ATC-20-1 Bhutan Rapid Evaluation Safety Assessment Form

Inspection
Inspector ID: ____________________________  Evaluation date and time: ____________________________
Affiliation: ________________________________  Areas evaluated:  [ ] Exterior only  [ ] Exterior and interior

Building Description
Building name: ____________________________
Village/gewog/dzongkhag: ____________________________
Building owner/phone: ____________________________
Number of stories above ground: _____  below ground: _____
Approx. plinth area (square meters): ____________________________
Number of residential units: ____________________________
Number of residential units not habitable: ____________________________
GPS coordinates: Lat: _______  Long: _______

Type of Construction
- [ ] Rammed earth
- [ ] Stone masonry
- [ ] Ekra
- [ ] Adobe/mud block
- [ ] RCC frame with infill
- [ ] Brick masonry
- [ ] Concrete block masonry
- [ ] Timber or bamboo
- [ ] Other: ____________________________

Primary Occupancy
- [ ] Residential
- [ ] Medical services
- [ ] Public assembly
- [ ] Emergency services
- [ ] Other: ____________________________

Evaluation
Investigate the building for the conditions below and check the appropriate column.

Observed Conditions:  Minor/None  Moderate  Severe  Comments
- Collapse, partial collapse, or building off foundation
- Building or story leaning
- Racking damage to walls, other structural damage
- Rabsel, cornice, brick infill, or other falling hazard
- Ground slope movement, cracking, landslide, rockfall
- Other (specify) ____________________________

Comments: ____________________________

Posting
Choose a posting based on the evaluation and team judgment. Severe conditions endangering the overall building are grounds for an Unsafe posting. Localized Severe and overall Moderate conditions may allow a Restricted Use posting. Post INSPECTED placard at main entrance. Post RESTRICTED USE and UNSAFE placards at all entrances.

- [ ] INSPECTED (Green placard)
- [ ] RESTRICTED USE (Yellow placard)
- [ ] UNSAFE (Red placard)

Usability Category
- [ ] G1 Occupiable; no immediate further investigation required.
- [ ] G2 Occupiable; repairs may be necessary.
- [ ] Y1 Short-term entry
- [ ] Y2 Repairs required for safe entry to damaged parts.
- [ ] R1 Unsafe but stable. Repairs may be possible.
- [ ] R2 Unsafe and unstable. May not be repairable.
- [ ] R3 At risk from adjacent premises or from ground failure.

Record any use and entry restrictions exactly as written on placard: ____________________________

Further Actions  Check the boxes below only if further actions are needed.

- [ ] Barricades, shoring, or bracing needed in the following areas: ____________________________
- [ ] Detailed Evaluation recommended:  [ ] Structural  [ ] Geotechnical  [ ] Other: ____________________________
- [ ] Other recommendations: ____________________________

Comments: ____________________________

Digital photo filenames: ____________________________
### ATC-20-1 Bhutan Detailed Evaluation Safety Assessment Form

#### Inspection
- **Inspector ID:** ___________________________  **Evaluation date:** ___________________________
- **Affiliation:** ___________________________  **Evaluation time:** ___________________________
- **Areas evaluated:**  [ ] Exterior only  [ ] Exterior and interior

#### Building Description
- **Building name:** ___________________________
- **Village/gewog/dzongkhag:** ___________________________
- **Building owner/phone:** ___________________________
- **Number of stories above ground:** ______  **below ground:** ______
- **Approx. plinth area (square meters):** ___________________________
- **Number of residential units not habitable:** ___________________________
- **GPS coordinates:** Lat: ______  Long: ______

#### Type of Construction
- **Primary Occupancy**
  - [ ] Residential
  - [ ] Medical services
  - [ ] Public assembly
  - [ ] Emergency services
  - Check if:  [ ] Government  [ ] Private
    - [ ] Offices
    - [ ] Commercial
    - [ ] Industrial
    - [ ] School
    - [ ] Other: ___________________________

#### Building Name
- **Type of Construction**
  - [ ] Rammed earth
  - [ ] Stone masonry
  - [ ] Ekra
  - [ ] Adobe/mud block
  - [ ] RCC frame with infill
  - [ ] Brick masonry
  - [ ] Concrete block masonry
  - [ ] Timber or bamboo
  - [ ] Other: ___________________________

#### Evaluation
- **Overall hazards:**
  - Collapse or partial collapse  [ ]  [ ]  [ ]
  - Building or story leaning  [ ]  [ ]  [ ]
  - Other: ___________________________

#### Structural hazards:
- Roofs, floors (vertical loads)  [ ]  [ ]  [ ]
- Roof supports  [ ]  [ ]  [ ]
- Columns, pilasters  [ ]  [ ]  [ ]
- Walls, vertical bracing  [ ]  [ ]  [ ]
- Foundations  [ ]  [ ]  [ ]
- Rabsel  [ ]  [ ]  [ ]
- Other: ___________________________

#### Nonstructural hazards:
- Ornamentation  [ ]  [ ]  [ ]
- Cladding, glazing  [ ]  [ ]  [ ]
- Ceilings, light fixtures  [ ]  [ ]  [ ]
- Brick infill, partitions  [ ]  [ ]  [ ]
- Electric, gas, equipment  [ ]  [ ]  [ ]
- Lifts, stairs, exits  [ ]  [ ]  [ ]
- Other: ___________________________

#### Geotechnical hazards:
- Slope failure, debris  [ ]  [ ]  [ ]
- Ground movement, fissures  [ ]  [ ]  [ ]
- Other: ___________________________

#### General Comments:
- ___________________________

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**Continue on page 2**
Building name: ___________________________ Inspector ID: ___________________________

Sketch
Make a sketch of the damaged building in the space provided. Indicate damage points.

Number of residential units not habitable: ________________

Estimated Building Damage
(Use following format for each photo: DzongkhagGewogChiwogHouseNo__Direction.jpg)

Posting
If there is an existing posting from a previous evaluation, check the appropriate box.

Previous posting:  ☐ INSPECTED  ☐ RESTRICTED USE  ☐ UNSAFE  Inspector ID: ____________  Date: ____________

If necessary, revise the posting based on the new evaluation and team judgment; replace previous posting. Severe conditions endangering overall building are grounds for an Unsafe posting. Local Severe and overall Moderate conditions may allow a Restricted Use posting. Indicate the current posting below and at the top of page one, whether posting has been revised or not.

☒ INSPECTED (Green placard)  ☐ RESTRICTED USE (Yellow placard)  ☐ UNSAFE (Red placard)

Usability Category
☐ G1 Occupiable; no immediate further investigation required.
☐ G2 Occupiable; repairs may be necessary.
☐ Y1 Short-term entry
☐ Y2 Repairs required for safe entry to damaged parts.
☐ R1 Unsafe but stable. Repairs may be possible.
☐ R2 Unsafe and unstable. May not be repairable.
☐ R3 At risk from adjacent premises or from ground failure.

Record any use and entry restrictions exactly as written on placard: ____________________________________________________________

Further Actions  Check the boxes below only if further actions are needed.

☐ Barricades, shoring, or bracing needed in the following areas: ____________________________________________________________

☐ Engineering Evaluation recommended:  ☐ Structural  ☐ Geotechnical  ☐ Other: ____________________________

☐ Other recommendations: ____________________________

Comments: ____________________________________________________________