

# Resilience Firm Survey



WORLD BANK GROUP



**GFDRR**  
Global Facility for Disaster Reduction and Recovery

QUESTIONNAIRE

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**Dar Es Salaam, Tanga and  
Dodoma, Tanzania**

## WB-Firm-TZ

N region Region:	select_one region <input type="radio"/> Dar Es Salaam 7 <input type="radio"/> Tanga 4 <input type="radio"/> Dodoma 1
N sdistrict District:	select_one sdistrict <input type="radio"/> District DistrictCode
N sword Ward:	select_one sword <input type="radio"/> Ward Ward
N firm Firm:	select_one firm <input type="radio"/> FirmCode FirmCode
N enum Enumerator's Name	select_one enum <input type="radio"/> Salum Mvungi Salum <input type="radio"/> Hamis Athmani Kambi Hamis <input type="radio"/> Ziada Nassoro Ziada <input type="radio"/> Rachel Steven Rachel <input type="radio"/> Amina Ashraf Amina <input type="radio"/> Emmanuel F. Maunganya Emmanuel <input type="radio"/> Husna Suleyman Husna <input type="radio"/> Andrea Ladislaus Andrea <input type="radio"/> Yustina Mlawi Yustina <input type="radio"/> Riziki Mbunda Riziki <input type="radio"/> Yasmin mohammed Yasmin <input type="radio"/> Benignus Kaijanante Benignus <input type="radio"/> Jilala Maeda Jilala <input type="radio"/> Jabir R. Makungu Jabir <input type="radio"/> Praise Peter Praise <input type="radio"/> Happiness Lemweli Happiness <input type="radio"/> Hadija Kasele Hadija <input type="radio"/> Amin Lazaro Amin <input type="radio"/> Joyce Taya Joyce <input type="radio"/> Juma R. Ally Juma
N gps GPS Coordinates	geopoint
N intro The objective of this survey is to understand (i) the costs borne by your firm due to disruptions in infrastructure services like water, electricity and transport and (ii) the ability of the firm to withstand these disruptions and ensure continuity of the supply	note

chain. The results of this survey will be used anonymously for research purposes only.	
N agree Do you agree to participate in our assessment?	select_one yes_no <input type="radio"/> Yes 1 <input type="radio"/> No 2
N notagree Why don't you agree to participate in the survey?	select_one notagree \${agree} = 2 R <input type="radio"/> Not interested in the survey 1 <input type="radio"/> The firm is closed/not existing anymore 2 <input type="radio"/> The responsible person is not available at the time of the visit 3 <input type="radio"/> Don't want to disclose such information 4 <input type="radio"/> Other 98
N notagree_other Please, specify	text \${notagree}=98 R
N district Select District:	select_one district <input type="radio"/> District DistrictCode
N ward Select Ward:	select_one ward <input type="radio"/> Ward WardCode
N q1_1 1.1 Name of main respondent	text
N q1_2 1.2 Role in firm	select_one q1_2 <input type="radio"/> Owner 1 <input type="radio"/> Accountant 2 <input type="radio"/> Manager 3 <input type="radio"/> Employee 4 <input type="radio"/> Other (specify) 98
N q1_2_other Please, specify	text \${q1_2} =98 R
N q1_2a 1.2a Years working for firm C . <= 70 M Year working for firm should be less than 71	integer \${q1_2} = 2 or \${q1_2} = 3 or \${q1_2} = 3 or \${q1_2} = 4 or \${q1_2} = 5 R
N q2_1	select_one yes_no

2.1 Are you still working in the sector: \${classdesc} (\${divisiondesc})	<input type="radio"/> Yes <sup>1</sup> <input type="radio"/> No <sup>2</sup>
N q2_1s 2.1s Which sector are you working?	select_one section <div style="text-align: right;">\${q2_1} = 2 R</div> <input type="radio"/> Agriculture, forestry and fishing <sup>A</sup> <input type="radio"/> Mining and quarrying <sup>B</sup> <input type="radio"/> Manufacturing <sup>C</sup> <input type="radio"/> Electricity, gas, steam and air conditioning supply <sup>D</sup> <input type="radio"/> Water supply; sewerage, waste management and remediation activities <sup>E</sup> <input type="radio"/> Construction <sup>F</sup> <input type="radio"/> Wholesale and retail trade; repair of motor vehicles and motorcycles <sup>G</sup> <input type="radio"/> Transportation and storage <sup>H</sup> <input type="radio"/> Accommodation and food service activities <sup>I</sup> <input type="radio"/> Information and communication <sup>J</sup> <input type="radio"/> Financial and insurance activities <sup>K</sup> <input type="radio"/> Real estate activities <sup>L</sup> <input type="radio"/> Professional, scientific and technical activities <sup>M</sup> <input type="radio"/> Administrative and support service activities <sup>N</sup> <input type="radio"/> Public administration and defence; compulsory social security <sup>O</sup> <input type="radio"/> Education <sup>P</sup> <input type="radio"/> Human health and social work activities <sup>Q</sup> <input type="radio"/> Arts, entertainment and recreation <sup>R</sup> <input type="radio"/> Other service activities <sup>S</sup> <input type="radio"/> Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use <sup>T</sup> <input type="radio"/> Activities of extraterritorial organizations and bodies <sup>U</sup>
N q2_1d 2.1d Select ISIC Division (Main one)	select_one division <div style="text-align: right;">\${q2_1} = 2 R</div> <input type="radio"/> DivisionDescription <sup>Division</sup>
N q2_1g 2.1g Select ISIC Group (Main one)	select_one group <div style="text-align: right;">\${q2_1} = 2 R</div> <input type="radio"/> GroupDescription <sup>Group</sup>
N q2_1c	select_one class <div style="text-align: right;">\${q2_1} = 2 R</div>

2.1c Select ISIC Activity (class) (Main one)	<input type="radio"/> ClassDescription <code>Class</code>
N q2_1a 2.1a Does your firm produce anything?	select_one yes_no <input type="radio"/> Yes <sup>1</sup> <input type="radio"/> No <sup>2</sup>
N q2_2 2.2 Year of establishment Year C (. <= 2018 and (. >= 1920)) M Date must be less than today and more than 1970	integer
N q2_q1_error Years working for firm should be less than age of firm	select_one yes_no \${q2_q1_check} < 0 R <input type="radio"/> Yes <sup>1</sup> <input type="radio"/> No <sup>2</sup> <div>False F</div>
N q2_4 2.4 Type of product/service	text
N q2_5a 2.5a Number of Male workers At the time of interview, do not count firm owner	integer
N q2_5b 2.5b Number of Female workers At the time of interview, do not count firm owner	integer
N q2_6 2.6 In \${region_name}, how many firms are selling goods/services similar to yours to similar clients?	select_one q2_6 <input type="radio"/> Many (more than 10) <sup>1</sup> <input type="radio"/> Few (less than 10) <sup>2</sup> <input type="radio"/> No other firms <sup>3</sup>
N q2_6_note Context: Flooding and other natural hazards are one of the problems faced by businesses in Tanzania.	note
N q2_7 2.7 How do you rate the risk of flooding and other natural shocks to the premises of your firm? (e.g. flooding on site)	select_one risk <input type="radio"/> very high risk <sup>1</sup> <input type="radio"/> high risk <sup>2</sup> <input type="radio"/> moderate risk <sup>3</sup> <input type="radio"/> low risk <sup>4</sup> <input type="radio"/> no risk <sup>5</sup>
N q2_8	select_one risk <input type="radio"/> very high risk <sup>1</sup> <input type="radio"/> high risk <sup>2</sup>

