

## Annex I. Waste needs assessment - emergency phase

<b>People in the affected area</b>				Comments
Estimate percentage			%	
<b>IDP camps</b>				
How many IDP camps are established?			Nos	
Estimate percentage of population staying in the camps			%	
How is waste management arranged?			Nos	
Collection				Bins___ Street Pile___ Others - what_____
Treatment				Dumpsites___ Open burning___ Others - what_____
Estimate the amount of IDP waste collected			%	
<b>Immediate needs</b>				
<b>Condition of buildings</b>				Comments
Estimate total destruction as percentage			%	
Estimate intact buildings as percentage			%	
Which is the main construction material used in the disaster area?				Concrete___ Bricks___ Board___ Tins___
Estimate the total amount of rubble and debris from buildings			m3	Square metres covered x height
<b>Immediate needs</b>				
<b>Conditions of other infrastructure. Are:</b>	Yes	No		Comments
Roads and streets functioning?			%	If not, describe damage and debris potential in separate sheet
Water distribution functioning?			%	
Waste water collection and drainage functioning?			%	
Land line telecommunications functioning?			%	
Mobile telephones functioning?			%	
Internet functioning?			%	
Electricity distribution functioning?			%	
<b>Immediate needs</b>				

Continued...

Annex I. Waste needs assessment - emergency phase, continued				
<b>Hospitals and health care centers</b>	Yes	No		Comments
Are hospitals and clinics functioning?				
Is their waste being managed?				If yes go to healthcare sheet
Is there information about infectious waste?				If yes go to healthcare sheet
Is there information about other healthcare waste?				
Are there temporary clinics/hospitals?				If yes go to healthcare sheet
If so, many beds (capacity)do they have?				
Is there any information about waste collection from the temporary hospitals/clinics				If yes go to healthcare sheet
<b>Immediate needs</b>				
<b>Industries and other commercial activities</b>	Yes	No		Comments
What kind of industries were located in the disaster area?				Give details on the industrial waste sheet!
Are they intact?				
Is there any information about input chemicals?				Give details on the industrial waste sheet!
Is there any information about hazardous waste?				Give details on the industrial waste sheet!
<b>Immediate needs</b>				
<b>Municipal waste management</b>	Yes	No		Comments
To what extent has it recovered and is it functioning?			%	
Are waste management vehicles intact?			Nos	If not, describe the problems
Are employees alive and still in the area?				
Is there fuel available for the vehicles?				
Is the dumpsite intact?				If no: describe the problems
Are the access-roads to the dumpsite intact?				If no: describe the problems
Are there any temporary dumpsites?				
If so, where are they located?				
Are there any other waste treatment plants in the area?				If yes: describe
<b>Immediate needs</b>				
<b>Hazardous waste</b>	Yes	No		
HW among industrial debris and rubble				Be aware of the risk for asbestos!
HW from industries				
Hazardous and electronic waste from telecom				
Hazardous and electronic waste from electrical grid				
Hazardous and electronic waste from municipal waste				Be aware of "under the sink items"
<b>Prompt needs</b>				

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## Annex I. Waste needs assessment - emergency phase, continued

Infrastructure debris assessment	
	Notes
<b>Roads</b>	
Tar road debris	
Dirt road debris	
<b>Streets</b>	
Tar street debris	
Mud street debris	
<b>Water distribution system</b>	
Debris from water works	
Pipes	
<b>Wastewater collection system</b>	
Debris from waste water treatment plants	
Pipes	
<b>Other drainage systems</b>	
Debris from broken drains	
Waste clogging the drains	
<b>Landline telecommunication</b>	
Poles	
Dig down cable	
Open hanging cable	
<b>Mobile telecommunication</b>	
Antenna masts	Electronic waste on downed masts
Others	
<b>Internet</b>	
Dig down cable	
Open hanging cable	
<b>Electricity grid</b>	
Poles	
Dig down cable	
Open hanging cable	
Transformers	Electronic waste, transformer oil

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**Annex I. Waste needs assessment - emergency phase, continued**

**Healthcare waste assessment**

Estimate from a few hospitals/clinics	Notes
Is the waste taken care of?	
Segregation?	
Collection?	
Treatment?	Dumpsites___ Engineered dumpsites___ Incineration___
Is there any information about infectious waste?	
Segregation?	
Collection?	
Treatment?	Dumpsites___ Engineered dumpsites___ Incineration___
Is there any information about other waste from hospitals and clinics?	
Segregation?	
Collection?	
Treatment?	Dumpsites___ Engineered dumpsites___ Incineration___
Are there any temporary clinics/hospitals?	
How many beds do they cover?	
Estimate the generation of healthcare waste	
Estimate the composition of the waste	
Is there any information about waste collection from the temporary hospitals/clinics	
Segregation?	
Collection?	
Treatment?	Dumpsites___ Engineered dumpsites___ Incineration___

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## Annex I. Waste needs assessment - emergency phase, continued

### Industrial waste assessment

This form is to map the most immediate facts about the industries. Fill in for all facilities for which you can gather details.

The information will serve as indications for waste prioritization.

There might be fluids stored in tanks or oil drums. Such fluids should be considered hazardous until more is known.

Rubble from collapsed industries may be contaminated with hazardous material such as asbestos and chemicals.

	Yes	No	Indication	Part of disaster waste	List
<b>Name of the plant/equivalent</b>					
Used raw material					
Used energy sources					
Products					
Normal flow of waste					
Composition					
Known generation of hazardous waste					
<i>Source of disaster waste?</i>			m <sup>3</sup>		
<i>Disaster rubble</i>			m <sup>3</sup>		
<b>Name of the plant/equivalent</b>					
Used raw material					
Used energy sources					
Products					
Normal flow of waste					
Composition					
Known generation of hazardous waste					
<i>Source of disaster waste?</i>			m <sup>3</sup>		
<i>Disaster rubble</i>			m <sup>3</sup>		
<b>Name of the plant/equivalent</b>					
Used raw material					
Used energy sources					
Products					
Normal flow of waste					
Composition					
Known generation of hazardous waste					
<i>Source of disaster waste?</i>			m <sup>3</sup>		
<i>Disaster rubble</i>			m <sup>3</sup>		
<b>Name of the plant/equivalent</b>					
Used raw material					
Used energy sources					
Products					
Normal flow of waste					
Composition					
Known generation of hazardous waste					
<i>Source of disaster waste?</i>			m <sup>3</sup>		
<i>Disaster rubble</i>			m <sup>3</sup>		