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# Damage and Loss Assessment

## The Education Sector

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## Effects of Disasters on Education

# Disasters and the Education Sector

**Education is negatively affected by disasters of every kind**

**Schools and associated facilities sustain damage to their assets**

**They also sustain losses in their economic flows, during the time required for replacement or rehabilitation of assets**

# Damage to Education Assets

The following components of educational assets can sustain damage from disasters

- School buildings
- Furniture
- Equipment
- Education materials

The value of damage may be easily estimated by a trained architect or civil engineer

# Losses in Education Sector

The following types of losses may occur in the sector as a result of disasters

- Payment of unforeseen, temporary rental of premises to substitute assets under repair or reconstruction
- Payment of overtime salaries to teachers or other workers in the sector
- Incremental cost of training replacement of dead teachers
- Cost of demolition and removal of rubble
- Expenditures to repair school premises that sustain damage when used as temporary shelters
- Loss of revenue in private schools, when classes are stopped

**The case of public sector schools**

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## **Procedure for Damage and Loss Assessment**

# Pre-Disaster (Baseline) Situation

## Baseline of education assets

Define a typology of schools in the affected area

- Level of education (primary, secondary, technical and university)
- Size and construction materials
- Level and number of teachers
- Level and number of students
- Private and public ownership

## Baseline of education flows

Obtain information on

- The normal calendar of school year
- Cost of rental of educational facilities
- Fees charged to students
- Value of food provided to students
- Value of transport provided to students

# Post-Disaster Situation

**Survey to determine number of affected assets**

- Totally destroyed**
- Partially destroyed**

**Obtain present construction costs of school buildings**

**Obtain unit replacement costs of equipment and materials**

**Develop preliminary calendar of repair, replacement and reconstruction of assets, based on an analysis of**

- Construction sector capacity**
- Acquisition procedures for educational equipment and material**
- Availability/timeliness of financing**

# Post- Disaster Sector Performance

**Ascertain the period of use of schools as temporary shelters, and estimate the cost of repairs**

**Ascertain the likely duration of school year suspension**

**Define a preliminary program (and costs involved) to compensate education time loss through:**

- Use of alternative premises for classes**
- “Doubling up” in utilization of undamaged premises to compensate for the non availability of damaged premises**
- Overtime payment to teachers when required**
- Cost of accelerated training and specialization of new teachers**

**Estimate cost of demolition of damaged premises and of rubble removal and disposal**

**Estimate costs of not providing food and transport to students (that will have to be partially absorbed by parents)**

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## **Results of Recent Assessment**

### **Yogyakarta Earthquake and Education**

# Summary of Disaster Effects: Cyclone Nargis in Myanmar

Component	Kyat Million	
	Damage	Losses
Total or partial destruction of facilities	72,955	
Destruction of roof in facilities	15,260	
Administrative buildings	559	
Furniture, equipment and education materials	26,891	
Provision of interim public education facilities		672
Family compensation benefits		11
Professional training for staff replacement		100
Psycho-social counseling to children		240
<b>Total</b>	<b>115,665</b>	<b>1,023</b>

**Private sector participation in damage: 3.0%**  
**100% Public sector ownership in losses**

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**Thank You !!**