2.8 How do you rate the risk of indirect impacts of flooding and rain to your business? (e.g. through blocked roads or power outages)	<input type="radio"/> moderate risk 3 <input type="radio"/> low risk 4 <input type="radio"/> no risk 5
N m2_info  Infrastructure is often affected by disruptions in Tanzania. We are therefore interested in knowing what type of infrastructure and other inputs your firm need to maintain production or sales.	note
N q3_1 3.1 What are you depending on to maintain \${firm_activity}? <i>Select all that apply</i>	select_multiple q3_1 <input type="checkbox"/> Electricity 1 <input type="checkbox"/> Communication (Internet, tele-banking) 2 <input type="checkbox"/> Water 3 <input type="checkbox"/> Gas/fuel 4
N q3_2a 3.2a After how many hours are you forced to halt \${firm_activity} without Electricity? <i>Disregarding any back-up solution; 8888 = "immediately"; 5555 = "I am not forced to halt \${firm_activity}"</i> C . > 0	integer selected(\${q3_1}, '1') R
N q3_2b 3.2b After how many hours are you forced to halt \${firm_activity} without Communication (internet, tele-banking)? <i>Disregarding any back-up solution; 8888 = "immediately"; 5555 = "I am not forced to halt \${firm_activity}"</i> C . > 0	integer selected(\${q3_1}, '2') R
N q3_2c 3.2c After how many hours are you forced to halt \${firm_activity} without Water? <i>Disregarding any back-up solution; 8888 = "immediately"; 5555 = "I am not forced to halt \${firm_activity}"</i> C . > 0	integer selected(\${q3_1}, '3') R
N q3_2d 3.2d After how many hours are you forced to halt \${firm_activity} without Gas/fuel? <i>Disregarding any back-up solution; 8888 = "immediately"; 5555 = "I am not forced to halt \${firm_activity}"</i> C . > 0	integer selected(\${q3_1}, '4') R
N q3_2_1a 3.2.1a If Electricity services are shut down for one day, how much of your \${firm_activity} do you lose on that day?	select_one some string-length(\${q3_2a}) > 0 and \${q3_2a} != 8888 R

	<input type="radio"/> None (0%) 1 <input type="radio"/> Some (25%) 2 <input type="radio"/> Half (50%) 3 <input type="radio"/> Most (75%) 4 <input type="radio"/> All (100%) 5
N q3_2_1b 3.2.1b If water services are shut down <b>for one day</b> , how much of your <code>{firm_activity}</code> do you lose <b>on that day</b> ?	<pre>select_one some   string-length({q3_2c}) &gt; 0     and {q3_2c} != 8888 R</pre> <input type="radio"/> None (0%) 1 <input type="radio"/> Some (25%) 2 <input type="radio"/> Half (50%) 3 <input type="radio"/> Most (75%) 4 <input type="radio"/> All (100%) 5
N q3_2_1c 3.2.1c If Phone & Internet services are shut down <b>for one day</b> , how much of your <code>{firm_activity}</code> do you lose <b>on that day</b> ?	<pre>select_one some   string-length({q3_2b}) &gt; 0     and {q3_2b} != 8888 R</pre> <input type="radio"/> None (0%) 1 <input type="radio"/> Some (25%) 2 <input type="radio"/> Half (50%) 3 <input type="radio"/> Most (75%) 4 <input type="radio"/> All (100%) 5
N q3_2_1d 3.2.1d If electricity and water services are shut down <b>for one day</b> , how much of your <code>{firm_activity}</code> do you lose <b>on that day</b> ?	<pre>select_one some   string-length({q3_2_1a}) &gt;     0 and string- length({q3_2_1b}) &gt; 0 R</pre> <input type="radio"/> None (0%) 1 <input type="radio"/> Some (25%) 2 <input type="radio"/> Half (50%) 3 <input type="radio"/> Most (75%) 4 <input type="radio"/> All (100%) 5
N q3_2_1e 3.2.1e If Electricity, and phone & internet services are shut down <b>for one day</b> , how much of your <code>{firm_activity}</code> do you lose <b>on that day</b> ?	<pre>select_one some   string-length({q3_2_1a}) &gt;     0 and string- length({q3_2_1c}) &gt; 0 R</pre> <input type="radio"/> None (0%) 1 <input type="radio"/> Some (25%) 2 <input type="radio"/> Half (50%) 3 <input type="radio"/> Most (75%) 4 <input type="radio"/> All (100%) 5
N q3_2_1f 3.2.1f If Water, and phone & internet services are shut down <b>for one day</b> , how much of your <code>{firm_activity}</code> do you lose <b>on that day</b> ?	<pre>select_one some   string-length({q3_2_1b}) &gt;     0 and string- length({q3_2_1c}) &gt; 0 R</pre> <input type="radio"/> None (0%) 1 <input type="radio"/> Some (25%) 2 <input type="radio"/> Half (50%) 3

	<input type="radio"/> Most (75%) <sup>4</sup> <input type="radio"/> All (100%) <sup>5</sup>
N q3_2_1g 3.2.1g If Electricity, Water, phone & internet services are shut down <b>for one day</b> , how much of your $\{firm\_activity\}$ do you lose <b>on that day</b> ?	<pre>select_one some   string-length(<math>\{q3\_2\_1a\}</math>) &gt;     0 and string-       length(<math>\{q3\_2\_1b\}</math>) &gt; 0 and         string-length(<math>\{q3\_2\_1c\}</math>) &gt;           0 R</pre> <input type="radio"/> None (0%) <sup>1</sup> <input type="radio"/> Some (25%) <sup>2</sup> <input type="radio"/> Half (50%) <sup>3</sup> <input type="radio"/> Most (75%) <sup>4</sup> <input type="radio"/> All (100%) <sup>5</sup>
N gr3_3_info We are now going to ask some follow up questions about the Water that your firm need for production or sales.	note
N q3_3_1 3.3.1 What is your main source of water supply?	<pre>select_one q3_3_1</pre> <input type="radio"/> Central distribution <sup>1</sup> <input type="radio"/> Water vendor <sup>2</sup> <input type="radio"/> Local well <sup>3</sup> <input type="radio"/> Rain-fed water tank <sup>4</sup> <input type="radio"/> Other <sup>98</sup>
N q3_3_1_other Please, specify	<pre>text</pre> $\{q3\_3\_1\} = 98 R$
N q3_3_2 3.3.2 How much water do you use to maintain this firm? Type 9999 if unknown	integer
N q3_3_2unit 3.3.2 Unit	<pre>select_one q3_3_2</pre> <input type="radio"/> M3 <sup>1</sup> <input type="radio"/> Liters <sup>3</sup>
N q3_3_2tm 3.3.2 Time	<pre>select_one duration</pre> <input type="radio"/> day <sup>1</sup> <input type="radio"/> month <sup>2</sup> <input type="radio"/> year <sup>3</sup>
N q3_3_3 3.3.3 What is the cost of water from your main supply source? in TZS	integer
N q3_3_3tm 3.3.3 Time	<pre>select_one duration</pre> <input type="radio"/> day <sup>1</sup> <input type="radio"/> month <sup>2</sup> <input type="radio"/> year <sup>3</sup>

N q3_3_4 3.3.4 Do you have a water tank that enables you to continue \${firm_activity} during a disruption?	select_one yes_no \${q3_3_1} != 4 R  <input type="radio"/> Yes 1 <input type="radio"/> No 2
N q3_3_5a 3.3.5a On how many days per month do you experience water supply disruptions <b>during the rainy season?</b> (i.e. issues with water supply that affect \${firm_activity} ) <i>Type 0 if never; Type 0.5 if fewer than once a month</i> C . < 32	decimal
N q3_3_5b 3.3.5b On how many days per month do you experience water supply disruptions <b>outside the rainy season?</b> (i.e. issues with water supply that affect \${firm_activity} ) <i>Type 0 if never; Type 0.5 if fewer than once a month</i> C . < 32	decimal
N q3_3_6a 3.3.6a How long does a disruption usually last <b>during the rainy season?</b>	integer
N q3_3_6atm 3.3.6a Time	select_one quantity <input type="radio"/> Hours 1 <input type="radio"/> Days 2
N q3_3_6b 3.3.6b How long does a disruption usually last <b>outside the rainy season?</b>	integer
N q3_3_6btm 3.3.6b Time	select_one quantity <input type="radio"/> Hours 1 <input type="radio"/> Days 2
N q3_3_7a 3.3.7a What do you think is the Most important reason for water outages?	select_one reason <input type="radio"/> Storm 1 <input type="radio"/> Drought 2 <input type="radio"/> Flood 3 <input type="radio"/> Rain 4 <input type="radio"/> Mismanagement by water company 5 <input type="radio"/> Don't know 99 <input type="radio"/> Other 98
N q3_3_7a_other Please, specify	text \${q3_3_7a} = 98 R
N	select_one reason2

