Surveyor ID

## **Building Element (DK)**

General Note: If there are more than one structural typology in plan for one Building Block (i.e. plan additions with different structural types), the building should be split in to building "Pieces" and the surveyor will need to fill out a different Building Piece form for each with different IDs as follows: EMIS number-Block Ref-piece # (e.g EMIS200120006 -A-01 and EMIS200120006 -A-02 etc.). A building with only one structural typology in plan would be labelled - EMIS number-Block Ref (e.g. EMIS200120006 -A-01).

5) Piec	e Assessment
Distric	t:
$\bigcirc$	Bhaktapur
$\bigcirc$	Dhading
$\bigcirc$	Dolakha
$\bigcirc$	Gorkha
$\bigcirc$	Kathmandu
$\bigcirc$	Kavre
$\bigcirc$	Lalitpur
$\bigcirc$	Makwanpur
$\bigcirc$	Nuwakot
$\bigcirc$	Okhaldhunga
$\bigcirc$	Ramechap
$\bigcirc$	Rasuwa
$\bigcirc$	Sindhuli
$\bigcirc$	Sindhupalchwok
/DC / N	Municipality

https://enketo.ona.io/\_/#Yh7O

EMIS School/College Code
Last 4 digit of school/college code

<b>Block Reference</b> A school campus is made up of a number of school buildings which are referred to as "Blocks". Each Block has a reference code e.g. A or B etc.)
5.1) Piece Reference
Each piece should be referenced;
Piece number e.g. 01 or 02 etc.
A building with only one structural typology in plan and therefore one building piece would be labelled - 01
District: VDC: EMIS: EMIS Piece Reference No: EMIS
Is the condition of the building equal to 'Site Clear' or 'Rubble'?  Yes  No
5.2) Upload plan image  Upload plan sketch on Building block (as in previous Building Block App)
5.3) No of Stories
O 1
O 2
O 3
$\bigcirc$ 4
O 5
O 6
O 7

4/1/2016	https://enketo.ona.io/_/#Yh7O
$\bigcirc$	9
$\circ$	10
» Foun	dations
	undation Type
	Continuous Footings under walls - Stone
$\bigcirc$	Continuous Footing under walls - Brick
$\bigcirc$	Continuous Footing under walls - Concrete
$\bigcirc$	Continuous Footing under walls - Unknown
$\bigcirc$	Pad Footings
$\bigcirc$	Pad Footings with foundation tie beam
$\bigcirc$	Don't know
Comm	ent
Takon	hata
Take p	noto
6.2) Is t	here a continuous plinth beam?
$\bigcirc$	Yes
$\bigcirc$	No
$\bigcirc$	Don't know
6.3) Da	mage / Deterioration to Foundation due to
	Settlement
	Slope failure
	Overall tilting of the building due to soil liquefaction
	No evidence of foundation damage
	Other
Specify	other.

» Storey

<ul> <li>Load Bearing</li> <li>RC Frame</li> <li>Steel Frame</li> <li>Other</li> <li>Specify other.</li> </ul> 5.4.) Storey - Structural Category <ul> <li>Load Bearing</li> <li>RC Frame</li> <li>Steel Frame</li> <li>Timber Frame</li> <li>Same as storey below</li> <li>Other</li> </ul> Specify other. 5.5) Area of the storey (estimate the area in square meters). <ul> <li>** ** ** ** ** ** ** ** ** ** ** ** **</li></ul>			
Steel Frame Other  Specify other.  5.4.) Storey - Structural Category Load Bearing RC Frame Steel Frame Steel Frame Other Specify other.  5.5) Area of the storey (estimate the area in square meters).  "" "" "" "" "" "" "" "" "" "" "" "" "	5.4. ) Storey - Structural Category		
<ul> <li>Steel Frame</li> <li>○ Timber Frame</li> <li>○ Other</li> <li>Specify other.</li> <li>5.4.) Storey - Structural Category</li> <li>○ Load Bearing</li> <li>○ RC Frame</li> <li>○ Steel Frame</li> <li>○ Timber Frame</li> <li>○ Same as storey below</li> <li>○ Other</li> <li>Specify other.</li> <li>5.5) Area of the storey (estimate the area in square meters).</li> <li>» » 6) Building Elements (Storey )</li> <li>» » Floors</li> <li>6.4) What is the floor structure?</li> <li>This does not include the floor on grade</li> </ul>	$\bigcirc$ L	Load Bearing	
Other  Specify other.  5.4.) Storey - Structural Category  Load Bearing  RC Frame  Steel Frame  Timber Frame  Same as storey below  Other  Specify other.  5.5) Area of the storey (estimate the area in square meters).  *** ** ** ** ** ** ** ** ** ** ** ** *	$\bigcirc$ R	RC Frame	
Specify other.  5.4. ) Storey - Structural Category  Load Bearing  RC Frame Steel Frame Timber Frame Same as storey below Other  Specify other.  5.5) Area of the storey (estimate the area in square meters).  *** ** ** ** ** ** ** ** ** ** ** ** *	$\bigcirc$ s	Steel Frame	
Specify other.  5.4.) Storey - Structural Category  Load Bearing  RC Frame  Steel Frame  Timber Frame  Same as storey below  Other  Specify other.  5.5) Area of the storey (estimate the area in square meters).  *** ** ** ** ** ** ** ** ** ** ** ** *	От	Γimber Frame	
5.4.) Storey - Structural Category  Load Bearing  RC Frame  Steel Frame  Timber Frame  Same as storey below  Other  Specify other.  5.5) Area of the storey (estimate the area in square meters).  *** *** *** *** *** *** *** *** *** *	$\bigcirc$ c	Other	
Load Bearing RC Frame Steel Frame Timber Frame Same as storey below Other  Specify other.  5.5) Area of the storey (estimate the area in square meters).  *** *** *** *** *** *** *** *** *** *	Specify o	other.	
Load Bearing RC Frame Steel Frame Timber Frame Same as storey below Other  Specify other.  5.5) Area of the storey (estimate the area in square meters).  *** *** *** *** *** *** *** *** *** *	5 4 ) Sto	arev - Structural Category	
RC Frame Steel Frame Timber Frame Same as storey below Other  Specify other.  5.5) Area of the storey (estimate the area in square meters).  *** *** *** *** *** *** *** *** *** *			
Steel Frame Timber Frame Same as storey below Other  Specify other.  5.5) Area of the storey (estimate the area in square meters).  *** ** ** ** ** ** ** ** ** ** ** ** *			
Timber Frame Same as storey below Other  Specify other.  5.5) Area of the storey (estimate the area in square meters).  *** ** ** ** ** ** ** ** ** ** ** ** *			
Same as storey below Other  Specify other.  5.5) Area of the storey (estimate the area in square meters).  *** ** ** ** ** ** ** ** ** ** ** ** *			
Other  Specify other.  5.5) Area of the storey (estimate the area in square meters).  *** ** ** ** ** ** ** ** ** ** ** ** *			
Specify other.  5.5) Area of the storey (estimate the area in square meters).  *** ** ** ** ** ** ** ** ** ** ** ** *			
5.5) Area of the storey (estimate the area in square meters).  » » 6) Building Elements (Storey )  » » Floors  6.4) What is the floor structure?  This does not include the floor on grade	$\bigcirc$ c	Other	
<ul> <li>» » 6) Building Elements (Storey )</li> <li>» » » Floors</li> <li>6.4) What is the floor structure?</li> <li>This does not include the floor on grade</li> </ul>	Specify o	other.	
<ul> <li>» » 6) Building Elements (Storey )</li> <li>» » » Floors</li> <li>6.4) What is the floor structure?</li> <li>This does not include the floor on grade</li> </ul>			
» » » Floors 6.4) What is the floor structure? This does not include the floor on grade	5.5) Area	a of the storey (estimate the area in square meters).	
6.4) What is the floor structure?  This does not include the floor on grade	» » 6) Bu	uilding Elements (Storey )	
This does not include the floor on grade	» » » Flo	pors	
V NEITHOLCEA COLICIETE 210D		Reinforced concrete slab	
Reinforced brick concrete			

