Amount	FIC/ Donor
48	Mongar	karma Choeling, Chali	150,000.00				150,000.00			150,000.00	2,560
49	Mongar	Chala-Gang, Tsakaling	300,000.00				300,000.00			300,000.00	2,560
50	Mongar	Drupchu Goenpa, Balam	800,000.00				800,000.00			800,000.00	2,560
51	Mongar	Bja-Goed Goenpa, Ngatshang	300,000.00				300,000.00			300,000.00	Prince Claus Fund
52	Mongar	Zunglen, Daepung	100,000.00				100,000.00			100,000.00	Prince Claus Fund
53	Mongar	Chagskhar Shedra, Chagsakhar	800,000.00				800,000.00			800,000.00	2,560
54	Mongar	Kalapang-Mimang Lhakhang, Saling	100,000.00				100,000.00			100,000.00	2,560
55	Mongar	2 Tsenphu Goenpa Tsamkhangs, Mongar	160,000.00				160,000.00			160,000.00	2,560
56	Mongar	Wengkhar Nagtshang, Mongar	100,000.00				100,000.00			100,000.00	2,560
57	Mongar	Aja Pema Yang Dzong, Shermung	250,000.00				250,000.00			250,000.00	2,560
58	Mongar	Laimey, Drametse	200,000.00				200,000.00			200,000.00	2,560
59	Mongar	Bazor, Dremetse	200,000.00				200,000.00			200,000.00	2,560
60	Mongar	Khalong Lhakhang, Narang	100,000.00				100,000.00			100,000.00	2,560
61	Mongar	Changyuel-La, Thangrong	200,000.00				200,000.00			200,000.00	2,560
62	Mongar	Thong Thong Goenpa, Thangrong	500,000.00				500,000.00			500,000.00	Prince Claus Fund
63	Mongar	Tongkala-nyeda Choeling, Thangrong	500,000.00				500,000.00			500,000.00	Prince Claus Fund

SL No	Dzongkhag	Identified Recovery and Reconstruction Activity	Total Estimated Cost	Implementation time frame and Budget Requirement						Donor contribution	
				FY 2009-2010	FIC	FY 2010-2011	FY 2011-2012	FY 2012-2013	FY 2013-2014	Amount	FIC/ Donor
64	Mongar	Dremetse Dzong, Dremeste	5,000,000.00				5,000,000.00			5,000,000.00	536000 Bhutan Foundation/ 4464000 FIC 2560
65	Mongar	Narang Lhakhang, Narang	1,000,000.00				1,000,000.00			1,000,000.00	Prince Claus Fund
66	Mongar	Tagchu, Mongar	200,000.00					200,000.00		200,000.00	2,560
67	Mongar	Pachula, Mongar	150,000.00					150,000.00		150,000.00	UNES-CO fund
68	Mongar	Rinphug, Thangrong	400,000.00					400,000.00		400,000.00	2,560
69	Mongar	Pangthangla, Thangrong	400,000.00					400,000.00		400,000.00	2,560
70	Mongar	Namnging Shedra, Tsakaling	300,000.00					300,000.00		300,000.00	2,560
71	Mongar	Dungkar Goenpa, Kengkhar	350,000.00					350,000.00		350,000.00	2,560
72	Mongar	Kharam-Shing, Mongar	1,000,000.00					1,000,000.00		1,000,000.00	UNES-CO fund
73	Pema Gatshel	Dagor Lhakhang, Shumar	2,000,000.00			2,000,000.00				2,000,000.00	2,560
74	Pema Gatshel	Woongchilo Lhakhang, Nanong	3,000,000.00			3,000,000.00				3,000,000.00	2,560
75	Pema Gatshel	Thangthong Gonpa, Nanong	3,500,000.00			3,500,000.00				3,500,000.00	2,560
76	Pema Gatshel	Chipchung Lhakhang, Chimong	200,000.00			200,000.00				200,000.00	2,560
77	Pema Gatshel	Dungmin Community Lhakhang	2,000,000.00			2,000,000.00				2,000,000.00	2,560
78	Pema Gatshel	Nanong Lhakhang	150,000.00			150,000.00				150,000.00	2,560
79	Pema Gatshel	Gashari Lhakhang's Kitchen, Mani House and Lhakhang's corridor	350,000.00			350,000.00				350,000.00	2,560
80	Pema Gatshel	Rinchenzor Lhakhang, Norbugang	300,000.00				300,000.00			300,000.00	2,560
81	Pema Gatshel	Shali Lhakhang, Shumar	400,000.00				400,000.00			400,000.00	2,560
82	Pema Gatshel	Tsebar Lhakhang, Khar	200,000.00				200,000.00			200,000.00	2,560