q3_3_7b 3.3.7b What do you think is the Second most important reason for water outages?	<input type="radio"/> Storm 1 <input type="radio"/> Drought 2 <input type="radio"/> Flood 3 <input type="radio"/> Rain 4 <input type="radio"/> Mismanagement by water company 5 <input type="radio"/> No other second most important reason 6 <input type="radio"/> Don't know 99 <input type="radio"/> Other 98 if({q3_3_7a}=98, name>0, name !={q3_3_7a}) F
N q3_3_7b_other Please, specify	text \${q3_3_7b} = 98 R
N gr3_4_info We are now going to ask some follow up questions about the Electricity that your firm need for production or sales.	note
N q3_4_1 3.4.1 What is the main source of electricity?	select_one q3_4_1 <input type="radio"/> Grid power (TANESCO) 1 <input type="radio"/> Generator 2 <input type="radio"/> Solar power 3 <input type="radio"/> Other 98
N q3_4_1_other Please, specify	text \${q3_4_1} = 98 R
N q3_4_2 3.4.2 How many KWH do you use to maintain this firm? Per day/month/year Type 9999 if unknown	integer
N q3_4_2tm 3.4.2 Time	select_one duration <input type="radio"/> day 1 <input type="radio"/> month 2 <input type="radio"/> year 3
N q3_4_3 3.4.3 What is the cost of electricity from your main supply source? In TZS Type 9999 if don't Know	integer
N q3_4_3unit 3.4.3 Unit	select_one electcost <input type="radio"/> Shillings/day 2 <input type="radio"/> Shillings/week 3 <input type="radio"/> Shillings/month 4
N q3_4_4	select_one yes_no \${q3_4_1} != 2 R

3.4.4. Do you have a power generator that enables you to continue $\$(firm\_activity)$ during an outage?	<input type="radio"/> Yes <sup>1</sup> <input type="radio"/> No <sup>2</sup>
N q3_4_5a 3.4.5a On how many days per month do you usually experience power outages <b>during the rainy season</b> ? <i>Type 0 if never; Type 0.5 if fewer than once a month</i> C .<32	decimal
N q3_4_5c 3.4.5c On how many days per month do you usually experience power outages <b>outside the rainy season</b> ? <i>Type 0 if never; Type 0.5 if fewer than once a month</i> C .<32	decimal
N q3_4_6a 3.4.6a How long does a power outages usually last <b>during the rainy season</b> ?	integer $\$(q3\_4\_5a) > 0$ R
N q3_4_6atm 3.4.6a Time	select_one quantity $\$(q3\_4\_5a) > 0$ R <input type="radio"/> Hours <sup>1</sup> <input type="radio"/> Days <sup>2</sup>
N q3_4_6b 3.4.6b How long does a power outages usually last <b>outside the rainy season</b> ?	integer $\$(q3\_4\_5c) > 0$ R
N q3_4_6btm 3.4.6b Time	select_one quantity $\$(q3\_4\_5c) > 0$ R <input type="radio"/> Hours <sup>1</sup> <input type="radio"/> Days <sup>2</sup>
N q3_4_7a 3.4.7a What do you think is the Most important reason for power outages?	select_one reason_e <input type="radio"/> Storm <sup>1</sup> <input type="radio"/> Drought <sup>2</sup> <input type="radio"/> Flood <sup>3</sup> <input type="radio"/> Rain <sup>4</sup> <input type="radio"/> Mismanagement by electricity company <sup>5</sup> <input type="radio"/> Don't know <sup>99</sup> <input type="radio"/> Other <sup>98</sup>
N q3_4_7a_other Please, specify	text $\$(q3\_4\_7a) = 98$ R
N q3_4_7b	select_one reason2e $\$(q3\_4\_7a) \neq 99$ R

3.4.7b What do you think is the Second most important reason for power outages?	<input type="radio"/> Storm 1 <input type="radio"/> Drought 2 <input type="radio"/> Flood 3 <input type="radio"/> Rain 4 <input type="radio"/> Mismanagement by electricity company 5 <input type="radio"/> No other second most important reason 6 <input type="radio"/> Don't know 99 <input type="radio"/> Other 98 <pre>if({q3_4_7a}=98, name&gt;0, name !={q3_4_7a}) F</pre>
N q3_4_7b_other Please, specify	text <pre>{q3_4_7b} = 98 R</pre>
N q4_note Please list the suppliers of the inputs needed to maintain your business starting with the most important one. <i>(excluding electricity and water)</i>	note
N total_suppliers How many suppliers do you have <i>(excluding basic services such as electricity, water, etc.)</i>	<pre>select_one total_suppliers</pre> <input type="radio"/> 0 0 <input type="radio"/> 1 1 <input type="radio"/> 2 2 <input type="radio"/> 3 3 <input type="radio"/> 4 4 <input type="radio"/> 5+ 5
N q4_1 4.1 Supplier # \${sid}	text
N q4_2 4.2 In which sector does this supplier work? <i>ISIC classification. Select the main sector.</i>	<pre>select_one section</pre> <input type="radio"/> Agriculture, forestry and fishing A <input type="radio"/> Mining and quarrying B <input type="radio"/> Manufacturing C <input type="radio"/> Electricity, gas, steam and air conditioning supply D <input type="radio"/> Water supply; sewerage, waste management and remediation activities E <input type="radio"/> Construction F <input type="radio"/> Wholesale and retail trade; repair of motor vehicles and motorcycles G <input type="radio"/> Transportation and storage H <input type="radio"/> Accommodation and food service activities I <input type="radio"/> Information and communication J <input type="radio"/> Financial and insurance activities K <input type="radio"/> Real estate activities L

	<input type="radio"/> Professional, scientific and technical activities <sup>M</sup> <input type="radio"/> Administrative and support service activities <sup>N</sup> <input type="radio"/> Public administration and defence; compulsory social security <sup>O</sup> <input type="radio"/> Education <sup>P</sup> <input type="radio"/> Human health and social work activities <sup>Q</sup> <input type="radio"/> Arts, entertainment and recreation <sup>R</sup> <input type="radio"/> Other service activities <sup>S</sup> <input type="radio"/> Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use <sup>T</sup> <input type="radio"/> Activities of extraterritorial organizations and bodies <sup>U</sup>
N q4_3 4.3 Type of Input <i>(name, such as "paper", "wood", "groceries")</i>	text
N q4_4 4.4 How many other suppliers like this one do you use?	integer
N q4_5 4.5 How are the inputs transported to your site? <i>If mixed modes, specify upto 3:</i> C count-selected(.) <=3	select_multiple transport <input type="checkbox"/> Road <sup>1</sup> <input type="checkbox"/> Rail <sup>2</sup> <input type="checkbox"/> Air <sup>3</sup> <input type="checkbox"/> Sea <sup>4</sup> <input type="checkbox"/> Lake <sup>5</sup> <input type="checkbox"/> Not applicable <sup>6</sup> <input type="checkbox"/> No other alternative <sup>99</sup> parent = 2 F
N q4_6 4.6 Location of Supplier:	select_one location <input type="radio"/> In Dar <sup>1</sup> <input type="radio"/> In Tanga <sup>2</sup> <input type="radio"/> In Dodoma <sup>3</sup> <input type="radio"/> Not in Dar, but in Tanzania <sup>4</sup> <input type="radio"/> Not in Tanga, but in Tanzania <sup>5</sup> <input type="radio"/> Not in Dodoma, but in Tanzania <sup>6</sup> <input type="radio"/> Abroad <sup>7</sup> parent = \${region} or name = 7 F
N q4_6a 4.6a How far from production site/service is the supplier located?	integer \${q4_6} >= 1 and \${q4_6} <= 3 R