4/56

/1/2016	https://enketo.ona.io/_/#Yh7O
$\bigcirc$	Timber with in-plane bracing
$\bigcirc$	Timber without in-plane bracing
$\bigcirc$	Other
Specify	other.
6.5) Ho	w is the floor structure connected to the wall/frame?
$\bigcirc$	Floor structure fully embedded in wall (full wall thickness bearing)
$\bigcirc$	Floor structure partially embedded in wall
$\bigcirc$	Floor structure anchored/bolted to wall or frame
$\bigcirc$	Floor structure sits on masonry corbel
$\bigcirc$	Don't know
$\bigcirc$	Other
Specify	other.
Comm	ent
Commi	
Take p	hoto
1	

6.6) Condition of Floor		
	For concrete slab floors - rebar exposed	
	For concrete slab floors - evidence of corrosion of rebar	
	For concrete slab floors - cracks in concrete	
	Damage / deterioration to floor connection to wall or frame	
	Damage / deterioration to floor structure	
	Damage / deterioration to floor finish	
	None	
	Don't know	
Comm	ent	
Take p	hata	
Take p		
» » 7) I	_oad Bearing Wall	
» » 7) l	∟oad Bearing Wall	
» » 7) I » » » V		
» » » V		
» » » V	Vall asonry wall type confirmed	
» » » V	Vall asonry wall type confirmed anajor wall type and add comment in case of multiple types	
» » » V	wall asonry wall type confirmed major wall type and add comment in case of multiple types  Dry stone (no mortar)	
» » » V	Wall Asonry wall type confirmed Anajor wall type and add comment in case of multiple types  Dry stone (no mortar)  Stone in cement mortar	
» » » V	Asonry wall type confirmed  major wall type and add comment in case of multiple types  Dry stone (no mortar)  Stone in cement mortar  Brick in cement mortar	
» » » V	Asonry wall type confirmed Inajor wall type and add comment in case of multiple types  Dry stone (no mortar)  Stone in cement mortar  Brick in cement mortar  Stone in mud mortar	
» » » V	Asonry wall type confirmed Anajor wall type and add comment in case of multiple types  Dry stone (no mortar)  Stone in cement mortar  Brick in cement mortar  Stone in mud mortar  Brick in mud mortar	
» » » V	Assonry wall type confirmed Inajor wall type and add comment in case of multiple types  Dry stone (no mortar)  Stone in cement mortar  Brick in cement mortar  Stone in mud mortar  Brick in mud mortar  Stone in mud mortar	

6/56

Other
Specify other.
Comment
7.2) If stone what Type of stone  Rubble Stone (mixed/random)  Rounded Stone
Rectangular Stone (undressed)  Dressed Stone  Semi-Dressed (interior and exterior cut stone with rubble infill)
Comment
Take photo
7.3) Does the building have at least two lines of load bearing wall in each direction?  Redundancy  Yes  No
Comment
Take photo

7.4) Wall thickness (mm)	
Comment	
Гаke photo	
<b>7.5) Wall panel length (m)</b> Length of unsupported wall between buttresses or perpendicular walls. Record longest wall panel leng	gth.
Comment	
Take photo	
7.6) Wall height (m)	
Comment	
Γake photo	

* 7.7) For Single Storey blocks - Combined width of the openings on a wall between two co walls less than 35% of total wall length	onsecutive cross-
Yes (small openings)	
No (large openings)	
O Don't know	
Comment	
Take whete	
Take photo	
† 7.8) For multi-storey - Combined width of the openings on a wall between two consecut than 25% of total wall length	ive cross-walls less
Yes (small openings)	
No (large openings)	
O Don't know	
Comment	
Take photo	
» » Wall Damage / Deterioration to wall structure	
* 7.9) Collapsed wall	
Have any of the walls completely collapsed	
Most walls (50 -99%)	
Limited Number of walls (up to 49%)	
None (0%)	
Comment	

Take phot	<u> </u>
_	ration of walls at corners and junctions er only limited number/portion of walls are separated or if all walls are separated
	corners/junctions (100%)
Омо	ost corners/junctions (50-99%)
O Lin	nited number of corners/junctions (up to 49%)
O No	one (0%)
Comment	
Take phot	О
7.11) Corn	er failure.
Note the nu	umber of corners of the block that have failed.
O All	corners (100%)
Омо	ost corners (75-99%)
O Lin	nited number of corners (30-74%)
O Fee	w corners (1-29%)
7.12) Evide	ence of cracking around openings
O Ne	early all openings (75%+)
Ом	ost openings (30 - 74%)
O Lin	nited Number of Openings (up to 29%)
O No	one (0%)
Comment	
Take phot	0

7.13.1) Extent of typical in-plane wall damage Consider the most common pattern observed.		
Severe [crack widths >= 1/4"(6mm)] or cracking through masonry units		
Moderate [crack widths > 1/8"(3mm) but less than 1/4"(6mm)]		
O Hairline cracking		
Comment		
Take photo		
7.14) Out of plane failure - partial collapse and out of plane offsets  Note if out-of-plane offsets are more than 1/8"(3mm)  Most walls (50-100%)  Limited Number of walls (up to 49%)		
None (0%)		
Comment		
Take photo		
7.15) Delamination of walls		
All walls (100%)		
Most walls (50 - 99%)		
Limited Number of walls (up to 49%)		
None (0%)		
Comment		

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Take ph	ioto
	the masonry deteriorated?
Specify v some ma	whether the masonry can be easily scrapped away/crumbled, if it can be easily removed with hand tool or wh aterial of the fabric or plaster is missing
$\bigcirc$	Yes
$\bigcirc$	No
$\bigcirc$	Don't know
C =	
Comme	Int
Take ph	noto
	arthquake Resistance
	ave seismic enhancements been included in the original construction?  ne or more appropriate options.
	Through stones included with maximum spacing of within 1.2m horizontally and 0.6m vertically.
	Reinforced concrete elements connecting two orthogonal walls at a vertical distance of at least 0.5n
	0.7m
	Wooden elements connecting two orthogonal walls at a vertical distance of at least 0.5m to 0.7m
	Reinforced concrete lintel beams/band beam at the top of wall
	Wooden lintel beams/band beam at the top of wall
	Gable band
	Wooden ties connecting parallel walls (note whether the ties are anchored to the walls or not)
	Metallic ties connecting parallel walls (note whether the ties are anchored to the walls or not)
	None
	Other
Specify	other.