Sl. No	Dzongkhag	Identified Recovery and Reconstruction Activity	Total Estimated Cost	Implementation time frame and Budget Requirement						Donor contribution	
				FY 2009-2010	FIC	FY 2010-2011	FY 2011-2012	FY 2012-2013	FY 2013-2014	Amount	FIC/ Donor
83	Pema Gatshel	Denchi Lhakhang, Shumar	300,000.00					300,000.00		300,000.00	2,560
84	Pema Gatshel	Bartseri Lhakhang, Shumar	100,000.00					100,000.00		100,000.00	2,560
85	Pema Gatshel	Lanire Lhakhang, Dungmin	150,000.00				150,000.00			150,000.00	2,560
86	Pema Gatshel	Menchu Lhakhang, Norbugang	500,000.00			500,000.00				500,000.00	2,560
87	Pema Gatshel	Yongla Goenpa (Main Lhakhang, Drasha and Site Development)	29,000,000.00			14,000,000.00	15,000,000.00			29,000,000.00	unfunded
88	Samdrup Jongkhar	Wooling Lhakhang, Orong	50,000.00			50,000.00				50,000.00	2,560
89	Trashigang	Durung Lhakhang, Yagneer Gewog	5,334,101.14	500,000.00	2,528	4,000,000.00	834,101.14			4,834,101.14	2,560
90	Trashigang	Kupchiktsham Lhakhang, Yagneer Gewog	4,115,973.94	500,000.00	2,528	3,000,000.00	615,973.94			3,615,973.94	2,560
91	Trashigang	Tshengmeyer Lhakhang, Yagneer Gewog	6,829,687.96	500,000.00	2,528	4,000,000.00	2,329,687.96			6,329,687.96	2,560
92	Trashigang	Shingkar Lhakhang, Yagneer Gewog	4,738,945.50	500,000.00	2,528	4,000,000.00	238,945.50			4,238,945.50	2,560
93	Trashigang	Genkhar Lhakhang, Uzorong Gewog	4,924,786.45	200,000.00	2,528	4,000,000.00	724,786.45			4,724,786.45	2,560
94	Trashigang	Gongtsephangma Lhakhang, Shongphu Gewog	2,074,750.08	300,000.00	2,528	1,774,750.08				1,774,750.08	2,560
95	Trashigang	Jeri Lhakhang, Khaling Gewog	694,388.00	200,000.00	2,528	494,388.00				494,388.00	2,560
96	Trashigang	Pam Lhakhang with Kuynar's Resilience, Samkhar Gewog	842,260.04	300,000.00	2,528	542,260.04				542,260.04	2,560
97	Trashigang	Yonphula Drubdhey, Kanglung Gewog	4,079,802.24			2,079,802.24	2,000,000.00			4,079,802.24	2,560
98	Trashigang	Yonphula Lhakhang (Lower), Kanglung Gewog	990,000.00			990,000.00				990,000.00	2,560
99	Trashigang	Shingchen Goenpa Lhakhang, Kanglung Gewog	2,364,227.86			1,000,000.00	1,364,227.86			2,364,227.86	2,560
100	Trashigang	Tabrang Lhakhang, Phongmey Gewog	964,596.67			964,596.67				964,596.67	2,560