Distance in km type 0 if less than 1 km	
<p>N</p> <p>q4_6c</p> <p>4.6c In which region of Tanzania is the supplier located?</p>	<pre>select_one province   \${q4_6} &gt;= 4 and \${q4_6} &lt;= 6 R</pre> <p> <input type="radio"/> Dodoma 1  <input type="radio"/> Arusha 2  <input type="radio"/> Kilimanjaro 3  <input type="radio"/> Tanga 4  <input type="radio"/> Morogoro 5  <input type="radio"/> Pwani 6  <input type="radio"/> Dar-es-salaam 7  <input type="radio"/> Lindi 8  <input type="radio"/> Mtwara 9  <input type="radio"/> Ruvuma 10  <input type="radio"/> Iringa 11  <input type="radio"/> Mbeya 12  <input type="radio"/> Singida 13  <input type="radio"/> Tabora 14  <input type="radio"/> Rukwa 15  <input type="radio"/> Kigoma 16  <input type="radio"/> Shinyanga 17  <input type="radio"/> Kagera 18  <input type="radio"/> Mwanza 19  <input type="radio"/> Mara 20  <input type="radio"/> Manyara 21  <input type="radio"/> Njombe 22  <input type="radio"/> Katavi 23  <input type="radio"/> Simiyu 24  <input type="radio"/> Geita 25  <input type="radio"/> Zanzibar North 51  <input type="radio"/> Zanzibar South 52  <input type="radio"/> Songwe 53  <input type="radio"/> Pemba North 54  <input type="radio"/> Pemba South 55 </p> <pre>name != \${region} F</pre>
<p>N</p> <p>country</p> <p>4.6d In which country is the supplier located?</p>	<pre>select_one country   \${q4_6} = 7 R</pre> <p><input type="radio"/> countryname countrycode</p>
<p>N</p> <p>q4_6e</p> <p>4.6e How are the supplies transported into/within Tanzania?</p>	<pre>select_one q4_6e   \${q4_6} = 7 R</pre> <p> <input type="radio"/> Via port of Dar 1  <input type="radio"/> Via other sea port 2  <input type="radio"/> Via lake 3  <input type="radio"/> By road 4  <input type="radio"/> By rail 5  <input type="radio"/> By plane 6  <input type="radio"/> Other 98 </p>

N q4_7 4.7 How frequently do you receive inputs from this supplier? <i>(In case one supplier is providing many different inputs, report the most frequent supply/input from this supplier)</i>	integer
N q4_7unit 4.7 Per...?	select_one q4_7 <input type="radio"/> ...week 1 <input type="radio"/> ...month 2 <input type="radio"/> ...year 3
N q4_8 4.8 What is the value of a delivery/service on average? <i>In TZS (In case one supplier is providing many different inputs, report the most frequent supply/input from this supplier)</i> C . >0	integer
N q4_9 4.9 For how many days can you maintain current <b>\${firm_activity}</b> just using your stock of supply? (inventory) <i>In days Type 8888 if "I do not maintain/need an inventory for business"</i>	integer
N q4_10 4.10 Do you have a long-term supply contract with the supplier of this input or do you buy order by order?	select_one q4_10 <input type="radio"/> Long-term supply contract 1 <input type="radio"/> Order by order 2
N q4_11 4.11 What share of your supplies comes from abroad?	select_one share \${total_suppliers} != 0 R <input type="radio"/> 0% (None) 1 <input type="radio"/> 1 – 24% (A little) 2 <input type="radio"/> 25-49% (Some) 3 <input type="radio"/> 50-74% (A lot) 4 <input type="radio"/> 75-99% (Almost all) 5 <input type="radio"/> 100% (All) 6 if(\${any_abroad} > 0, if(\${any_local} > 0, parent = 2, parent >= 2), parent <= 2) F
N q4_12 4.12 What was the longest delivery delay by a supplier in the past 12 months? <i>(difference between agreed and actual delivery date)</i>	integer
N q4_12time 4.12 Time	select_one quantity <input type="radio"/> Hours 1 <input type="radio"/> Days 2
N q4_13a	select_one q4_13

4.13a What is the Most important reason for delivery delays by your suppliers?	<input type="radio"/> Delayed delivery by their own suppliers 1 <input type="radio"/> Reliability of transportation (e.g. blocked roads, disrupted public transport) 2 <input type="radio"/> Power outages 3 <input type="radio"/> Water outages 4 <input type="radio"/> Problems in supplier's company (e.g machine malfunctioning) 5 <input type="radio"/> Labor strike 6 <input type="radio"/> Other 98 <input type="radio"/> I don't know 99 <input type="radio"/> No other important reason 8 parent = 1 F
N q4_13a_other Please, specify	text \${q4_13a} = 98 R
N q4_13b 4.13b What is the Second most important reason for delivery delays by your suppliers?	select_one q4_13 \${q4_13a} != 99 R <input type="radio"/> Delayed delivery by their own suppliers 1 <input type="radio"/> Reliability of transportation (e.g. blocked roads, disrupted public transport) 2 <input type="radio"/> Power outages 3 <input type="radio"/> Water outages 4 <input type="radio"/> Problems in supplier's company (e.g machine malfunctioning) 5 <input type="radio"/> Labor strike 6 <input type="radio"/> Other 98 <input type="radio"/> I don't know 99 <input type="radio"/> No other important reason 8 if (\${q4_13a}=98, name>0, name != \${q4_13a}) F
N q4_13b_other Please, specify	text \${q4_13b} = 98 R
N q5_1a 5.1a How many of your workers are permanently employed last month? <i>i.e. long-term work arrangements; contracts &gt; 1 year Note: Total staff \${staff}</i> C . >= 0	integer
N q5_1b 5.1b How many of your workers are seasonally employed last month?	integer

<i>i.e. short and medium work arrangements, contract duration</i> C .>=0	
N q5_1c 5.1c How many of your workers are daily employed last month? <i>i.e. day-to-day working arrangements Note: Total staff \${staff}</i> C .>=0	integer
N q5_1d 5.1d How many of your workers are unpaid family workers last month? C .>=0	integer
N q5_1error Number of wokers by type of contract (\${q5_1calc}) cannot be more than your total staff (\${staff}). Please, go back and correct the answer.	select_one yes_no \${q5_1calc}> \${staff} R <input type="radio"/> Yes 1 <input type="radio"/> No 2 False F
N q5_2a 5.2a What is the most common mode of transport chosen by your workers to come to work?	select_one q5_2 \${staff} > 0 R <input type="radio"/> Bus 1 <input type="radio"/> Train 2 <input type="radio"/> Walk 3 <input type="radio"/> Bike 4 <input type="radio"/> Motorbike 5 <input type="radio"/> Car 6 <input type="radio"/> Other 98
N q5_2a_other Please, specify	text \${q5_2a} = 98 R
N q5_2b 5.2b What is the most common mode of transport chosen by you to come to work?	select_one q5_2 \${staff} = 0 R <input type="radio"/> Bus 1 <input type="radio"/> Train 2 <input type="radio"/> Walk 3 <input type="radio"/> Bike 4 <input type="radio"/> Motorbike 5 <input type="radio"/> Car 6 <input type="radio"/> Other 98
N q5_2b_other Please, specify	text \${q5_2b} = 98 R
N q5_3a	integer

5.3a In a typical month, <b>during the rainy season</b> , how many workers (including the firm's owner) are completely unable to come to work due to transport disruption? <i>(e.g. blocked roads due to flooding)</i>	
N q5_3b 5.3b In a typical month, <b>outside the rainy season</b> , how many workers (including the firm's owner) are completely unable to come to work due to transport disruption? <i>(e.g. blocked roads due to flooding)</i>	integer
N q5_4a 5.4a In a typical month, <b>during the rainy season</b> , how many workers (including the firm's owner) arrive late to work due to transport disruption? <i>(e.g. blocked roads due to flooding)</i> C . < 31	decimal
N q5_4b 5.4b In a typical month, <b>outside the rainy season</b> , how many workers (including the firm's owner) arrive late to work due to transport disruption? <i>(e.g. blocked roads due to flooding)</i> C . < 31	decimal
N q5_5 5.5 When transport disruptions occur, by how many hours are workers usually late for work? <i>Hours</i> C . < 24	integer \${q5_4a}>0 or \${q5_4b}>0 R
N total_clients How many different clients do you have ? <i>If clients are publics only, record only 1 for all of them</i>	select_one total_suppliers ○ 0 0 ○ 1 1 ○ 2 2 ○ 3 3 ○ 4 4 ○ 5+ 5 name > 0 F
N clients_quest Clients: List your (\${total_clients}) clients (in terms of value) – in the last month	note
N q6_1 6.1 Client # \${cid} <i>(name, or "general public") emphasize: this will not be published</i>	text