Comment

Take p	hoto
7.18) Is	there any evidence that the school/college has been retrofitted in the past?
	Strengthening to floor / roof (addition of braces, members, supports, etc.)
	Wall jacketing
	RC jacketing of columns and other elements
	Steel jacketing of columns and other elements
	Addition of RC shear wall
	Addition of steel bracing
	Single vertical reinforcement in walls
	Strengthening to foundations
	Reinforcement with welded wire mesh
	Bamboo reinforcing
	Seismic belts
	Post tensioning
	External cane and rope mesh
	External wire mesh reinforcement
	External polymer reinforcement
	Used car tyre straps
	None
	Other
Specify	other.
Comm	ent

ake pho	to
» » Con	nstruction Quality
.19) Spe	cify any structural defect that the structure has, which has not been reported befo
	cribe the overall quality of the construction:  ption and describe in more detail the overall quality of the construction in the Comment field.
	ery good
$\bigcirc$	ood
	egular
O Po	
	ery poor
commen	t
» 8) RC	Eramo
/ // 6) KC	riaine
» » Red	lundancy
	es the structure have two or more lines of concrete frame?
○ Ye	es
O N	0
OD	on't know
Commen	t
3.1.2) Doe	es the structure have two or more bays of RC frame in the shorter direction?
O Ye	es
$\bigcirc$ N	0
OD	on't know

Comment

» » Walls
8.2) Storey height (in meters, Floor to Floor)
* 8.3) Wall panel length (m)  Length of unsupported wall between cross walls or frames.
* 8.4) Typical infill wall material
Brick with mud mortar
Brick with cement mortar
Stone with mud mortar
Stone with cement mortar
Concrete block with cement mortar
Other
Specify other.
Comment  Note if there is mixed types of infill material or atypical type of infill
Take photo
8.5) Typical Exterior infill walls thickness (mm)  If thickness varies in the same floor level, please note in the comment box
Comment

8.6) Typical Interior infill walls thickness (mm)  If thickness varies in the same floor level, please note in the comment box
Comment
** 8.7) What was the sequence of construction for the concrete frame and infill walls?  To determine whether the structure is more like confined masonry construction (walls built first and then reinforced concrete tie beams and columns are cast later) or frame construction with infill walls built after the frame. This influences the degree to which the infill stiffens the frame.  Frame constructed (beams and columns) and then infill walls are constructed.  Columns are constructed, then infill walls, then beams are cast onto top of infill walls.  Walls are constructed first, then concrete columns and beams.  Don't know  Comment
Take photo
Yes  No
<ul><li>» » »Masonry wall offset from frame</li><li>8.8.1) Thickness of masonry wall offset from frame (mm)</li></ul>

8.8.2) Height of masonry wall offset from frame (in meters)	
Comment	
Take photo	
» » » Frame	
8.9) Column sizes	
Less than 9" x 9" (230mm x 230mm)	
9" x 9" (230mm x 230mm)	
9" x 12" (230mm x 300mm)	
12" x 12" (300mm x 300mm)	
Columns with dimensions > 12" (300mm)	
O Don't know	
<b>Comment</b> Note for instance if the size of the columns vary in the same floor, in different directions or if some columns vary in the same floor.	'umns are circular
Take photo	

8.10) Typical Beam spans			
Short direction (in meter	s)		
Long direction (in meters	5)		
Comment			
Take photo			_
8.11) Typical RC Beam siz  Long direction (D x B)	e (in mm)		
D			
В			
Short direction (D x B)			
D			
В			

s 8.12)Short Columns: Is the effective height of columns unrestrained by infill wall or pa times the dimension of the column or 50% of the nominal height of typical columns in	rapets less than 5 that storey.
Yes	
O No	
O Don't know	
Comment	
	_
Take photo	
<b>* 8.12.1) Short-column damage</b> Note whether there is short-column damage and the level of damage. Provide details in the commen	nt field.
Severe (inclined cracks with rebar exposed)	
Moderate (inclined cracks wider than 1mm)	
Minor (cracks smaller than 1mm)	
O No short column damage observed	
Comment	
	_
Take photo	

8.13)Beam-column joint damage
This can be caused by splicing at joints, soft or weak storey failure or shear cracking in joints from demands imposed by infilipanels. Ignore hairline cracks. Note if cracking is greater than 1/8"(3mm)
Extensive damage (more than 75% of beams)
Significant damage (30 - 75% of beams)
Limited damage (up to 30% of beams)
None (0%)
Comment  Specify how many joints have cracks wider than 3mm in terms of most, limited or few?
Take photo
* 8.14) RC Column Damage  This can be caused by short column failure, soft or weak storey or shear cracking from demands imposed by infill panels. Ignore hairline cracks. Note if cracking is greater than 1/4"(6mm)
Extensive damage (more than 75% of beams)
Significant damage (30 - 75% of beams)
Limited damage (up to 30% of beams)
None (0%)
Comment Specify how many columns have cracks wider than 6mm
Take photo

Ignore hairline cracks. Note if cracking is greater than 1/4"(6mm)
Extensive damage (more than 75% of beams)
Significant damage (30 - 75% of beams)
Limited damage (up to 30% of beams)
None (0%)
Comment Specify how many beams have cracks wider than 6mm
Take photo
» » » Infill wall Damage / Deterioration
""" In this wan barrage? beterioration
8.16) Collapsed infill panels  Have any of the infill walls completelly or partially collapsed?
8.16) Collapsed infill panels
8.16) Collapsed infill panels  Have any of the infill walls completelly or partially collapsed?
8.16) Collapsed infill panels  Have any of the infill walls completelly or partially collapsed?  Extensive collapse of panels (75%+)
8.16) Collapsed infill panels  Have any of the infill walls completelly or partially collapsed?  Extensive collapse of panels (75%+)  Most panels (30-74%)
8.16) Collapsed infill panels  Have any of the infill walls completelly or partially collapsed?  Extensive collapse of panels (75%+)  Most panels (30-74%)  Limited Number of panels (up to 30%)
8.16) Collapsed infill panels  Have any of the infill walls completelly or partially collapsed?  Extensive collapse of panels (75%+)  Most panels (30-74%)  Limited Number of panels (up to 30%)  None (0%)
8.16) Collapsed infill panels  Have any of the infill walls completelly or partially collapsed?  Extensive collapse of panels (75%+)  Most panels (30-74%)  Limited Number of panels (up to 30%)  None (0%)

