



## Welcome to Dissemination Ceremony on

# Bangladesh Disaster-related Statistics 2015

## *Climate Change and Natural Disaster Perspectives*

**Presented by:**

**Md. Rafiqul Islam**

Program Director

Impact of Climate Change on Human Life  
(ICCHL) Programme, BBS

**Venue:** NEC Auditorium, Planning Commission, Sher-E-Bangla Nagar, Dhaka

**Date:** 26 June 2016



## Contents

**Introduction**

**Objectives**

**Sampling Frame and Methodology**

**Glimpses of Key Findings**

**Summary**

**Institutionalization in BBS**

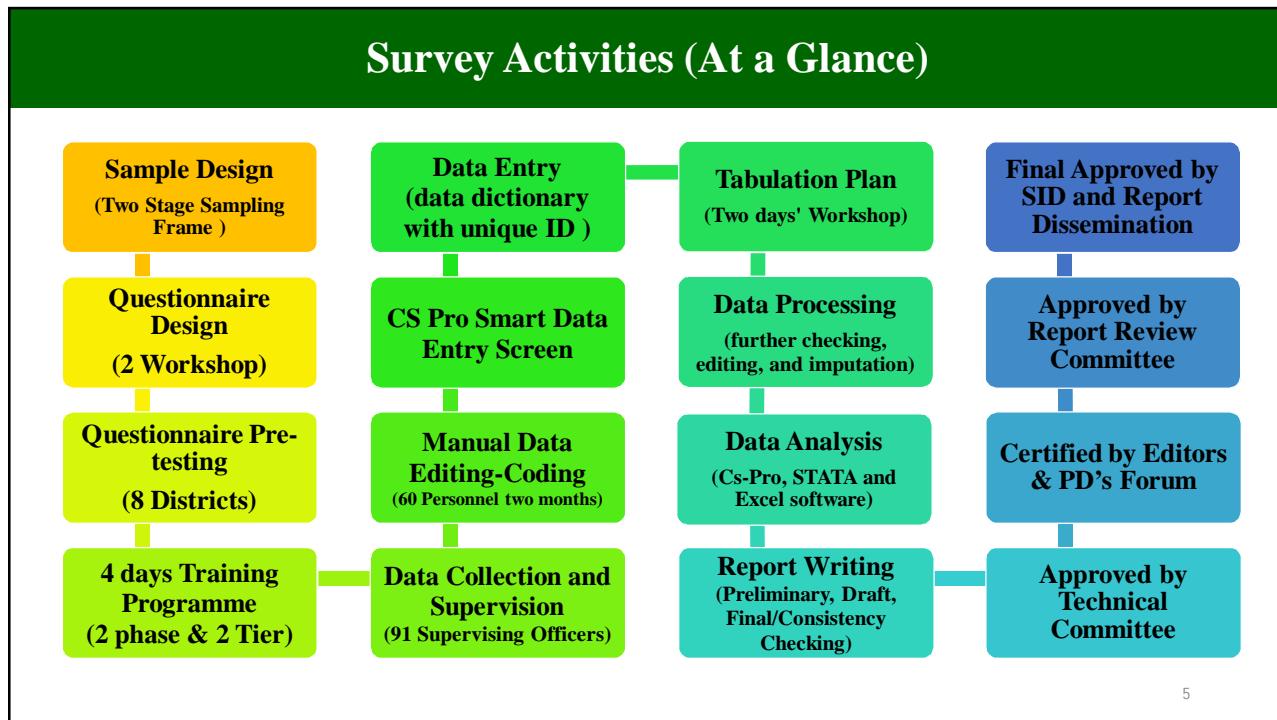
## Introduction

- Climate Change and its impacts (Natural Disasters) are the current burning issues in the world and the **greatest threat** to the mankind, its challenges are **multi-dimensional, multi-sectoral, have immediate as well as long term effects**;
- Every year Bangladesh faces many natural disasters like drought, flood, water-logging, cyclone and tidal surge, tornado, thunderstorm, river/coastal erosion, landslides, salinity intrusion, hailstorm, extreme weather events etc.
- **Asia Pacific Disaster Report 2015 (UN-ESCAP)** has shown **Bangladesh one of the most vulnerable among 15 countries with high exposure to and its risk position is 10th (Exp.) and 5th (Risk).**
- Bangladesh is also known as one of **the most resilient countries** of the world despite the regular and devastating disastrous events, the country manages to attain significant progress in almost all sectors of the MDGs.