Sl. No	Dzongkhag	Identified Recovery and Reconstruction Activity	Total Estimated Cost	Implementation time frame and Budget Requirement						Donor contribution	
				FY 2009-2010	FIC	FY 2010-2011	FY 2011-2012	FY 2012-2013	FY 2013-2014	Amount	FIC/ Donor
101	Trashigang	Kakaney Lhakhang, Bidung Gewog	1,232,000.00			1,232,000.00				1,232,000.00	2,560
102	Trashigang	Samcholing Lhakhang, Samkhar Gewog	2,500,000.00			1,500,000.00	1,000,000.00			2,500,000.00	2,560
103	Trashigang	Tashi Gatshel Lhakhang, Bikhar, Samkhar Gewog	530,000.00			530,000.00				530,000.00	2,560
104	Trashigang	Lhakhang, Kitchen, toilet and Lam's Residence at Rangshikhar Goenpa, Samkhar Gewog	3,000,000.00			3,000,000.00				3,000,000.00	2,560
105	Trashigang	Thrimshing Lhakhang, Thrimshing Gewog	600,000.00			300,000.00	300,000.00			600,000.00	2,560
106	Trashigang	Bangzor Lhakhang, Thrimshing Gewog	110,000.00			110,000.00				110,000.00	2,560
107	Trashigang	Thelphu Lhakhang, Kangpara Gewog	800,000.00			200,000.00	600,000.00			800,000.00	2,528
108	Trashigang	Moshi Lhakhang, Lumang Gewog	802,026.33			500,000.00	302,026.33			802,026.33	2,528
109	Trashigang	Tshogonpa Lhakhang, Lumang Gewog	670,000.00			400,000.00	270,000.00			670,000.00	2,560
110	Trashigang	Yonphula Lhakhang (Upper), Kanglung Gewog	852,825.95				852,825.95			852,825.95	2,528
111	Trashigang	Thromang Lhakhang, Shongphu Gewog	830,000.00				830,000.00			830,000.00	2,528
112	Trashigang	Dungjur Lhakhang, Shongphu Gewog	1,512,218.92				1,512,218.92			1,512,218.92	2,528
113	Trashigang	Barshong Lhakhang, Khaling Gewog	430,677.00				430,677.00			430,677.00	2,528
114	Trashigang	Tshokhang at Bikhar Lhakhang, Khaling Gewog	220,000.00				220,000.00			220,000.00	2,528
115	Trashigang	Ugyen Choling Lhakhang at Bikhar, Samkhar Gewog	930,000.00				930,000.00			930,000.00	2,528
116	Trashigang	Kadam Lhakhang at Khabri, Samkhar Gewog	450,000.00				450,000.00			450,000.00	2,528

SL No	Dzongkhag	Identified Recovery and Reconstruction Activity	Total Estimated Cost	Implementation time frame and Budget Requirement						Donor contribution	
				FY 2009-2010	FIC	FY 2010-2011	FY 2011-2012	FY 2012-2013	FY 2013-2014	Amount	FIC/ Donor
117	Trashigang	Namgye Lhakhang at Rangshikhar, Samkhar Gewog	742,057.00				742,057.00			742,057.00	2,528
118	Trashigang	Anim Drupdra Khang, Thrimshing Gewog	290,000.00				290,000.00			290,000.00	2,528
119	Trashigang	Yemkhar Lhakhang, Thrimshing Gewog	161,269.00				161,269.00			161,269.00	2,528
120	Trashigang	Drupdey Tshochu Lhakhang, Kangpara Gewog	668,336.00				668,336.00			668,336.00	2,528
121	Trashigang	Yuelchang Goenpa Lhakhang, Kangpara Gewog	270,000.00				270,000.00			270,000.00	2,528
122	Trashigang	Goedkar Lhakhang, Yalang Gewog	200,000.00	200,000.00	2,528						
123	Trashigang	Rigzing Tenpa, Yalang Gewog	100,000.00	100,000.00	2,528						
124	Trashigang	Yarphe Lhakhang, Yalang Gewog	800,000.00	800,000.00	2,528						
125	Trashigang	Pangtoe Choeling, Yalang Gewog	200,000.00	200,000.00	2,528						
126	Trashigang	Shashing Goenpa Lhakhang, Khamdang	150,000.00	150,000.00	2,528						
127	Trashigang	Lengkhar Lhakhang Khamdang	200,000.00	200,000.00	2,528						
128	Trashigang	Kangur Lhakhang, Khamdang	100,000.00	100,000.00	2,528						
129	Trashigang	Noma-ring Lhakhang, Khamdang	150,000.00	150,000.00	2,528						
130	Trashigang	Zhapang Manggi Lhakhang, Bomdeling	300,000.00	300,000.00	2,528						
131	Trashigang	Khenyel Lhakhang, Bomdeling	50,000.00	50,000.00	2,528						
132	Trashigang	Baytsa-mang Mani Dangrim, Bomdeling	70,000.00	70,000.00	2,528						
133	Trashigang	Sengphu Lhakhang, Toetsho Gewog	300,000.00	300,000.00	2,528						
134	Trashigang	Sertsho Lhakhang, Toetsho Gewog	200,000.00	200,000.00	2,528						
135	Trashigang	Dodhuel Pema Choling Lhakhang, Ramjar	200,000.00	200,000.00	2,528						