8.17) Evidence of cracking around openings	
Nearly all openings (75%+)	
Most openings (30 - 74%)	
Limited Number of Openings (up to 29%)	
None (0%)	
Comment	
Take photo	-
	J
8.17.1) Extent of cracking typically around openings	
Severe [crack widths >=1/4"(6mm)]	
Moderate [crack widths >1/8"(3mm) but less than 1/4"(6mm)]	
O Hairline cracking	
Comment	
	_
Take photo	
8.18)In-plane failure of infill masonry walls - Is there evidence of diagonal cracking of in of bed-joints?	nfill walls or cracking
<i>In addition to tick box note if there is a stairstepped crack pattern and if more than 5% of courses haunits</i>	ve cracks in masonry
Nearly all panels (75%+)	
Most panels (30 - 74%)	
Limited Number of panels (up to 29%)	
None (0%)	

Comment

Take pho	to	
8.18.1) Ex	tent of in-plane wall damage	
O Se	evere [crack widths >= 1/4"(6mm)] or cracking through masonry units	
Ом	oderate [crack widths > 1/8"(3mm) but less than 1/4"(6mm)]	
Он	airline cracking	
Commen	t	
Tako nho	**	
Take pho	to	
	king at perimeter of panel of Infill walls (may possibly include hairline diagon to tick box note if any joint cracks (including diagonally oriented cracks) are more than 1/4	
O N	early all panels (75%+)	
Ом	ost panels (30 - 74%)	
O Li	mited Number of panels (up to 29%)	
	one (0%)	
C		
<b>Commen</b> Specify if ti	<b>t</b> he cracks are at wall/beam joints or wall/column joints or at both	
-		
Take pho	to	

» » General Damage / Deterioration

	eneral condition of the frame and infill walls
	Deteriorated masonry
	Deteriorated mortar
	Exposed rebar in columns
	Exposed rebar in beams
	Evidence of corrosion of rebar in beams
	Evidence of corrosion of rebar in the columns
	No damage/deterioration
	Other
Specify	y other.
Take p	h.e.t.
	noto
	noto
	arthquake Resistance
	arthquake Resistance s there any evidence that the school/college has been retrofitted in the past?
	Sarthquake Resistance Sthere any evidence that the school/college has been retrofitted in the past?  Used car tyre straps
	arthquake Resistance s there any evidence that the school/college has been retrofitted in the past?
	Sarthquake Resistance So there any evidence that the school/college has been retrofitted in the past?  Used car tyre straps  Strengthening to foundations
	Sarthquake Resistance Sthere any evidence that the school/college has been retrofitted in the past?  Used car tyre straps  Strengthening to foundations  RC jacketing of columns and other elements
	Sarthquake Resistance Sthere any evidence that the school/college has been retrofitted in the past?  Used car tyre straps  Strengthening to foundations  RC jacketing of columns and other elements  Steel jacketing of columns and other elements
	Sarthquake Resistance Sthere any evidence that the school/college has been retrofitted in the past?  Used car tyre straps  Strengthening to foundations  RC jacketing of columns and other elements  Steel jacketing of columns and other elements  Addition of RC shear wall

Specify o	ther.
Commen	t
Take pho	oto
» » » Cor	nstruction Quality
8.22) Spe	cify any structural defect that the structure has, which has not been reported befor
	<b>cribe the overall quality of the construction:</b> ption and describe in more detail the overall quality of the construction in the Comment field.
$\bigcirc$	ery good
$\bigcirc$ G	ood
$\bigcirc$ R	egular
O P	oor
O v	ery poor
Commen	t
» » 9) Ste	eel Frame
» » » Ste	el Structure

9.1) Type of frame	
0.4.4) Suggestion of main singly carbinal at all more hour	
9.1.1) Cross-section of principal vertical steel members	
Hollow section (tubular)	
Hollow section (square or rectangular)	
I - section	
C - section	
Angle section	
T - section	
Double channel back to back	
Double channel front to front	
Double angle-box	
Other	
Specify Other	
0.1.2) Compostions within from	_
9.1.2) Connections within frame	
Welded	
Bolted	
Other	
Specify other.	
	_
9.1.3) Maximum size of the typical post	
<50mm	
O 50-99mm	
O 100-150mm	
>150mm	

9.1.4) Protection of the frame
O GI frame
GI post and other member enameled
GI post and other member unprotected
Enameled Iron frame
O Uncolored iron frame
Other
Specify other.
»» » Infill Walls
9.2) Is the infill wall made or partially made of masonry?  Yes
○ No
O Don't know
Comment
<sup>5</sup> 9.3) Type of wall
Masonry, full height of the wall
Masonry, up to sill level
CGI, full height of the wall
CGI, from sill level to roof
Don't know
Other
Specify other.

9.4) Is t	he masonry wall built in line with the steel frame or offset from the frame
$\bigcirc$	Inline and inbetween the metal frame
$\bigcirc$	Inline and surrounding the metal frame
$\bigcirc$	Offset from the metal frame
$\bigcirc$	Don't know
Commo	ent
9.5) Ma	sonry wall type confirmed
$\bigcirc$	Dry stone (no mortar)
$\bigcirc$	Stone in cement mortar
$\bigcirc$	Brick in cement mortar
$\bigcirc$	Stone in mud mortar
$\bigcirc$	Brick in mud mortar
$\bigcirc$	Stone in mud mortar with cement mortar pointing
$\bigcirc$	Brick in mud mortar with cement mortar pointing
$\bigcirc$	Adobe in mud mortar
$\bigcirc$	Compressed Stabilised Soil Blocks in mud mortar
$\bigcirc$	Other
Specify	other.