N q6_2 6.2 What type of client is this?	select_one q6_3 <input type="radio"/> Corporate client/Goverment Organization 1 <input type="radio"/> Public 2
N q6_2a 6.2a Select sector of activity	select_one section $\${q6\_2} = 1$ R <input type="radio"/> Agriculture, forestry and fishing A <input type="radio"/> Mining and quarrying B <input type="radio"/> Manufacturing C <input type="radio"/> Electricity, gas, steam and air conditioning supply D <input type="radio"/> Water supply; sewerage, waste management and remediation activities E <input type="radio"/> Construction F <input type="radio"/> Wholesale and retail trade; repair of motor vehicles and motorcycles G <input type="radio"/> Transportation and storage H <input type="radio"/> Accommodation and food service activities I <input type="radio"/> Information and communication J <input type="radio"/> Financial and insurance activities K <input type="radio"/> Real estate activities L <input type="radio"/> Professional, scientific and technical activities M <input type="radio"/> Administrative and support service activities N <input type="radio"/> Public administration and defence; compulsory social security O <input type="radio"/> Education P <input type="radio"/> Human health and social work activities Q <input type="radio"/> Arts, entertainment and recreation R <input type="radio"/> Other service activities S <input type="radio"/> Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use T <input type="radio"/> Activities of extraterritorial organizations and bodies U
N q6_3 6.3 Does this client supply to other firms?	select_one yes_no_dont $\${q6\_2} = 1$ R <input type="radio"/> Yes 1 <input type="radio"/> No 2 <input type="radio"/> I don't know 99
N q6_4	integer

<p>6.4 Value of monthly sales to this client</p> <p><i>In TZS Type 9999 if don't know If client is Public: count the total sales to all the clients per month</i></p> <p>C</p> <p>. &gt; 0</p>	
<p>N</p> <p>q6_5</p> <p>6.5 How frequently do you sell them goods or services?</p>	<p>select_one q6_5</p> <p><input type="radio"/> At least once a day 1</p> <p><input type="radio"/> At least once a week 2</p> <p><input type="radio"/> At least once a month 3</p> <p><input type="radio"/> At least once a quarter 4</p> <p><input type="radio"/> 1-3 times a year 5</p>
<p>N</p> <p>q6_6</p> <p>6.6 For goods: How are your goods transported from your site to the client - \${q6_1}?</p> <p><i>If mixed modes, specify upto 3: Not applicable = "Do not deliver to anyone"</i></p> <p>C</p> <p>count-selected(.) &lt;=3 and (not(selected(., '6') and count-selected(.) &gt;=2))</p>	<p>select_multiple transport</p> <p><input type="checkbox"/> Road 1</p> <p><input type="checkbox"/> Rail 2</p> <p><input type="checkbox"/> Air 3</p> <p><input type="checkbox"/> Sea 4</p> <p><input type="checkbox"/> Lake 5</p> <p><input type="checkbox"/> Not applicable 6</p> <p><input type="checkbox"/> No other alternative 99</p> <p>parent &lt;= 2 F</p>
<p>N</p> <p>q6_7</p> <p>6.7 How far from your firm is this client located?</p> <p><i>(distance in km) Type 5555 if exported, 9999 if Don't know, 7777 if Don't want to answer</i></p>	<p>integer</p>
<p>N</p> <p>q6_8_1</p> <p>6.8.1 What share of your clients are located abroad?</p>	<p>select_one share</p> <p><input type="radio"/> 0% (None) 1</p> <p><input type="radio"/> 1 – 24% (A little) 2</p> <p><input type="radio"/> 25-49% (Some) 3</p> <p><input type="radio"/> 50-74% (A lot) 4</p> <p><input type="radio"/> 75-99% (Almost all) 5</p> <p><input type="radio"/> 100% (All) 6</p>
<p>N</p> <p>q6_8_2</p> <p>6.8.2 What was the longest delivery delay to a client in the past 12 months?</p> <p><i>(difference between agreed and actual delivery date)</i></p>	<p>integer</p>
<p>N</p> <p>q6_8_2tm</p> <p>6.8.2 Time</p>	<p>select_one quantity</p> <p><input type="radio"/> Hours 1</p> <p><input type="radio"/> Days 2</p>
<p>N</p> <p>q6_8_3a</p> <p>6.8.3a What is the MOST important reason for your delays in delivering to your clients?</p>	<p>select_one q6_10</p> <p><input type="radio"/> Delayed delivery of your supplies, due to issues with your suppliers' business or production; 1</p> <p><input type="radio"/> Reliability of transportation (e.g. blocked roads, disrupted public transport) 2</p>

	<input type="radio"/> Power outages 3 <input type="radio"/> Water outages 4 <input type="radio"/> Problems in your company (e.g machine malfunctioning) 5 <input type="radio"/> Labor strike 6 <input type="radio"/> I have never experienced any delay in delivering to clients at all 7 <input type="radio"/> Other 98 <input type="radio"/> No other second most important reason 8 parent = 1 F
N q6_8_3a_other Please, specify	text \${q6_8_3a} = 98 R
N q6_8_3b 6.8.3b What is the SECOND most important reason for your delays in delivering to your clients?	select_one q6_10 <input type="radio"/> Delayed delivery of your supplies, due to issues with your suppliers' business or production; 1 <input type="radio"/> Reliability of transportation (e.g. blocked roads, disrupted public transport) 2 <input type="radio"/> Power outages 3 <input type="radio"/> Water outages 4 <input type="radio"/> Problems in your company (e.g machine malfunctioning) 5 <input type="radio"/> Labor strike 6 <input type="radio"/> I have never experienced any delay in delivering to clients at all 7 <input type="radio"/> Other 98 <input type="radio"/> No other second most important reason 8 if(\${q6_8_3a}=98, name>0, name != \${q6_8_3a}) F
N q6_8_3b_other Please, specify	text \${q6_8_3b} = 98 R
N q6_8_4 6.8.4 For how many days can you maintain current sales just using the stock of your produced goods? (inventories) Type 0 if "no stock/sales will decrease or stop immediately" Type 8888 if "I do not maintain/need an inventory for business"	integer
N q7_1 7.1 What do you do in the case of a transport disruption?	select_one q7_1 <input type="radio"/> shift to other transport modes 1 <input type="radio"/> don't shift, accept delay, and wait until disruption is over 2
N q7_2a	select_one transport \${q7_1} = 1 R

7.2a Which alternative transport mode (MOST IMPORTANT) would you switch to?	<input type="radio"/> Road 1 <input type="radio"/> Rail 2 <input type="radio"/> Air 3 <input type="radio"/> Sea 4 <input type="radio"/> Lake 5 <input type="radio"/> Not applicable 6 <input type="radio"/> No other alternative 99 parent = 2 F
N q7_2b 7.2b Which alternative transport mode (SECOND most IMPORTANT) would you switch to?	select_one transport \${q7_1} = 1 and \${q7_2a} <= 5 R <input type="radio"/> Road 1 <input type="radio"/> Rail 2 <input type="radio"/> Air 3 <input type="radio"/> Sea 4 <input type="radio"/> Lake 5 <input type="radio"/> Not applicable 6 <input type="radio"/> No other alternative 99 name != \${q7_2a} and parent >= 2 F
N q7_2c 7.2c Which alternative transport mode (THIRD most IMPORTANT) would you switch to?	select_one transport \${q7_1} = 1 and \${q7_2b} <= 5 R <input type="radio"/> Road 1 <input type="radio"/> Rail 2 <input type="radio"/> Air 3 <input type="radio"/> Sea 4 <input type="radio"/> Lake 5 <input type="radio"/> Not applicable 6 <input type="radio"/> No other alternative 99 name != \${q7_2b} and name != \${q7_2a} and parent >= 2 F
N q7_3 7.3 How much of your goods can you shift to a different transport mode? <i>[ex. From sea to air, from road to rail, etc.]</i>	select_one some \${q7_1} = 1 R <input type="radio"/> None (0%) 1 <input type="radio"/> Some (25%) 2 <input type="radio"/> Half (50%) 3 <input type="radio"/> Most (75%) 4 <input type="radio"/> All (100%) 5 if(\${q7_1} = 1, parent =1, parent > 0) F
N q7_6_4 7.6.4 What's the primary cost associated with this shift?	select_one q7_6_4 \${q7_1} = 1 R <input type="radio"/> Monetary 1 <input type="radio"/> Time 2