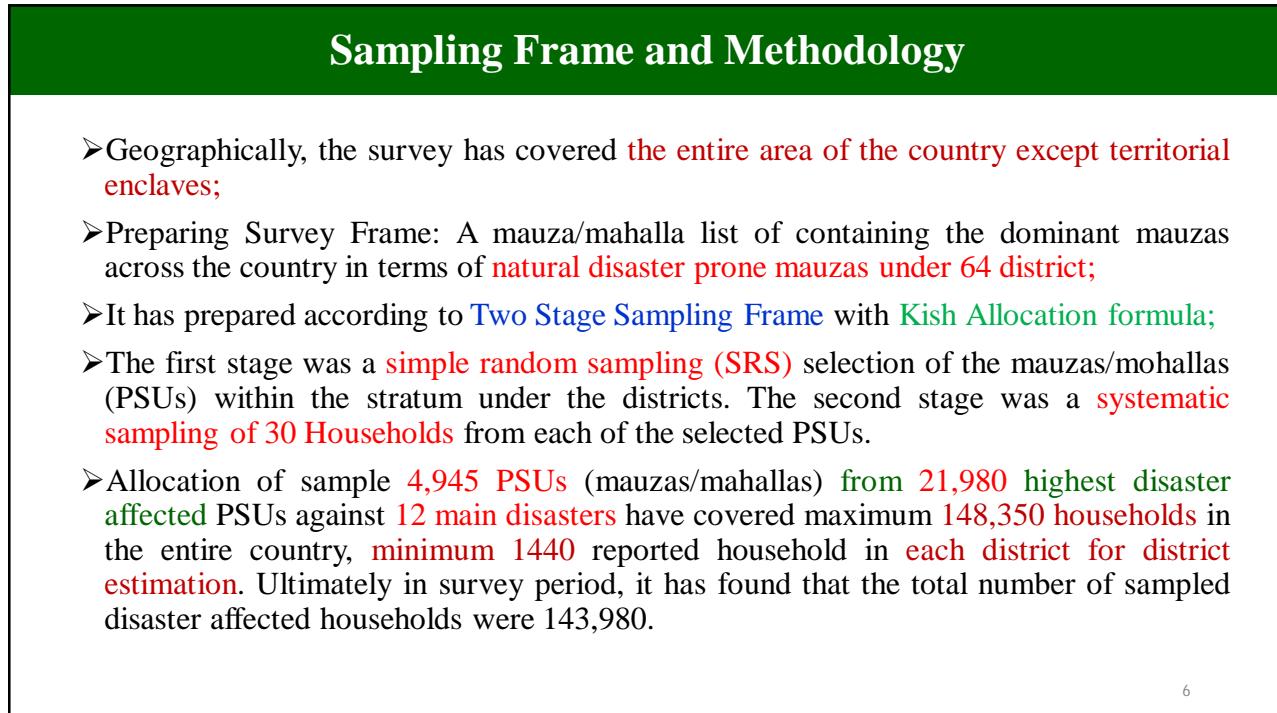
## Objectives

**The Report on “Bangladesh: Disaster-related Statistics 2015: *Climate Change and Natural Disaster Perspectives*” under the ICCHL Programme which has covered following objectives:**

- 1) To measure the socio-economic characteristics of Household and Population in disaster prone area
- 2) To assess the loss of agricultural production (Crops, Livestock, Poultries, Fisheries and Homestead Forestry) due to natural disasters;
- 3) To calculate the damage and loss of cultivable land and useable land in disaster prone area;
- 4) To measure the damage and loss of residence (dwelling), cowshed, kitchen in the disaster prone area;
- 5) To collect data of health and sanitation condition from the natural disaster prone area;
- 6) To assess the vulnerability of the women, children, aged persons and person with disability; and
- 7) To collect information on the perception and knowledge about climate change, impact of climate change, environment and disaster management.