9.6) If s	tone what type of stone
$\bigcirc$	Rubble Stone (mixed/random)
$\bigcirc$	Rounded Stone
$\bigcirc$	Rectangular Stone (undressed)
$\bigcirc$	Dressed Stone
0	Semi-Dressed (interior and exterior cut stone with rubble infill)
Comm	ent
Take p	hoto
9.7) Ty	pical wall thickness (mm)
Comm	ant
Commi	
Take p	hoto
	<b>ills panel length (m)</b> of unsupported wall between buttresses or perpendicular walls. Record panel length of gable wall.
J	
Comm	ent
Tale	
Take p	noto

9.9) Wall height (m) Excluding gable if any	
Comment	
Take photo	<u>-</u>
9.10)Is combined width of the openings on a wall	J
between two consecutive cross-walls less than 35% of total wall length Provide details	
Yes (small openings)	
No (large openings)	
O Don't know	
Comment	_
Take photo	٦
» » » Damage and condition of Steel Structure	J
9.11) Damage and condition of Steel Structure	
9.11.1) Damage	
Most connections within the frame failed (more than 50% of the connections)	
Limited number of connections within the frame failed	
Connections of the frame to foundation failed	
Connections of the frame to roof/floor structure failed	

4/1/2016	https://enketo.ona.io/_/#Yh7O
ш	Steel frame buckled
	No damage
	Other
Specif	y other.
Comm	ent
Tako n	hata
Take p	moto
* 9.11.2)	Condition
$\bigcirc$	Evidence of severe corrosion (loss of section)
$\bigcirc$	Evidence of minor corrosion (some rusting)
0	No deterioration
$\bigcirc$	Other
Specif	y other.
Specif	y other.
Comm	ent
Take p	hoto
9.12) Is	s the frame re-usable?
$\bigcirc$	Yes, completely re-usable
$\bigcap$	Yes, but only partially re-usable
O	No
$\bigcirc$	Don't know

Comment

Estimate the % that is re-usable if only a portion of the frame is re-usable.

## » » Walls Damage / Deterioration to Wall Structure

9.13) C	ollapsed wall - Have any of the walls completely collapsed?
$\bigcirc$	Most walls (50 -99%)
$\bigcirc$	Limited Number of walls (up to 49%)
$\bigcirc$	None (0%)
Comm	ent
Take p	hoto
9.14) E	vidence of cracking around openings?
$\bigcirc$	Nearly all openings (75%+)
$\bigcirc$	Most openings (30 - 74%)
$\bigcirc$	Limited Number of Openings (up to 29%)
$\bigcirc$	None (0%)
Comm	ent
Take p	hoto
9.14.1)	Extent of cracking typically around openings
$\bigcirc$	Severe [crack widths >=1/4"(6mm)]
$\bigcirc$	Moderate [crack widths >1/8"(3mm) but less than 1/4"(6mm)]
$\bigcirc$	Hairline cracking
Comm	ent
Take p	hoto

<b>9.15) In-plane failure of masonry walls - Is there evidence of diagonal or bed joint crack</b> Ignore hairline cracks. In addition to tick box note if there is a stairstepped crack pattern and if more cracks in masonry units.	•
Nearly all panels (75%+)	
Most panels (30 - 74%)	
Limited Number of panels (up to 29%)	
O None (0%)	
Comment	
Take photo	-
9.15.1) Extent of in-plane wall damage  Consider the most common pattern observed.	
Severe [crack widths >= 1/4"(6mm)] or cracking through masonry units	
Moderate [crack widths > 1/8"(3mm) but less than 1/4"(6mm)]	
O Hairline cracking	
Comment	
	_
Take photo	

	paration of walls at corners and junctions nether only limited number/portion of walls are separated or if all walls are separated
$\bigcirc$	All corners/junctions (100%)
$\bigcirc$	Most corners/junctions (50-99%)
$\bigcirc$	Limited number of corners/junctions (up to 49%)
$\bigcirc$	None (0%)
Commo	ent
Take p	hoto
	ut of plane failure - partial collapse and out of plane offsets out-of-plane offsets are more than 1/8"(3mm)
$\bigcirc$	Most walls (50-100%)
$\bigcirc$	Limited Number of walls (up to 49%)
$\bigcirc$	None (0%)
Comm	ent
Take p	hoto
9.18) D	elamination of walls
$\bigcirc$	All walls (100%)
$\bigcirc$	Most walls (50 - 99%)
$\bigcirc$	Limited Number of walls (up to 49%)
$\bigcirc$	None (0%)

Comment

Гake photo
9.19) Is the masonry deteriorated? Specify whether the masonry can be easily scrapped away/crumbled, if it can be easily removed with hand tool or whether some material of the fabric or plaster is missing  Yes  No  Don't know
Comment
Γake photo
» » » Earthquake Resistance
9.20) Have seismic enhancements been included in the original construction?
Through stones included with maximum spacing of within 1.2m horizontally and 0.6m vertically.
Reinforced concrete elements connecting two orthogonal walls at a vertical distance of at least 0.5m to 0.7m
Wooden elements connecting two orthogonal walls at a vertical distance of at least 0.5m to 0.7m
Reinforced concrete lintel beams / band beam at the top of the wall
Steel lintel beams / band beam at the top of the wall
Gable band
Steel ties connecting parallel walls (note whether the ties are anchored to the walls)
Other
None
Specify other.
Comment

	noto
21) Ha	as the education facility been retrofitted?
	Strengthening to floor / roof (addition of braces, members, supports, etc.)
	Wall jacketing
	RC jacketing of columns and other elements
	Steel jacketing of columns and other elements
	Addition of RC shear wall
	Addition of steel bracing
	Single vertical reinforcement in walls
	Strengthening to foundations
	Reinforcement with welded wire mesh
	Bamboo reinforcing
	Seismic belts
	Post tensioning
	External cane and rope mesh
	External wire mesh reinforcement
	External polymer reinforcement
	Used car tyre straps
	None
	Other
ecify	other.
mme	ent
ke pl	noto

» » Construction Quality		
9.22) Specify any structural defect that the structure has, which has not been reported befo	re :	
<b>9.23) Describe the overall quality of the construction:</b> Tick one option and describe in more detail the overall quality of the construction in the Comment field.		
O Very good		
Good		
Regular		
Poor		
O Very poor		
Comment		
» » 10) Timber Frame		
» » » Timber Structure		
<sup>4</sup> 10.1) Type of structure		
Structural timber panels (includes panels with canes/bamboo as infill)		
Timber frame with masonry walls		
Traditional Newari construction		
O Don't know		
Other		
Specify other.		
Comment  describe briefly the structural system		

Take photo

1/2016	https://enketo.ona.io/_/#Yh7O	
10 2) Torres of frances		
10.2) Type of frame		
10.2.1) Typical cross-sec	ction of principal members (posts and girders)	
Round / Oval		
Rectangular		
Trapezoid		
Don't know		
Other		
Specify other.		
. ,		
Take photo		
10.2.2) Connections wit	hin the frame and structural panels	,
Carpentry joints		
Mechanical conn	ections (with mechanical fasteners, for instance nails or screws)	
Other		
Specify other.		
openity officers		
		-
<b>Comment</b> describe briefly the connec	tions	
describe briefly the confiec	lions	
		-
Take photo		