Sl. No	Dzongkhag	Identified Recovery and Reconstruction Activity	Total Estimated Cost	Implementation time frame and Budget Requirement						Donor contribution	
				FY 2009-2010	FIC	FY 2010-2011	FY 2011-2012	FY 2012-2013	FY 2013-2014	Amount	FIC/ Donor
136	Trashig Yangtse	Kharsa Lhakhang, Yangtse Gewog	1,500,000.00	1,500,000.00	2,528						
137	Trashig Yangtse	Rabtey Yoedse Lhakhang, Yangtse Gewog	1,200,000.00	1,200,000.00	2,528						
138	Trashig Yangtse	Chugom Lhakhang, Yangtse Gewog	500,000.00	500,000.00	2,528						
139	Trashig Yangtse	Bimkhar Lhakhang, Yangtse Gewog	700,000.00	700,000.00	2,528						
140	Trashig Yangtse	Gangkharpam Lhakhang, Yangtse Gewog	200,000.00	200,000.00	2,528						
141	Trashig Yangtse	Rabtishung Lhakhang, Yangtse Gewog	700,000.00	700,000.00	2,528						
142	Trashig Yangtse	Mani Lhakhang, Yangtse Gewog	700,000.00	700,000.00	2,528						
143	Trashig Yangtse	Takchema Jaling Lhakhang, Jankhar Gewog	1,308,049.65	1,308,049.65	2,528						
144	Trashig Yangtse	Domshing Lhakhang, Jankhar Gewog	1,753,228.80	1,753,228.80	2,528						
145	Trashig Yangtse	Shingkar Lhakhang, Jankhar Gewog	100,000.00	100,000.00	2,528						
146	Trashig Yangtse	Lajab Lhakhang	100,000.00	100,000.00	2,528						
147	Trashig Yangtse	Nindha Lhakhang, Jankhar Gewog	700,000.00	700,000.00	2,528						
148	Trashig Yangtse	Duedel Ling Lhakhang, Jankhar Gewog	200,000.00	200,000.00	2,528						
149	Trashig Yangtse	Bainang- Khar Lhakhang, Tongshang Gewog	2,000,000.00	2,000,000.00	2,528						
150	Trashig Yangtse	Changma-dung Lhakhang, Tongshang Gewog	2,000,000.00	2,000,000.00	2,528						
151	Trashig Yangtse	Kenmong Lhakhang, Tongshang Gewog	1,000,000.00	1,000,000.00	2,528						
152	Trashig Yangtse	Pang Lhakhang, Tongshang Gewog	1,000,000.00	1,000,000.00	2,528						
153	Trashig Yangtse	Thruochu Goenpa Zangdopelri Lhakhang, Tongshang Gewog	800,000.00	800,000.00	2,528						

SL No	Dzongkhag	Identified Recovery and Reconstruction Activity	Total Estimated Cost	Implementation time frame and Budget Requirement						Donor contribution	
				FY 2009-2010	FIC	FY 2010-2011	FY 2011-2012	FY 2012-2013	FY 2013-2014	Amount	FIC/ Donor
154	Trashigang	Tokaphu Mangi Lhakhang, Tongshang Gewog	1,500,000.00	1,500,000.00	2,528						
155	Trashigang	Thruochu Goenpa Lhakhang, Tongshang Gewog	1,500,000.00	1,500,000.00	2,528						
156	Trashigang	Rolam Lhakhang, Yalang Gewog	500,000.00			500,000.00				500,000.00	2,528
157	Trashigang	Janghugtse Lhakhang, Toetsho Gewog	500,000.00			500,000.00				500,000.00	2,528
158	Trashigang	Dharchen Lhakhang, Toetsho Gewog	500,000.00			500,000.00				500,000.00	2,528
159	Trashigang	Baney Lhakhang, Yangtse Gewog	1,000,000.00			1,000,000.00				1,000,000.00	2,533
160	Trashigang	Ninlam-dung Lhakhang	400,000.00			400,000.00				400,000.00	2,533
161	Trashigang	Baawoong Lhakhang, Ramjar Gewog	200,000.00			200,000.00				200,000.00	2,528
162	Trashigang	Samten Choling Lhakhang (Melongkhar), Yalang Gewog	800,000.00			800,000.00				800,000.00	2,560
		CULTURE TOTAL	158,226,208.53	25,481,278.45		82,397,797.03	45,997,133.05	3,650,000.00	700,000.00	132,744,930.08	