5



6

3

## Scope and Coverage

- Geographically, the survey covered the entire country except former territorial enclaves.
- To cover disaster prone areas (mauzas/mahallas), a mauza/mahalla list containing the dominant mauzas/mahallas across the disaster prone areas under 64 districts was generated. Mauzas/mahallas are simply called as a Primary Sampling Unit (PSU)
- The survey captured various data and information of the sample households pertaining to **their livelihood activities in relation to the direct and indirect impacts of climate change and natural disaster.**
- It did not attempt to collect information on the climate parameters or components like **temperature, rainfall or anything in relation to carbon emission, greenhouse gas etc.**

7

## Concepts and Definitions

- **Climate Change and Disaster-related concepts and definitions have been taken in the following national evidences and documents:**
  - Disaster Management Act 2012: Ministry of Disaster Management and Relief, Government of the People's Republic of Bangladesh.
  - Standing Orders on Disaster (SOD) 2010: Ministry of Food and Disaster Management Disaster Management & Relief Division, Disaster Management Bureau, Government of the People's Republic of Bangladesh.
  - Durjog Kosh (Disaster Dictionary) 2009: Ministry of Disaster Management and Relief, GOB
  - National Plan for Disaster Management 2010-2015: Ministry of Disaster Management and Relief, Government of the People's Republic of Bangladesh.
  - National Strategy on the Management of Disaster and Climate Induced Internal Displacement (Nsmdciid), Ministry of Disaster Management and Relief.
  - Disaster, Damage, Loss and Needs Assessment Training Guidelines: Prepared for the Government of Bangladesh by the Global Facility for Disaster Reduction and Recovery.
  - Defining Sustainable Development: the World Commission on Environment and Development (Brundtland Commission), Milton Park: earthscan/Routledge, 2014
  - Banglapedia: National Encyclopaedia of Bangladesh.

8

4

## Glimpses of Key Findings

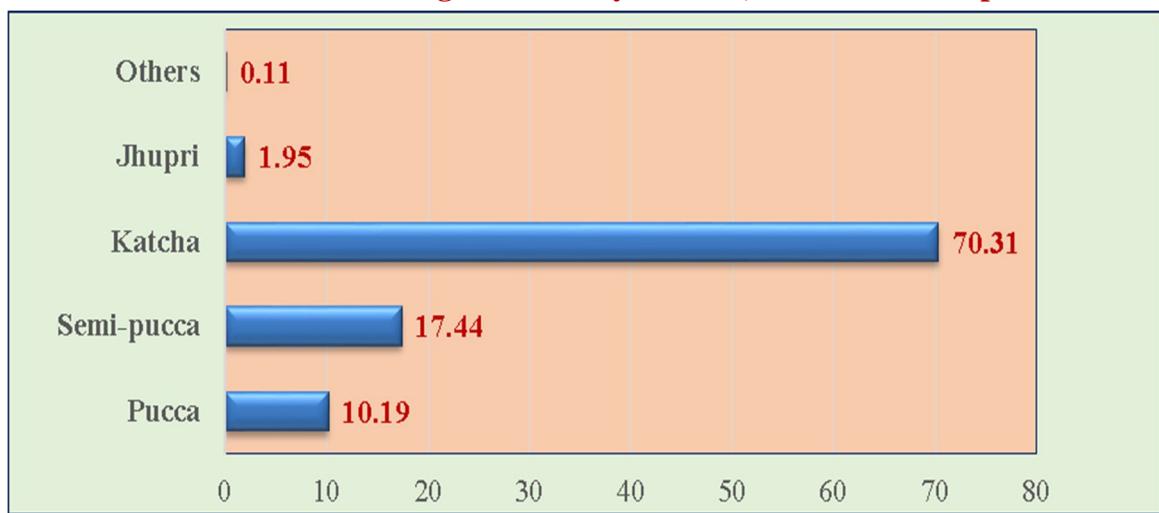
### Household, population and household size by division in disaster prone area

Division	Household	Population			Percentage (%)			Household Size
		Total	Male	Female	Total	Male	Female	
1	2	3	4	5	6	7	8	11
Bangladesh	4361261	20204367	10497444	9706923	100.00	51.96	48.04	4.63
Barisal	818137	3728172	1948496	1779676	18.45	9.64	8.81	4.56
Chittagong	430540	2203878	1168609	1035269	10.91	5.78	5.12	5.12
Dhaka	931668	4435469	2309931	2125538	21.95	11.43	10.52	4.76
Khulna	668873	2843763	1463319	1380445	14.07	7.24	6.83	4.25
Rajshahi	613704	2593770	1346316	1247453	12.84	6.66	6.17	4.23
Rangpur	488564	2146425	1111909	1034516	10.62	5.50	5.12	4.39
Sylhet	409776	2252890	1148864	1104026	11.15	5.69	5.46	5.50

About 13 % Household and 12.64 % Population live in disaster prone area of the country. Household size is slightly larger (4.63) than national size (4.44).