* 10.3.1) Timber species of the principal structural elements (posts and girders)			
Hardwood			
Softwood			
Mixed			
Don't know			
* 10.3.1.1) Specify the timber species of the principal structural elements  Hardwood			
Sal			
Teak			
Sisau			
Don't know			
Other			
Specify other.			
Comment			
Comment			
* 10.3.1.2) Specify the timber specie of the principal structural elements  Softwood			
* 10.3.1.2) Specify the timber specie of the principal structural elements			
* 10.3.1.2) Specify the timber specie of the principal structural elements  Softwood			
* 10.3.1.2) Specify the timber specie of the principal structural elements  Softwood  Salla			
* 10.3.1.2) Specify the timber specie of the principal structural elements  Softwood  Salla  Mango			
* 10.3.1.2) Specify the timber specie of the principal structural elements  Softwood  Salla  Mango  Don't know			

» » » Infill walls	
10.4) Type of infill	
10.4.1) Is the infill wall made or partially made of masonry?  Includes structural timber panels with masonry infill  Yes	
O No	
O Don't know	
Comment	
10.4.2) Is the infill wall made or partially made of canes/bamboo with mortar?	
Yes	
O No	
O Don't know	
Comment	
10.5) Is the masonry wall built in line with the timber frame or offset from the frame	
Inline and inbetween the timber frame	
O Inline and surrounding the timber frame	
Offset from the timber frame	
O Don't know	
Comment	
Take photo	
Take photo	

10.6) Masonry wall type		
$\bigcirc$	Dry stone (no mortar)	
$\bigcirc$	Stone in cement mortar	
$\bigcirc$	Brick in cement mortar	
$\bigcirc$	Stone in mud mortar	
$\bigcirc$	Brick in mud mortar	
$\bigcirc$	Stone in mud mortar with cement mortar pointing	
$\bigcirc$	Brick in mud mortar with cement mortar pointing	
$\bigcirc$	Adobe in mud mortar	
$\bigcirc$	Compressed Stabilised Soil Blocks in mud mortar	
$\bigcirc$	Other	
Specify	other.	
Commo	ent	
Take p	hoto	
10.6.1)	If stone, What type of stone?	
$\bigcirc$	Rubble Stone (mixed/random)	
$\bigcirc$	Rounded Stone	
$\bigcirc$	Rectangular Stone (undressed)	
$\bigcirc$	Dressed Stone	
$\bigcirc$	Semi-Dressed (interior and exterior cut stone with rubble infill)	

<b>&gt;&gt;</b>	<b>&gt;&gt;</b>	<b>&gt;&gt;</b>	Walls
-----------------	-----------------	-----------------	-------

10.7) Typical wall thickness (in mm)	
Comment	
Take photo	
* 10.8) Walls panel length (in m)  Typical wall panel length (between posts or load-bearing perpendicular walls)	
Comment	
Take photo	
10.9) Wall height (in m)	
Comment	
* 10.10) Is combined width of the openings on a wall between two consetotal wall length  Provide details	cutive cross-walls less than 35% of
Yes (small openings)  No (large openings)  Don't know	
Comment	

** ** Damage and Condition of Timber Structure    10.11) Damage of the timber frame (includes wall panels if part of the main structure)	ake pl	noto
0.11.1) Damage of the timber frame (includes wall panels if part of the main structure)    Most connections within the frame failed (more than 50% of the connections)   Limited number of connections within the frame failed   Connections of the frame to foundation failed   Connections of the frame to the roof/floor structures failed   Timber members have large permanent deformations   Evidence of cracks (shear, tension) in timber members   Evidence of crushing of timber members   Evidence of cracks at the surface of the wall at location of timber members   No damage   Other   Other   Other	»»»D	amage and Condition of Timber Structure
Most connections within the frame failed (more than 50% of the connections)  Limited number of connections within the frame failed  Connections of the frame to foundation failed  Connections of the frame to the roof/floor structures failed  Timber members have large permanent deformations  Evidence of cracks (shear, tension) in timber members  Evidence of cracks (shear, tension) in timber members  Evidence of cracks at the surface of the wall at location of timber members  No damage  Other  Decify other.	10.11)	Damage and condition
Limited number of connections within the frame failed  Connections of the frame to foundation failed  Connections of the frame to the roof/floor structures failed  Timber members have large permanent deformations  Evidence of cracks (shear, tension) in timber members  Evidence of crushing of timber members  Evidence of cracks at the surface of the wall at location of timber members  No damage  Other  Decify other.  Comment  escribe briefly the damage observed  ake photo ake additional photos to properly record the damage if needed.  D.11.2) Condition of the timber frame (includes wall panels if part of the main structure)  Evidence of severe rotting of wood (loss of section)	<b>0.11.1</b>	Damage of the timber frame (includes wall panels if part of the main structure)
Connections of the frame to foundation failed  Connections of the frame to the roof/floor structures failed  Timber members have large permanent deformations  Evidence of cracks (shear, tension) in timber members  Evidence of cracks at the surface of the wall at location of timber members  No damage  Other  pecify other.  Omment escribe briefly the damage observed  ake photo ake additional photos to properly record the damage if needed.  O.11.2) Condition of the timber frame (includes wall panels if part of the main structure)  Evidence of severe rotting of wood (loss of section)		Most connections within the frame failed (more than 50% of the connections)
Connections of the frame to the roof/floor structures failed Timber members have large permanent deformations Evidence of cracks (shear, tension) in timber members Evidence of crushing of timber members Evidence of cracks at the surface of the wall at location of timber members No damage Other  pecify other.  omment escribe briefly the damage observed  ake photo ake additional photos to properly record the damage if needed.  0.11.2) Condition of the timber frame (includes wall panels if part of the main structure) Evidence of severe rotting of wood (loss of section)		Limited number of connections within the frame failed
Timber members have large permanent deformations  Evidence of cracks (shear, tension) in timber members  Evidence of crushing of timber members  Evidence of cracks at the surface of the wall at location of timber members  No damage  Other  Other  pecify other.   ake photo ake additional photos to properly record the damage if needed.  0.11.2) Condition of the timber frame (includes wall panels if part of the main structure)  Evidence of severe rotting of wood (loss of section)		Connections of the frame to foundation failed
Evidence of cracks (shear, tension) in timber members  Evidence of crushing of timber members  Evidence of cracks at the surface of the wall at location of timber members  No damage  Other  pecify other.   omment escribe briefly the damage observed  ake photo ake additional photos to properly record the damage if needed.  0.11.2) Condition of the timber frame (includes wall panels if part of the main structure)  Evidence of severe rotting of wood (loss of section)		Connections of the frame to the roof/floor structures failed
Evidence of crushing of timber members  Evidence of cracks at the surface of the wall at location of timber members  No damage  Other  pecify other.   omment  escribe briefly the damage observed  ake photo ake additional photos to properly record the damage if needed.  0.11.2) Condition of the timber frame (includes wall panels if part of the main structure)  Evidence of severe rotting of wood (loss of section)		Timber members have large permanent deformations
Evidence of cracks at the surface of the wall at location of timber members  No damage Other  pecify other.  omment escribe briefly the damage observed  ake photo ake additional photos to properly record the damage if needed.  0.11.2) Condition of the timber frame (includes wall panels if part of the main structure)  Evidence of severe rotting of wood (loss of section)		Evidence of cracks (shear, tension) in timber members
No damage  Other  pecify other.  comment escribe briefly the damage observed  ake photo ake additional photos to properly record the damage if needed.  0.11.2) Condition of the timber frame (includes wall panels if part of the main structure)  Evidence of severe rotting of wood (loss of section)		Evidence of crushing of timber members
Other  pecify other.  omment escribe briefly the damage observed  ake photo ake additional photos to properly record the damage if needed.  0.11.2) Condition of the timber frame (includes wall panels if part of the main structure)  Evidence of severe rotting of wood (loss of section)		Evidence of cracks at the surface of the wall at location of timber members
omment escribe briefly the damage observed  ake photo ake additional photos to properly record the damage if needed.  0.11.2) Condition of the timber frame (includes wall panels if part of the main structure)  Evidence of severe rotting of wood (loss of section)		No damage
omment escribe briefly the damage observed  ake photo ake additional photos to properly record the damage if needed.  0.11.2) Condition of the timber frame (includes wall panels if part of the main structure)  Evidence of severe rotting of wood (loss of section)		Other
ake photo ake additional photos to properly record the damage if needed.  0.11.2) Condition of the timber frame (includes wall panels if part of the main structure)  Evidence of severe rotting of wood (loss of section)	pecify	other.
ake photo ake additional photos to properly record the damage if needed.  0.11.2) Condition of the timber frame (includes wall panels if part of the main structure)  Evidence of severe rotting of wood (loss of section)		
O.11.2) Condition of the timber frame (includes wall panels if part of the main structure)  Evidence of severe rotting of wood (loss of section)		
Evidence of severe rotting of wood (loss of section)	-	
	0.11.2	
Evidence of minor rotting of wood (some rusting)		
		Evidence of minor rotting of wood (some rusting)