Yearly Budgetary Requirements and Source of Funds for the Royal Bhutan Police									
SL. No	Sector	Identified Recovery and Reconstruction Activity	Total Estimated Cost	Implementation time frame and Budget Requirement by year				Source of Funds	
				FY 2009-2010	FIC	FY 2010-2011	FY 2011-2012	Amount	FIC/Donor
1	Royal Bhutan Police	Reconstruction of Septic tank (SP's residence/ office and NCO quarters in Trashigang)	287,976.98	287,976.98	2,528				2,560
2		Retaining Wall (in Phomshing, Trashigang)	1,719,984.43	502,000.00	2,528	1,217,984.43		1,217,984.43	2,560
3		Reconstruction of Dekha Toilet (in Phomshing, Trashigang)	858,666.10	202,000.00	2,528	656,666.10		656,666.10	2,560
4		Family Quarters (10 units in Dukti, Trashigang)	8,728,655.66	1,684,000.00	2,528	7,044,655.66		7,044,655.66	2,560
5		Family Quarters (10 units in Jangphu, Trashigang)	8,728,655.66	1,684,000.00	2,528	7,044,655.66		7,044,655.66	2,560
6		Family Quarters (18 units in Nungzor Jail, Trashigang)	20,806,000.00	3,585,000.00	2,528	13,000,000.00	4,221,000.00	17,221,000.00	2,560
7		Reconstruction of Toilet (10 units in Nungzor Jail, Trashigang)	744,177.28	302,000.00	2,528	442,177.28		442,177.28	2,560
8		Reconstruction of Security Wall (Nungzor Jail, Trashigang)	13,002,194.29	2,802,000.00	2,528	10,200,194.29		10,200,194.29	2,560
9		Reconstruction of NCO quarter (2 units in Gyalposhing, Mongar)	1,745,731.13	677,000.00	2,528	1,068,731.13		1,068,731.13	2,560
10		Reconstruction of Family Quarters (12 units in Pema Gatschel)	8,596,815.18	1,864,000.00	2,528	6,732,815.18		6,732,815.18	2,560
		TOTAL	65,218,856.71	13,589,976.98		47,407,879.73	4,221,000.00	51,628,879.73	

Yearly Budgetary Requirements and Source of Funds in the Agriculture and Forest Services Sector

SL No	Dzongkhag	Identified Recovery and Reconstruction Activity	Total Estimated Cost	Implementation time frame and Budget Requirement by year				Re-appropriation	
				FY 2009-2010	FY 2010-2011	FY 2011-2012	FY 2012-2013	Amount	Source
1	Trashigang Division	Reconstruction of Trashigang Range Office cum residence	2,480,000.00	2,480,000.00				700,000.00	Maintenance Budget (Range Office, Boepalegthang, Bumthang Division)
2								600,000.00	Capital Budget (Renovation of old staff quarters under sarpaang Division)
3								600,000.00	Capital Budget (Construction of wall at Sakteng Wildlife Sanctuary HQ, Phongmey)
4								600,000.00	Capital budget (Maintenance of office bldg under JDNP)
5		Reconstruction of Divisional Office, Trashigang	2,700,000.00		2,700,000.00				will be proposed under Departments Annual Budget
6		Reconstruction of Range Office cum residence, Doksum	2,480,000.00		2,480,000.00				will be proposed under Departments Annual Budget
7		Repairs of DFO Residence, Trashigang	1,910,000.00		1,910,000.00				will be proposed under Departments Annual Budget
8		Repairs of Range Office, Radhi	100,000.00			100,000.00			will be proposed under Departments Annual Budget
9		Repair Check Post, Kheri	100,000.00			100,000.00			will be proposed under Departments Annual Budget
10		Repair FMU Office, Dongdechhu	100,000.00			100,000.00			will be proposed under Departments Annual Budget
11		Repair FMU Office, Khaling-Kharungla	100,000.00			100,000.00			will be proposed under Departments Annual Budget
12	Mongar Division	Renovation of Check Post, Sherichu, Mongar	470,000.00	470,000.00				200,000.00	Maintenance Budget (range office bldg, Dagana Dzongkhag)
13								110,000.00	maintenance Budget (maintenance of staff quarter under Wangdue Dzongkhag)