## Glimpses of Key Findings

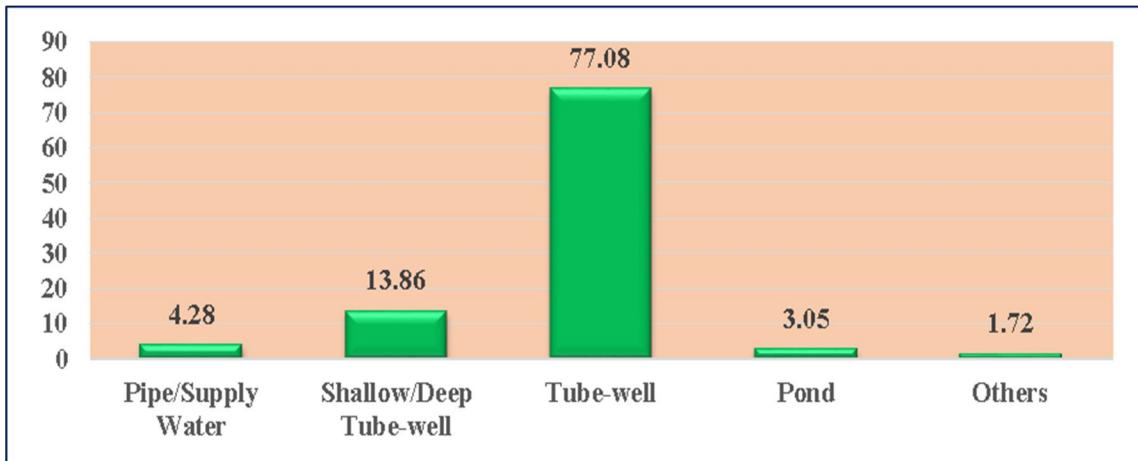
### Distribution of main dwelling structure by division, 2014 in disaster prone area



In National figure of main dwelling structure is Pucca 13.50 %, Semi Pucca 21.0 %, Kutch + others 65.50 % (SVRS 2014)

## Glimpses of Key Findings

### Percentage distribution of drinking water by source, 2014 in disaster prone area

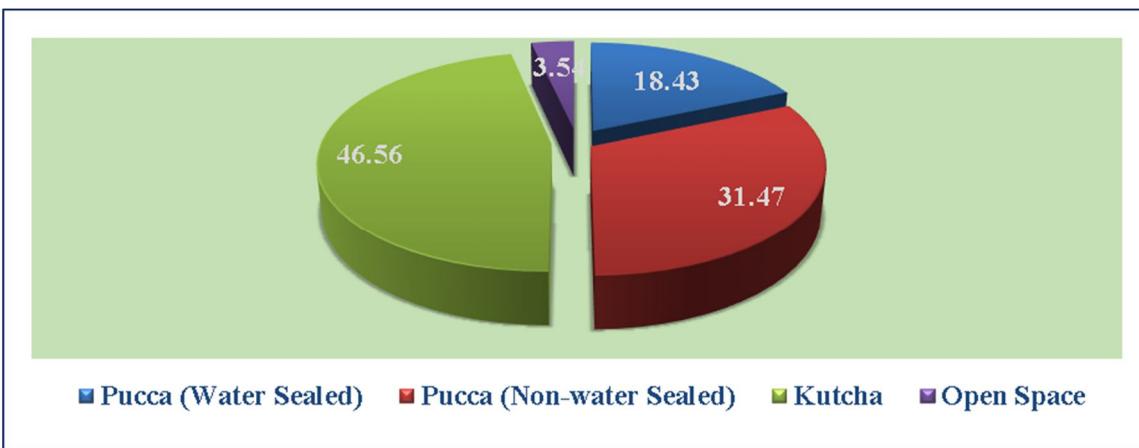


Pipe/Supply water + shallow/deep tube-well + Tube-well=95.23%, Pond + Others=4.77% source of drinking water in disaster prone area where national figure is 97.80 % and 2.20 (SVRS 2014)