4/1/2016	https://enketo.ona.io/_/#Yh7O
	Corrosion of metallic elements of the timber frame
	No deterioration
	Other
Specif	y other.
<b>Comm</b> describ	nent be briefly the deterioration observed
Take p	photo
* 10 12)	Is the timber frame to usable?
10.12)	Is the timber frame re-usable?  Yes, completely re-usable
$\bigcirc$	
	Yes, but only partially re-usable
$\circ$	No
$\bigcirc$	Don't know
<b>Comm</b> <i>Estima</i>	<b>nent</b> te the % that is re-usable if only a portion of the frame is re-usable.
	Walls Damage / Deterioration to Wall Structure
* 10.13)	Collapsed walls - Have any of the walls completely collapsed?
	Most walls (50 -99%)
	Limited Number of walls (up to 49%)
$\bigcirc$	None (0%)
Comm	nent
Take p	photo

10.14) Evidence of cracking around openings?	
Nearly all openings (75%+)	
Most openings (30 - 74%)	
Limited Number of Openings (up to 29%)	
None (0%)	
Comment	
	-
Take photo	
40.44.4) Extent of quadring typically avound anonings	
10.14.1) Extent of cracking typically around openings  Severe [crack widths >=1/4"(6mm)]	
Moderate [crack widths >1/8"(3mm) but less than 1/4"(6mm)]	
Hairline cracking	
Comment	
	-
Take photo	)
10.15) In-plane failure of masonry walls - Is there evidence of diagonal or bed joint crac	cking
Ignore hairline cracks. In addition to tick box note if there is a stairstepped crack pattern and if more cracks in masonry units.	•
Nearly all panels (75%+)	
Most panels (30 - 74%)	
Limited Number of panels (up to 29%)	
None (0%)	

Comment

Take ph	oto
	Extent of in-plane wall damage
	the most common pattern observed.
	Severe [crack widths >= 1/4"(6mm)] or cracking through masonry units
$\bigcirc$	Moderate [crack widths > 1/8"(3mm) but less than 1/4"(6mm)]
$\bigcirc$	Hairline cracking
Comme	nt
Take ph	oto
	eparation of walls at corners and junctions
	ether only limited number/portion of walls are separated or if all walls are separated
	All corners/junctions (100%)
$\bigcirc$	Most corners/junctions (50-99%)
$\bigcirc$	Limited number of corners/junctions (up to 49%)
$\bigcirc$	None (0%)
Comme	nt
Take ph	oto
	ut-of-plane failure - partial collapse and out of plane offsets ut-of-plane offsets are more than 1/8" (3mm)
	Most walls (50-100%)
	Limited Number of walls (up to 49%)
$\cup$	None (0%)
Comme	nt

Take photo		
10.18) Delamination of walls		
All walls (100%)		
Most walls (50 - 99%)		
Limited Number of walls (up to 49%)		
None (0%)		
Comment		
Comment		
Take photo		
<b>10.19) Is the masonry deteriorated</b> Specify whether the masonry can be easily scrapped away/crumbled, if it can be easily some material of the fabric or plaster is missing	ily removed with hand too	l or whether
Yes		
O No		
O Don't know		
Comment		
Take photo		

» » » Earthquake Resistance

10.20)	Have seismic enhancements been included in the original construction?	
$\bigcirc$	Through stones included with maximum spacing of within 1.2m horizontally and 0.6i	m vertically.
$\bigcirc$	Reinforced concrete elements connecting two orthogonal walls at a vertical distance 0.7m	of at least 0.5m to
$\bigcirc$	Wooden elements connecting two orthogonal walls at a vertical distance of at least 0	).5m to 0.7m
$\bigcirc$	Wooden lintel band beams at the top of the wall	
$\bigcirc$	Gable band	
$\bigcirc$	Wooden ties connecting parallel walls (note whether the tie-beams are anchored to t	the walls)
$\bigcirc$	Steel ties connecting parallel walls (note whether the tie-beams are anchored to the	walls)
$\bigcirc$	None	
$\bigcirc$	Other	
Specify	y other.	
Comm	ent	-
Take p	hoto	-