Sl. No	Dzongkhag	Identified Recovery and Reconstruction Activity	Total Estimated Cost	Implementation time frame and Budget Requirement by year				Re-appropriation	
				FY 2009-2010	FY 2010-2011	FY 2011-2012	FY 2012-2013	Amount	Source
14								200,000.00	Maintenance Budget (renovation of range and beat offices under Tashi-gang Dzongkhag)
15		Renovation of FMU Office, Korta, Mongar	332,000.00	332,000.00				100,000.00	Maintenance Budget (maintenance of ecological reserve under JDNP)
16								105,000.00	Maintenance Budget (maintenance of property bldgs under BWS)
17								150,000.00	Maintenance Budget (renovation of range and beat offices under T/ yangtse Dzongkhag)
18		Renovation of Staff Quarters, Sherichu, Mongar	115,000.00		115,000.00				will be proposed under Departments Annual Budget
19		Renovation of Check Post, Kurizampa, Mongar	225,000.00		225,000.00				will be proposed under Departments Annual Budget
20		Reconstruction of Check Post, Tangmachu Mongar	700,000.00		700,000.00				will be proposed under Departments Annual Budget
21		Reconstruction of Range Office, Lhuntse	2,500,000.00		2,500,000.00				will be proposed under Departments Annual Budget
22		Chaskar Beat Office, Mongar	26,000.00			26,000.00			current budget
23		Yadi Beat Office, Mongar	38,000.00			38,000.00			will be proposed under Departments Annual Budget
24		Salaphu Beat Office, Mongar	418,000.00			418,000.00			200000 from current budget and the balance proposed through the Department Annual Budget
25		Range Office, Gyelposhing	288,000.00			288,000.00			will be proposed under Departments Annual Budget
26		Range Office, Mongar	18,000.00			18,000.00			will be proposed under Departments Annual Budget
27		FMU, Rongmachu	300,000.00			300,000.00			will be proposed under Departments Annual Budget

Sl. No	Dzongkhag	Identified Recovery and Reconstruction Activity	Total Estimated Cost	Implementation time frame and Budget Requirement by year				Re-appropriation	
				FY 2009-2010	FY 2010-2011	FY 2011-2012	FY 2012-2013	Amount	Source
28		Beat Office, Tangmachu	400,000.00			400,000.00			will be proposed under Departments Annual Budget
29		Beat Office, Autsho	80,000.00			80,000.00			will be proposed under Departments Annual Budget
30	Thrumshingla National park	Reconstruction of Range Officer's Residence, Lingmithang, Mongar	600,000.00	600,000.00				200,000.00	Maintenance Budget (repair of staff quarters and range office at URA, Lingmithang, Phawan)
31								100,000.00	Maintenance Budget (maintenance of road under SWS at Phongmey)
32								100,000.00	Capital Budget (making sign boards - Sarpang Division)
33								100,000.00	Maintenance Budget (maintenance of bldgs. At JDNP HQ)
34								50,000.00	Capital Budget (Making office sign boards at SWS HQ, Phongmey)
35								50,000.00	Maintenance Budget (minor repair of 5 beat offices under Punakha Dzongkhag)
36		Repair Double Unit staff quarter, Lingmithang Mongar	100,000.00		100,000.00				will be proposed under Departments Annual Budget
37	Lhuntse	Tshenkhar Gewog, RNR-RC, Lhuntse	300,000.00	300,000.00					IFAD assistance (AMMEP programme reappropriations)
38		Ganmgzoor Gewog, RNR-RC, Lhuntse	100,000.00	100,000.00					IFAD assistance (AMMEP programme reappropriations)
39	Mongar Division	Balam Gewog, Mongar RNR-RC	200,000.00	200,000.00					IFAD assistance (AMMEP programme reappropriations)
40		Chaskhar Gewog, RNR-RC	300,000.00	300,000.00					IFAD assistance (AMMEP programme reappropriations)
41		Chali Gewog, Mongar, RNR-RC	1,200,000.00	360,000.00	840,000.00				IFAD assistance (AMMEP programme reappropriations)