11

## Glimpses of Key Findings

### Percentage distribution of toilet facilities by type, 2014 in disaster prone area.

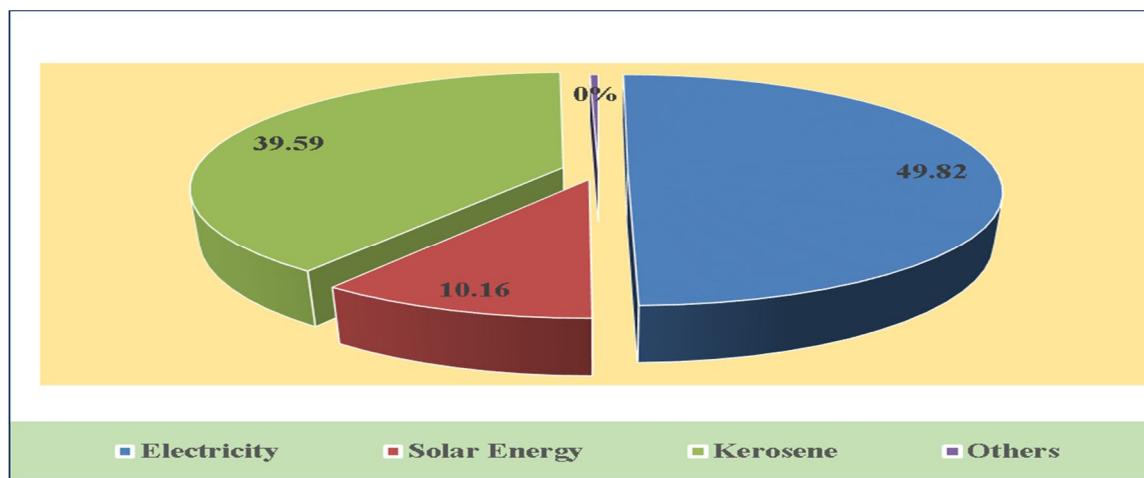


Total Pucca 49.90 %, Kutch 46.56, Open Space 3.54 toilet facilities in disaster prone area where national figure of total pucca 63.50%, Kutch 34.40 % and open space 2.10 % (SVRS 2014)

12

## Glimpses of Key Findings

### Percentage distribution of household by source of lighting 2014 in disaster prone area.

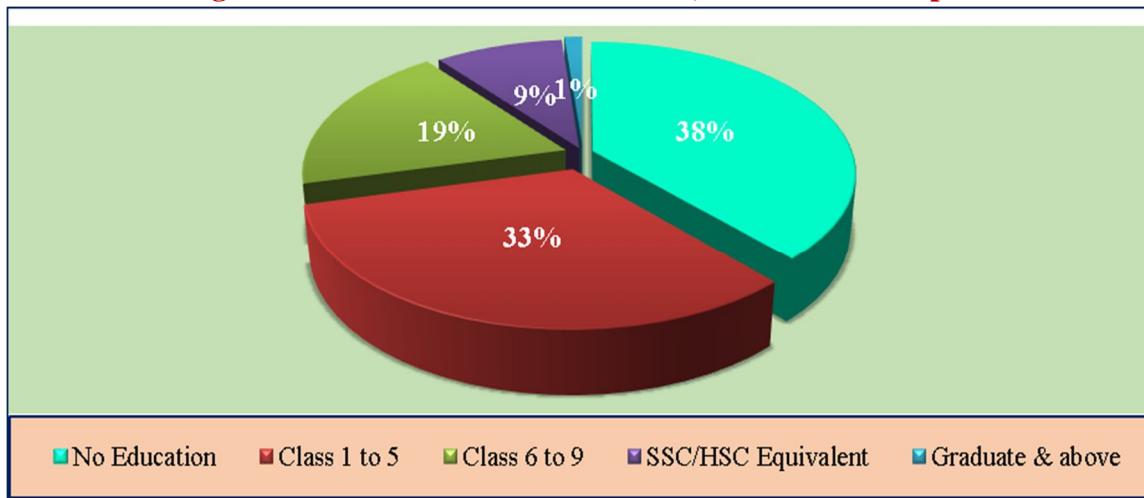


Electricity + Solar Energy=59.98 %, Kerosene + others=40.02 % source of lighting in disaster prone area where National figure of source of lighting Electricity + Solar Energy=67.80 %, Kerosene + others=32.20 % (SVRS 2014).