	<input type="radio"/> No cost 3 <input type="radio"/> Other 98
N q7_6_4_other Please, specify	text \${q7_6_4} = 98 R
N q7_6_5 7.6.5 How much more expensive is this transport mode compared to your usual mode? <i>In TZS</i>	select_one q7_6_5 \${q7_1} = 1 R <input type="radio"/> Much cheaper 1 <input type="radio"/> Slightly cheaper 2 <input type="radio"/> Not more, not less expensive 3 <input type="radio"/> Slightly more expensive 4 <input type="radio"/> Very much more expensive 5
N q7_6_6 7.6.6 Please state the reason why you would not shift to a different transport mode. <i>Please state the reason why you would not shift to a different transport mode.</i>	select_one q7_6_6 \${q7_1} = 2 R <input type="radio"/> lack of suitable alternative transport means 1 <input type="radio"/> disruption are usually not long enough to consider shifting 2 <input type="radio"/> Other 98
N q7_6_6_other Please, specify	text \${q7_6_6} = 98 R
N q8 8 Tell me about the most serious natural shock that affected your firm <i>Hint: affected even at least indirectly, such as workers coming late, transport disruption, utilities disruptions (i.e. water, electricity, gas), supply delays, etc. due to natural shock</i>	note
N q8_1_1 8.1.1 Date of event, when did it happen? C (. < today()) and (. > (today() - 18000)) or . = 18170	date Month: Year:
N q8_q1_error Date of event should be less than age of firm. - Year happend: \${eventyear} - Firm established: \${q2_2}	select_one yes_no \${eventyear} < \${q2_2} R <input type="radio"/> Yes 1 <input type="radio"/> No 2 False F
N q8_1_2 8.1.2 Type of shock	select_one q8_1_2 <input type="radio"/> Flood 1 <input type="radio"/> Storm 2 <input type="radio"/> Landslide 3 <input type="radio"/> Earthquake 4

N q8_2_3b 8.2.3b How many days did you have to spend on repairs & replacements? <i>Type 0.5 if less than a day</i>	decimal
N q8_2_4a 8.2.4a How many % of your input stock did you lose? <i>Type 0 if no stock lost or if company work in services such as consulting, insurance, etc. and does not maintain any stock.</i> C . <=100	integer $\${q8\_2\_1} = 1$ R
N q8_2_4a1 8.2.4a1 Was it perishable or non-perishable?	select_one yes_no_both $\${q8\_2\_4a} > 0$ R <input type="radio"/> Yes 1 <input type="radio"/> No 2 <input type="radio"/> Both 3
N q8_2_4b 8.2.4b How many % of your produced output stock did you lose? <i>Type 0 if no stock lost or if company work in services such as consulting, insurance, etc. and does not maintain any stock.</i>	integer $\${q8\_2\_1} = 1$ R
N q8_2_4b1 8.2.4b1 Was it perishable or non-perishable?	select_one yes_no_both $\${q8\_2\_4b} > 0$ R <input type="radio"/> Yes 1 <input type="radio"/> No 2 <input type="radio"/> Both 3
N q8_2_5a 8.2.5a What share of your total repair costs and inventory losses was covered by insurance? <i>In % Type 0 if nothing was covered, Type 100 if all was covered</i> C . <=100	integer
N q8_2_5b 8.2.5b What share of your total repair costs and inventory losses was covered by government support? <i>In % Type 0 if nothing was covered, Type 100 if all was covered</i> C . <=100	integer
N gr8_2_5_err Total of Questions 8.2.5a and 8.2.5b can not be more than 100%. Please, go back and correct your answer. You answered: $\${q8\_2\_5a}$ - insurance + $\${q8\_2\_5b}$ - government support = $\${gr8\_2\_5\_calc}$	select_one yes_no $\${gr8\_2\_5\_calc} > 100$ R <input type="radio"/> Yes 1 <input type="radio"/> No 2 False F
N	select_one q8_3

q8_3_2 8.3.2 Following the disaster, what were your MOST important sources of support:	<input type="radio"/> None 1 <input type="radio"/> Clients 2 <input type="radio"/> Suppliers 3 <input type="radio"/> Community 4 <input type="radio"/> Local government 5 <input type="radio"/> National government 6 <input type="radio"/> Other 98
N q8_3_2_other Please, specify	text \${q8_3_2} = 98 R
N q8_3_3 8.3.3 Following the disaster, what were your SECOND most important sources of support:	select_one q8_3_3 \${q8_3_2} >1 R <input type="radio"/> None 1 <input type="radio"/> Clients 2 <input type="radio"/> Suppliers 3 <input type="radio"/> Community 4 <input type="radio"/> Local government 5 <input type="radio"/> National government 6 <input type="radio"/> Other 98 <input type="radio"/> No second most important source of support 7 if(\${q8_3_2}=98, name>0, name !=\${q8_3_2}) F
N q8_3_3_other Please, specify	text \${q8_3_3} = 98 R
N q8_3_4a 8.3.4a By how much did you have to reduce sales in the first week following the disaster? In % (0 if not reduced) C . <=100	select_one demandaffect <input type="radio"/> Sales stopped completely 1 <input type="radio"/> Sales stopped almost completely 2 <input type="radio"/> Sales was reduced by half 3 <input type="radio"/> Sales was somewhat reduced 4 <input type="radio"/> Sales was unchanged 5 <input type="radio"/> Sales increased 6
N q8_3_4b 8.3.4b By how much did you have to reduce sales after one month following the disaster? In % (0 if not reduced) C . <=100	select_one demandaffect <input type="radio"/> Sales stopped completely 1 <input type="radio"/> Sales stopped almost completely 2 <input type="radio"/> Sales was reduced by half 3 <input type="radio"/> Sales was somewhat reduced 4 <input type="radio"/> Sales was unchanged 5 <input type="radio"/> Sales increased 6
N gr8_3_4_err Total of Questions 8.3.4a and 8.3.4b can not be more than 100%. Please, go back and correct your answer. You answered: \${q8_3_4a} (insurance) + \${q8_3_4b} (government support) = \${gr8_3_4_calc}	select_one yes_no \${gr8_3_4_calc} >100 R <input type="radio"/> Yes 1 <input type="radio"/> No 2 False F
N	select_one q8_3_5

q8_3_5a 8.3.5a What is the PRIMARY reason for these sales reduction?	<input type="radio"/> Your clients had to stop production/buying due to damages 1 <input type="radio"/> Problems with transportation 2 <input type="radio"/> Clients had financial losses and were unable to pay for your products 3 <input type="radio"/> Other reasons 98 <input type="radio"/> I don't know 5 <input type="radio"/> None 6 <input type="radio"/> No other second most important reason 7 name != 7 F
N q8_3_5a_other Please, specify	text \${q8_3_5a} = 98 R
N q8_3_5b 8.3.5b What is the SECOND most important reason for these sales reduction?	select_one q8_3_5 \${q8_3_5a} <= 3 or \${q8_3_5a} = 98 R <input type="radio"/> Your clients had to stop production/buying due to damages 1 <input type="radio"/> Problems with transportation 2 <input type="radio"/> Clients had financial losses and were unable to pay for your products 3 <input type="radio"/> Other reasons 98 <input type="radio"/> I don't know 5 <input type="radio"/> None 6 <input type="radio"/> No other second most important reason 7 if(\${q8_3_5a}=98, name>0, name !=\${q8_3_5a}) F
N q8_3_5b_other Please, specify	text \${q8_3_5b} = 98 R
N q8_3_6 8.3.6 After how many days did you return to your sales before disaster? <i>In Days Type 0 if "immediate"; 9999 if unknown; 7777 if "not yet returned to full production"</i>	integer
N q8_4_1 8.4.1 For how long were your suppliers unable to supply? <i>Type 0 if "suppliers were not unable to supply", 9999 if unknown</i>	integer
N q8_4_1tm 8.4.1 Time	select_one q8_4_1tm <input type="radio"/> Hours 1 <input type="radio"/> Days 2 <input type="radio"/> I don't have suppliers 3