Sl. No	Dzongkhag	Identified Recovery and Reconstruction Activity	Total Estimated Cost	Implementation time frame and Budget Requirement by year				Re-appropriation	
				FY 2009-2010	FY 2010-2011	FY 2011-2012	FY 2012-2013	Amount	Source
42		Kenkhar Gewog, RNR-RC	50,000.00	50,000.00					IFAD assistance (AMMEP programme reappropriations)
43		Jurney Gewog, RNR-RC	40,000.00	40,000.00					IFAD assistance (AMMEP programme reappropriations)
44		Tsamang Gewog, RNR-RC	60,000.00	60,000.00					IFAD assistance (AMMEP programme reappropriations)
45		Saling Gewog, RNR-RC	150,000.00	150,000.00					IFAD assistance (AMMEP programme reappropriations)
46		Nagtshang Gewog, RNR-RC	300,000.00	300,000.00					IFAD assistance (AMMEP programme reappropriations)
47		Sherimuhung Gewog, RNR-RC	300,000.00	300,000.00					IFAD assistance (AMMEP programme reappropriations)
48		Mongar Gewog, RNR-RC	250,000.00	250,000.00					IFAD assistance (AMMEP programme reappropriations)
49		Thangrong Gewog, RNR-RC	100,000.00	100,000.00					IFAD assistance (AMMEP programme reappropriations)
50	Pema gatsel	Repairs on Nganshing-Woongchilo FR, Nanong Gewog, Pema Gatsel	85,000.00	85,000.00					IFAD assistance (AMMEP programme reappropriations)
51	Trashigang	Bidung Gewog, Trashigang, RNR-RC	350,000.00	350,000.00					IFAD assistance (AMMEP programme reappropriations)
52		Yagneer Gewog, Trashigang, RNR-RC	110,000.00	110,000.00					IFAD assistance (AMMEP programme reappropriations)
53		Lumang Gewog, RNR-RC	40,000.00	40,000.00					IFAD assistance (AMMEP programme reappropriations)
54		Lumang Gewog, Farm Road	80,000.00	80,000.00					IFAD assistance (AMMEP programme reappropriations)
55	Tashiyangtse	Jamkhar Gewog, Tashiyangtse, RNR-RC	400,000.00	400,000.00					IFAD assistance (AMMEP programme reappropriations)

Sl. No	Dzongkhag	Identified Recovery and Reconstruction Activity	Total Estimated Cost	Implementation time frame and Budget Requirement by year				Re-appropriation	
				FY 2009-2010	FY 2010-2011	FY 2011-2012	FY 2012-2013	Amount	Source
56		Tomzangtsen Gewog, RNR-RC	350,000.00	350,000.00					IFAD assistance (AMMEP programme reappropriations)
57		Toetso Gewog, RNR-RC	250,000.00	250,000.00					IFAD assistance (AMMEP programme reappropriations)
58	Zhemgang	Reconstruction of Pantang RNR Center, Zhemgang	8,684,000.00	2,605,200.00	6,078,800.00				IFAD assistance (AMMEP programme reappropriations)
59	DOA	Supply of Grain storage materials and other goods	9,296,000.00	9,296,000.00					IFAD assistance (AMMEP programme reappropriations)
60	Samdrup Jongkhar	DVH Samdrup Jongkhar	70,000.00	70,000.00					Repaaropriate from GOI project 2009-2010
61	Trashigang	RLDC, Khangma	200,000.00	200,000.00					Repaaropriate from GOI project 2009-2011
62	Lhuntse	BAFRA Office, Lhuntse	250,000.00	250,000.00					Reappropriate from repair of office budget code 51.01
		TOTAL	40,095,000.00	20,478,200.00	17,648,800.00	1,968,000.00			

Recovery and Reconstruction Cost: Sector and Dzongkhag

Dzongkhag/ Sector	Total Estimated Cost	Culture	Education	Local Governance	Health	Police	Agriculture and Forest Services
Trashigang	273,505,805.85	55,554,930.08	133,604,565.37	640,000.00	28,830,000.00	54,876,310.40	
Trashiyangtse	69,460,214.71	27,231,278.45	35,528,936.26	6,700,000.00			
Lhuntse	21,464,319.69	11,650,000.00	9,314,319.69		500,000.00		
Pema Gatshel	87,774,453.75	48,050,000.00	23,801,638.57	7,326,000.00		8,596,815.18	
Samdrup Jongkhar	1,363,000.00	175,000.00	1,188,000.00				
Mongar	203,981,297.21	33,820,000.00	118,476,566.08	11,250,000.00	38,689,000.00	1,745,731.13	
Trongsa	0.00						
Punakha	722,799.00			722,799.00			
Gasa	750,000.00			750,000.00			
TOTAL	699,116,890.21	176,481,208.53	321,914,025.97	27,388,799.00	68,019,000.00	65,218,856.71	40,095,000.00