Strengthening to floor / roof (addition of braces, members, supports, etc.)  Wall jacketing  RC jacketing of columns and other elements  Steel jacketing of columns and other elements  Addition of RC shear wall  Addition of steel bracing  Single vertical reinforcement in walls  Strengthening to foundations  Reinforcement with welded wire mesh  Bamboo reinforcing  Seismic belts  Post tensioning  External cane and rope mesh  External wire mesh reinforcement  Used car tyre straps  None  Other  Specify other.  Take photo	10.21)	Has the education facility been retrofitted?
RC jacketing of columns and other elements  Steel jacketing of columns and other elements  Addition of RC shear wall  Addition of steel bracing  Single vertical reinforcement in walls  Strengthening to foundations  Reinforcement with welded wire mesh  Bamboo reinforcing  Seismic belts  Post tensioning  External cane and rope mesh  External wire mesh reinforcement  External polymer reinforcement  Used car tyre straps  None  Other  Specify other.		Strengthening to floor / roof (addition of braces, members, supports, etc.)
Steel jacketing of columns and other elements Addition of RC shear wall Addition of steel bracing Single vertical reinforcement in walls Strengthening to foundations Reinforcement with welded wire mesh Bamboo reinforcing Seismic belts Post tensioning External cane and rope mesh External wire mesh reinforcement External polymer reinforcement Used car tyre straps None Other  Specify other.  Comment		Wall jacketing
Addition of RC shear wall Addition of steel bracing Single vertical reinforcement in walls Strengthening to foundations Reinforcement with welded wire mesh Bamboo reinforcing Seismic belts Post tensioning External cane and rope mesh External wire mesh reinforcement External polymer reinforcement Used car tyre straps None Other  Specify other.		RC jacketing of columns and other elements
Addition of steel bracing  Single vertical reinforcement in walls  Strengthening to foundations  Reinforcement with welded wire mesh  Bamboo reinforcing  Seismic belts  Post tensioning  External cane and rope mesh  External wire mesh reinforcement  External polymer reinforcement  Used car tyre straps  None  Other  Specify other.		Steel jacketing of columns and other elements
Single vertical reinforcement in walls  Strengthening to foundations  Reinforcement with welded wire mesh  Bamboo reinforcing  Seismic belts  Post tensioning  External cane and rope mesh  External wire mesh reinforcement  External polymer reinforcement  Used car tyre straps  None  Other  Specify other.		Addition of RC shear wall
Strengthening to foundations Reinforcement with welded wire mesh Bamboo reinforcing Seismic belts Post tensioning External cane and rope mesh External wire mesh reinforcement External polymer reinforcement Used car tyre straps None Other  Specify other.  Comment		Addition of steel bracing
Reinforcement with welded wire mesh Bamboo reinforcing Seismic belts Post tensioning External cane and rope mesh External wire mesh reinforcement External polymer reinforcement Used car tyre straps None Other  Specify other.  Comment		Single vertical reinforcement in walls
Bamboo reinforcing Seismic belts Post tensioning External cane and rope mesh External wire mesh reinforcement External polymer reinforcement Used car tyre straps None Other Specify other.  Comment		Strengthening to foundations
Seismic belts Post tensioning External cane and rope mesh External wire mesh reinforcement External polymer reinforcement Used car tyre straps None Other  Specify other.  Comment		Reinforcement with welded wire mesh
Post tensioning  External cane and rope mesh  External wire mesh reinforcement  External polymer reinforcement  Used car tyre straps  None  Other  Specify other.  Comment		Bamboo reinforcing
External cane and rope mesh  External wire mesh reinforcement  External polymer reinforcement  Used car tyre straps  None  Other  Specify other.  Comment		Seismic belts
External wire mesh reinforcement  External polymer reinforcement  Used car tyre straps  None  Other  Specify other.  Comment		Post tensioning
External polymer reinforcement Used car tyre straps None Other  Specify other.  Comment		External cane and rope mesh
Used car tyre straps None Other  Specify other.  Comment		External wire mesh reinforcement
None Other  Specify other.  Comment		External polymer reinforcement
Other  Specify other.  Comment		Used car tyre straps
Specify other.  Comment		None
Comment		Other
	Specify	other.
Take photo	Comment	
	Take p	hoto

» » Construction Quality	
10.22) Specify any structural defect that the structure has, which has not been reported befo	
<b>f 10.23) Describe the overall quality of the construction</b> Tick one option and describe in more detail the overall quality of the cor	nstruction in the Comment field.
O Very good	
Good	
Regular	
Poor	
O Very poor	
Comment	
Roof	
.7) What is the shape of the roof?	
O Flat	
Single pitch	
O Double pitch	
Other	
pecify other.	
Comment	
ake photo	
1 · · · ·	

-	nat is the roofing structure?
$\bigcirc$	Metal Truss with inplane bracing
$\bigcirc$	Metal truss without inplane bracing
$\bigcirc$	Timber truss with inplane bracing
$\bigcirc$	Timber truss without inplane bracing
$\bigcirc$	Reinforced concrete slab
$\bigcirc$	Timber Joist
$\bigcirc$	Other
Specify	other.
Comm	ent
Take p	hata
6.8.1) I	f not reinforced concrete slab what is the roofing material?
6.8.1) I	
6.8.1) I	f not reinforced concrete slab what is the roofing material?
0	f not reinforced concrete slab what is the roofing material?
0 0	f not reinforced concrete slab what is the roofing material?  CGI  Thatch
0 0 0 0	f not reinforced concrete slab what is the roofing material?  CGI  Thatch  Clay tiles
	f not reinforced concrete slab what is the roofing material?  CGI  Thatch  Clay tiles  Slate tiles

Take photo	
6.8.2) Is the roof covering adequately tied to the roof structure to resist wind uplift?	
Yes	
○ No	
If yes: Please specify how the roof covering is tied to the roof structure	
O J - hooks	
Nails	
Screws	
Other	
Charles ather	
Specify other.	
Comment	
Take photo	
6.8.3) How is the Roof structure connected to the wall / frame?	
Roof structure sits (not connected) on wall or column	
Roof structure fully embedded in wall	
Roof structure partially embedded in wall	
Roof structure strapped	
Roof structure anchored to wall	
Roof structure bolted to frame	
O Don't know	
Other Other	
Specify other.	

Comment	
Take photo	
6.9) Condition of Roof	
For concrete slab roofs - Rebar exposed	
For concrete slab roofs - evidence of corrosion of rebar	
For concrete slab roofs - Cracking in concrete	
Damage to the connection of the roof structure with the wall or frame	
Damage to the structure (trusses, joists, purlins, beams, etc.)	
Damage to roof covering	
None	
Don't know	
Comment	
Take photo	
•	
6.10) Gable walls damage  Total or partial wall collapse	
All walls (100%)	
Most walls (50 - 99%)	
Some walls (25 – 49%)	
None (0%)	
O Not applicable	
Comment	
Take photo	

6.44) Ave there any neverete?
6.11) Are there any parapets?  Yes
O No
○ No
Comment
Take photo
6.11.1) What is the parapet height? (meters)
6.11.2) What is the parapet thickness? (mm)
6.11.3) Are the parapets damaged?
O Total collapse
O Partial collapse
Minor damage
O No damage
Take photo
6.12) Are there any pediments?
Yes

6.12.1)	Are the pediments damaged?
$\bigcirc$	Total collapse
$\bigcirc$	Partial collapse
$\bigcirc$	Minor damage
$\bigcirc$	No damage
Take pl	hoto