<p>N</p> <p>q8_4_2a</p> <p>8.4.2a What is the PRIMARY reason for these supply disruptions?</p>	<p>select_one q8_4_2</p> <p><input type="radio"/> Supplier's production was disrupted due to destroyed or damaged production facilities 1</p> <p><input type="radio"/> Supplier's production was disrupted due to absence of workers 2</p> <p><input type="radio"/> Problems with transportation 3</p> <p><input type="radio"/> Other reasons 98</p> <p><input type="radio"/> No other reason 4</p> <p><input type="radio"/> I don't know 5</p> <p><input type="radio"/> None 99</p> <p>parent = 1 F</p>
<p>N</p> <p>q8_4_2a_other</p> <p>Please, specify</p>	<p>text</p> <p>{q8_4_2a} = 98 R</p>
<p>N</p> <p>q8_4_2b</p> <p>8.4.2b What is the SECOND most important reason for these supply disruptions?</p>	<p>select_one q8_4_2</p> <p>{q8_4_2a} != 99 R</p> <p><input type="radio"/> Supplier's production was disrupted due to destroyed or damaged production facilities 1</p> <p><input type="radio"/> Supplier's production was disrupted due to absence of workers 2</p> <p><input type="radio"/> Problems with transportation 3</p> <p><input type="radio"/> Other reasons 98</p> <p><input type="radio"/> No other reason 4</p> <p><input type="radio"/> I don't know 5</p> <p><input type="radio"/> None 99</p> <p>if({q8_4_2a}=98, name&gt;0, name !={q8_4_2a}) F</p>
<p>N</p> <p>q8_4_2b_other</p> <p>Please, specify</p>	<p>text</p> <p>{q8_4_2b} = 98 R</p>
<p>N</p> <p>q8_4_3</p> <p>8.4.3 Did you switch to different suppliers for your important inputs, because your original suppliers were unable to supply?</p>	<p>select_one yes_no</p> <p>{q8_4_1} &gt; 0 and {q8_4_1} !=3 R</p> <p><input type="radio"/> Yes 1</p> <p><input type="radio"/> No 2</p>
<p>N</p> <p>q8_4_4</p> <p>8.4.4 Did you switch back to your original supplier after the problems were resolved?</p>	<p>select_one q8_4_4</p> <p>{q8_4_3} =1 R</p> <p><input type="radio"/> Yes 1</p> <p><input type="radio"/> No, but I intend to switch back eventually 2</p> <p><input type="radio"/> No, and I do not intend to switch back 3</p>
<p>N</p>	<p>note</p>

trans_note Were transport infrastructure or vehicles that you depend upon for your business affected? (e.g. blocked roads due to floods)	
N q8_6_1a 8.6.1a Most important infrastructure or vehicles that you depend upon for your business that was affected? (e.g. blocked roads due to floods)	select_one q8_6_1 <input type="radio"/> Road 1 <input type="radio"/> Rail 2 <input type="radio"/> Vehicles 3 <input type="radio"/> Port 4 <input type="radio"/> Airport 5 <input type="radio"/> Other 98 <input type="radio"/> None 6
N q8_6_1a_other Please, specify	text \${q8_6_1a} = 98 R
N q8_6_2a 8.6.2a After how long was the infrastructure or vehicles that you depend upon for your business usable again? Type 7777 if "Not yet" Type 9999 if "Don't know"	integer
N q8_6_2atm 8.6.2a Time	select_one quantity <input type="radio"/> Hours 1 <input type="radio"/> Days 2
N q8_6_1b 8.6.1b Second most important infrastructure or vehicles that you depend upon for your business that was affected? (e.g. blocked roads due to floods)	select_one q8_6_1 (\${q8_6_1a} <= 5 or \${q8_6_1a} = 98) R <input type="radio"/> Road 1 <input type="radio"/> Rail 2 <input type="radio"/> Vehicles 3 <input type="radio"/> Port 4 <input type="radio"/> Airport 5 <input type="radio"/> Other 98 <input type="radio"/> None 6 if(\${q8_6_1a}=98, name>0, name !=\${q8_6_1a}) F
N q8_6_1b_other Please, specify	text \${q8_6_1b} = 98 R
N q8_6_2b 8.6.2b After how long was the infrastructure or vehicles that you depend upon for your business usable again? Type 7777 if "Not yet" Type 9999 if "Don't know"	integer
N q8_6_2btm 8.6.2b Time	select_one quantity <input type="radio"/> Hours 1 <input type="radio"/> Days 2

N q8_7_1 8.7.1 Did you experience a water supply disruption during the disaster?	select_one yes_no <input type="radio"/> Yes 1 <input type="radio"/> No 2
N q8_7_2 8.7.2 After how long did supply return to normal? <i>Type 7777 if “has not yet returned to normal” Type 9999 if “Don’t know/don’t remember”</i>	integer
N q8_7_2tm 8.7.2 Time	select_one quantity <input type="radio"/> Hours 1 <input type="radio"/> Days 2
N q8_7_2a 8.7.2a Which alternative water source did you use as a substitute?	select_one q8_7_2a \$ {q8_7_1} = 1 R <input type="radio"/> No alternative 1 <input type="radio"/> Bottled 2 <input type="radio"/> Piped 3 <input type="radio"/> Rainwater 4 <input type="radio"/> Purified wastewater 5 <input type="radio"/> Tank 6 <input type="radio"/> Well 7 <input type="radio"/> Other 98
N q8_7_2a_other Please, specify	text \$ {q8_7_2a} = 98 R
N q8_7_3 8.7.3 What was the cost of water from the alternative supply source?	integer
N q8_7_3unit 8.7.3 Unit	select_one q8_7_3 <input type="radio"/> Shilling/M3 1 <input type="radio"/> Shilling/Liters 3 <input type="radio"/> Shilling/Day 4
N q8_7_4 8.7.4 After you switched to the new supply source, did your water consumption increase or decrease?	select_one change \$ {q8_7_1} =1 and \$ {q8_7_2a} > 1 R <input type="radio"/> Increase 1 <input type="radio"/> decrease 2 <input type="radio"/> No change 3
N q8_7_5a 8.7.5a By how much increased?	select_one increase \$ {q8_7_4} =1 and \$ {q8_7_1} =1 and \$ {q8_7_2a} > 1 R <input type="radio"/> 0 – 24% (“a little”) 1 <input type="radio"/> 25-49% (“some”) 2 <input type="radio"/> 50-74% (“a lot”) 3 <input type="radio"/> 75-100% (“almost doubled”) 4

N q8_7_5b 8.7.5b By how much decreased?	select_one decrease $\{q8\_7\_4\} = 2$ and $\{q8\_7\_1\} = 1$ and $\{q8\_7\_2a\} > 1$ R <input type="radio"/> 0 – 24% (“a little”) <sup>1</sup> <input type="radio"/> 25-49% (“some”) <sup>2</sup> <input type="radio"/> 50-74% (“a lot”) <sup>3</sup> <input type="radio"/> 75-100% (“almost stopped water consumption”) <sup>4</sup> <input type="radio"/> 75-100% (“almost stopped electricity consumption”) <sup>5</sup> parent <= 2 F
N q8_7_6 8.7.6 How much time did it take to switch to the substitute? Type 0 if “immediately” Type 9999 if “Don’t know/Don’t remember”	integer $\{q8\_7\_1\} = 1$ and $\{q8\_7\_2a\} > 1$ R
N q8_7_6tm 8.7.6 Time	select_one quantity $\{q8\_7\_1\} = 1$ and $\{q8\_7\_2a\} > 1$ R <input type="radio"/> Hours <sup>1</sup> <input type="radio"/> Days <sup>2</sup>
N q8_8_1 8.8.1 Did you experience a power outage during the disaster?	select_one yes_no <input type="radio"/> Yes <sup>1</sup> <input type="radio"/> No <sup>2</sup>
N q8_8_2 8.8.2 After how long did electricity supply return to normal? Type 0 if “immediately” Type 7777 if “has not yet returned to normal” Type 9999 if “Don’t Know/Don’t Remember”	integer $\{q8\_8\_1\} = 1$ R
N q8_8_2tm 8.8.2 Time	select_one quantity $\{q8\_8\_1\} = 1$ R <input type="radio"/> Hours <sup>1</sup> <input type="radio"/> Days <sup>2</sup>
N q8_8_3 8.8.3 Which alternative energy source did you use as a substitute?	select_one q8_8_3 $\{q8\_8\_1\} = 1$ R <input type="radio"/> No substitute <sup>1</sup> <input type="radio"/> Solar <sup>2</sup> <input type="radio"/> Biogas <sup>3</sup> <input type="radio"/> Generator <sup>4</sup> <input type="radio"/> Kerosene <sup>5</sup> <input type="radio"/> Firewood <sup>6</sup> <input type="radio"/> Other <sup>98</sup>
N q8_8_3_other Please, specify	text $\{q8\_8\_3\} = 98$ R
N	integer