Recovery and Reconstruction Cost: Sector and Year

		Implementation Timeline and Yearly Budget Requirement					
Sector	Total Estimated Cost	FY 2009-2010	FY 2010-2011	FY 2011-2012	FY 2012-2013	FY 2013-2014	Remarks
Culture	176,481,208.53	25,481,278.45	100,652,797.03	45,997,133.05	3,650,000.00	700,000.00	
Health	68,019,000.00	729,000.00	44,514,000.00	22,776,000.00			
Education	321,914,025.96	57,889,168.08	163,718,678.81	75,824,775.70	24,481,403.37		
Local Governance	27,388,799.00		25,138,799.00	2,250,000.00			
Police	65,218,856.71	13,589,976.98	47,407,879.73	4,221,000.00			
Agriculture and Forests	40,095,000.00	20,478,200.00	17,648,800.00	1,968,000.00			Taken up by MoA by reappropriation from 10th FYP and IFAD funding
TOTAL ESTIMATED COST	699,116,890.20	118,167,623.51	399,080,954.57	153,036,908.75	28,131,403.37	700,000.00	

Recovery and Reconstruction Cost: Dzongkhag, Sector and Year

Dzongkhag/ Sector	Total Estimated Cost	FY 2009-2010	FY 2010-2011	FY 2011-2012	FY 2012-2013	FY 2013-2014	Remarks
Trashigang							
Culture (Govt)	55,554,930.08	3,000,000.00	34,617,797.03	17,937,133.05			
Education	133,604,565.37	18,270,982.50	57,695,302.93	44,486,498.69	13,151,781.26		
Health	28,830,000.00		21,334,000.00	7,496,000.00			
Local Governance	640,000.00		640,000.00				
Police	54,876,310.40	11,048,976.98	39,606,333.42	4,221,000.00			
Trashi Yangtse							
Culture (Govt.)	26,381,278.45	22,481,278.45	3,900,000.00				
(Pvt.)	850,000.00		850,000.00				
Education	35,528,936.26	13,965,598.03	21,563,338.23				
Local Governance	6,700,000.00		6,700,000.00				
Lhuntse							
Culture	11,650,000.00		9,250,000.00	1,250,000.00	450,000.00	700,000.00	
Education	9,314,319.69		9,314,319.69				
Health	500,000.00	250,000.00	250,000.00				
Pema Gatshel							
Culture (Govt.)	42,150,000.00		25,700,000.00	16,050,000.00	400,000.00		
(Pvt.)	5,900,000.00		5,900,000.00				
Education	23,801,638.57	4,760,327.71	19,041,310.86				
Local Governance	7,326,000.00		7,326,000.00				
Police	8,596,815.18	1,864,000.00	6,732,815.18				
Samdrup Jogkhar							
Culture (Govt.)	50,000.00		50,000.00				
(Pvt.)	125,000.00		125,000.00				

Dzongkhag/ Sector	Total Estimated Cost	FY 2009-2010	FY 2010-2011	FY 2011-2012	FY 2012-2013	FY 2013-2014	Remarks
Education	1,188,000.00		1,188,000.00				
Mongar							
Culture (Govt.)	22,440,000.00		8,880,000.00	10,760,000.00	2,800,000.00		
(Pvt.)	11,380,000.00		11,380,000.00				
Health	38,689,000.00	479,000.00	22,930,000.00	15,280,000.00			
Local Governance	11,250,000.00		9,000,000.00	2,250,000.00			
Education	118,476,566.08	20,892,259.84	54,916,407.12	31,338,277.01	11,329,622.12		
Police	1,745,731.13	677,000.00	1,068,731.13				
Punakha							
Local Governance	722,799.00		722,799.00				
Gasa							
Local Governance	750,000.00		750,000.00				
Agriculture and Forest Services	40,095,000.00	20,478,200.00	17,648,800.00	1,968,000.00			
TOTAL	699,116,890.21	118,167,623.51	399,080,954.59	153,036,908.75	28,131,403.37	700,000.00	