q8_8_3a 8.8.3a What was the cost of electricity from the alternative supply source? <i>In TZS Type 9999 if "Don't Know/Don't Remember"</i>	$\${q8\_8\_1} = 1$ R
N q8_8_3aunit 8.8.3a Unit	select_one electcost $\${q8\_8\_1} = 1$ R <input type="radio"/> Shillings/day <sup>2</sup> <input type="radio"/> Shillings/week <sup>3</sup> <input type="radio"/> Shillings/month <sup>4</sup>
N q8_8_4 8.8.4 After you switched to the new supply source, did your electricity consumption increase or decrease?	select_one change $\${q8\_8\_1} = 1$ and $\${q8\_8\_3aunit} > 0$ R <input type="radio"/> Increase <sup>1</sup> <input type="radio"/> decrease <sup>2</sup> <input type="radio"/> No change <sup>3</sup>
N q8_8_4a 8.8.4a By how much increased?	select_one increase $\${q8\_8\_4} = 1$ and $\${q8\_8\_1} = 1$ and $\${q8\_8\_3aunit} > 0$ R <input type="radio"/> 0 – 24% ("a little") <sup>1</sup> <input type="radio"/> 25-49% ("some") <sup>2</sup> <input type="radio"/> 50-74% ("a lot") <sup>3</sup> <input type="radio"/> 75-100% ("almost doubled") <sup>4</sup>
N q8_8_4b 8.8.4b By how much decreased?	select_one decrease $\${q8\_8\_4} = 2$ and $\${q8\_8\_1} = 1$ and $\${q8\_8\_3aunit} > 0$ R <input type="radio"/> 0 – 24% ("a little") <sup>1</sup> <input type="radio"/> 25-49% ("some") <sup>2</sup> <input type="radio"/> 50-74% ("a lot") <sup>3</sup> <input type="radio"/> 75-100% ("almost stopped water consumption") <sup>4</sup> <input type="radio"/> 75-100% ("almost stopped electricity consumption") <sup>5</sup> parent >= 2 F
N q8_8_5 8.8.5 How much time did it take to switch to the substitute? <i>Type 0 if "immediately"</i>	integer
N q8_8_5tm 8.8.5 Time	select_one quantity <input type="radio"/> Hours <sup>1</sup> <input type="radio"/> Days <sup>2</sup>
N q8_9_1 8.9.1 How many workers (including firm's owner) could not come to work because of the disaster during the week following the disaster? <i>We talk about the most serious natural disaster that affected your firm, as evoked earlier</i>	integer

N q8_9_2 8.9.2. How many workers never returned to their job after the disaster? <i>We talk about the most serious natural disaster that affected your firm, as evoked Type 8888. If there was no workers at the time of the disaster</i> C . <= \${q8_9_1} or . = 8888	integer  \${q8_9_1} > 0 R
N q8_9_3 8.9.3 After how many days did all workers return to work? <i>In days</i>	integer  \${q8_9_2} = 0 and \${q8_9_1} > 0 R
N q8_9_4 8.9.4 How many days did it take to replace all the workers who never returned? <i>In days. Type 7777 if "all workers have not been replaced yet". Type 0 if less than a day.</i>	integer  \${q8_9_2} > 0 and \${q8_9_1} > 0 R
N q8_9_5a 8.9.5a What were the MOST important reason for the workers' absence?	select_one q8_9_5 <input type="radio"/> Take care of family members 1 <input type="radio"/> Attend to damages to their homes 2 <input type="radio"/> Attend to damages in their communities 3 <input type="radio"/> Damage to public transport infrastructure (e.g. roads, bridges, rails)? 4 <input type="radio"/> Damage to private transport options (e.g. car, bike, motorbike) 5 <input type="radio"/> Other 98 <input type="radio"/> None 6
N q8_9_5a_other Please, specify	text  \${q8_9_5a} = 98 R
N q8_9_5b 8.9.5b What were the SECOND important reason for the workers' absence?	select_one q8_9_5 <input type="radio"/> Take care of family members 1 <input type="radio"/> Attend to damages to their homes 2 <input type="radio"/> Attend to damages in their communities 3 <input type="radio"/> Damage to public transport infrastructure (e.g. roads, bridges, rails)? 4 <input type="radio"/> Damage to private transport options (e.g. car, bike, motorbike) 5 <input type="radio"/> Other 98 <input type="radio"/> None 6  if(\${q8_9_5a}=98, name>0, name !=\${q8_9_5a}) F

N q8_9_5b_other Please, specify	text  \${q8_9_5b} = 98 R
N q8_9_6 8.9.6 Did you experience an increase in number of job seekers directly after the event?	select_one yes_no \${q8_9_2} != 8888 R <input type="radio"/> Yes 1 <input type="radio"/> No 2
N q8_9_7 8.9.7 How many workers has to be laid off due to impact of disaster on your firm? C . <=\${staff}	integer \${q8_9_2} != 8888 R
N finance_note We would like to know a little bit about your operational monthly costs, excluding the input costs	note
N q9_1 9.1 What is your total operational monthly cost? <i>Operational costs refers to maintenance cost (rent, security, maintenance, cleaning, wage cost, transports cost, water, electricity, premises cost, communication, and any other operation cost</i>	integer
N q9_1tm 9.1 Time	select_one electcost <input type="radio"/> Shillings/day 2 <input type="radio"/> Shillings/week 3 <input type="radio"/> Shillings/month 4 parent = 2 F
N q9_2 9.2 What are you total wage costs <i>Quantity (in TZS)</i>	integer
N q9_2tm 9.2 Time	select_one electcost <input type="radio"/> Shillings/day 2 <input type="radio"/> Shillings/week 3 <input type="radio"/> Shillings/month 4 parent = 2 F
N q9_3 9.3 What is your total transport related costs <i>Quantity (in TZS) (i.e. defrays for employees, transport of supplies, deliveries of goods to clients)</i>	integer
N q9_3tm 9.3 Time	select_one electcost <input type="radio"/> Shillings/day 2 <input type="radio"/> Shillings/week 3 <input type="radio"/> Shillings/month 4 parent = 2 F

N q9_4 9.4 What is the replacement cost of the firm's premises? (i.e. dwellings and land) <i>In TZS Type 7777 if the firm rents its premises</i>	integer
N q9_5 9.5 Assets: What is the total replacement cost of production/service machinery? <i>In TZS (incl. vehicle, machines, electronic equipment, furniture)</i>	integer
N gr9_6_quest 9.6 Investments: How much did you invest in the past 12 months in...	note
N q9_6_1 9.6.1 ... invest in new machinery <i>In TZS - Type 0 if did not invest in this</i>	integer
N q9_6_2 9.6.2 ... invest in product design and development <i>In TZS - Type 0 if did not invest in this</i>	integer
N q9_6_3 9.6.3 ... invest in upgrading/repairing building and land <i>In TZS - Type 0 if did not invest in this</i>	integer
N q9_6_4 9.6.4 ... invest in other measures for business expansion <i>In TZS - Type 0 if did not invest in this</i>	integer
N q9_6_5 9.6.5 ... invest in measures to protect against disasters (e.g. flood protection) <i>In TZS - Type 0 if did not invest in this</i>	integer
N email I would really appreciate if you could provide your email. Your name will be kept private and separate from the study. As previously mentioned, only the researchers evaluation team will have access to your name and the details of your results, and this will only be used for follow-up and directly related research purposes. All information that is collected in this study will be treated confidentially.	text
N phone I would really appreciate if you could provide your phone number.	text

<i>Code "9999999999" for 'I don't have' / 'I don't want to give'</i> C string-length(.) = 10 M Number of digits must be 10	
N final Survey is finished	select_one yes_no <input type="radio"/> Yes <sup>1</sup> <input type="radio"/> No <sup>2</sup>  name = 1 F