13

## Glimpses of Key Findings

### Percentage distribution of level of education, 2014 in disaster prone area



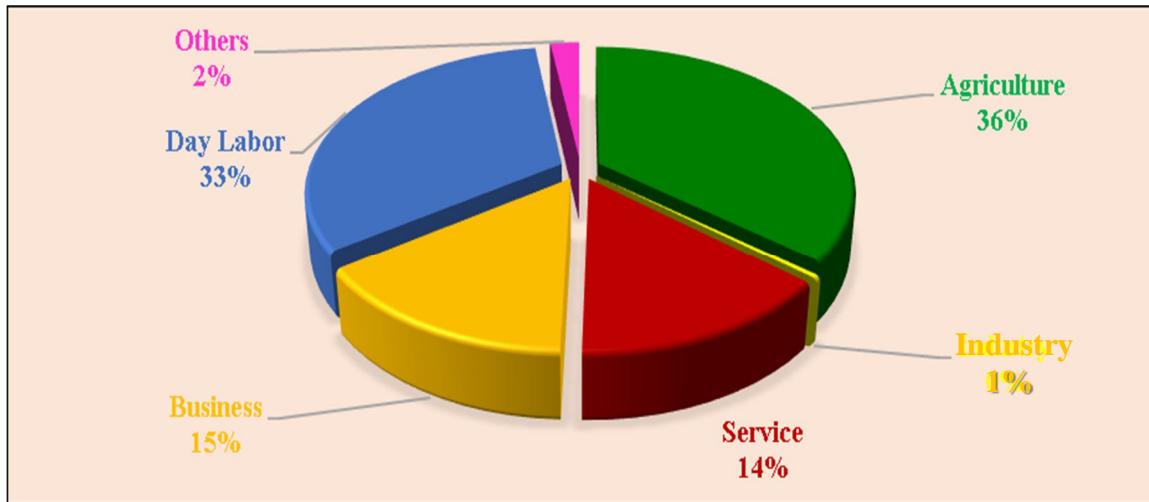
38 % people have no education in disaster prone area where national figure is 32 % (P. Sample Survey 2011)

14

7

## Glimpses of Key Findings

Percentage distribution of main source of household income 2014 in disaster prone area



15

## Glimpses of Key Findings

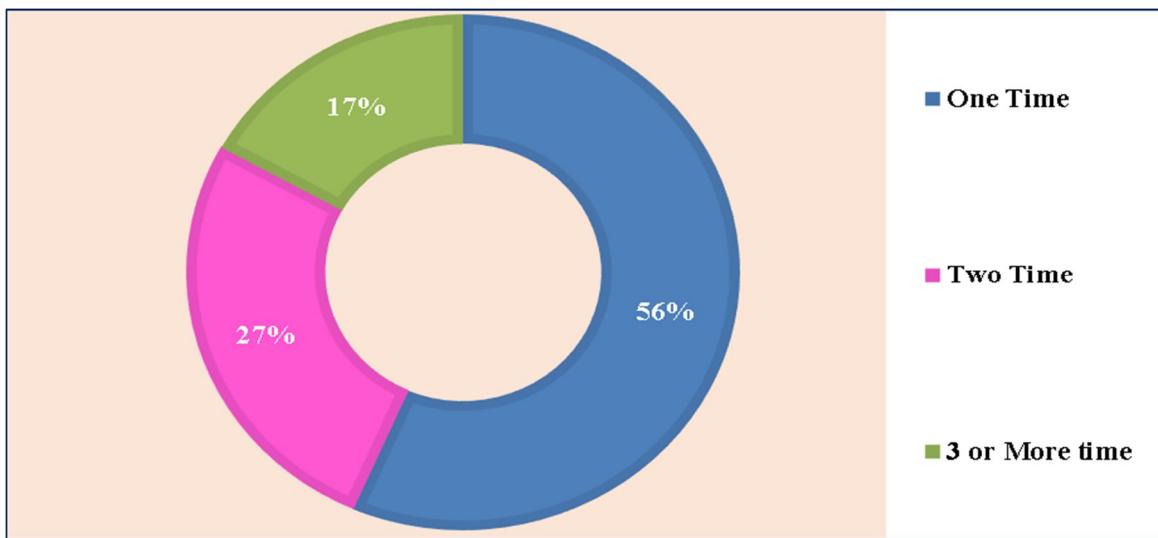
Distribution of disaster affected household by division and disaster, 2009-'14

Division	Total Household	Disaster Affected Household (%)												
		Drought	Flood	Water Logging	Cyclone	Tornado	Storm/Tidal Surge	Thunderstorm	River/Coastal Erosion	Landslides	Salinity	Hailstorm	Others (Fog, Insecticides etc.)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
<b>Bangladesh</b>	<b>4361261</b>	<b>14.80</b>	<b>34.48</b>	<b>13.88</b>	<b>21.31</b>	<b>4.14</b>	<b>8.65</b>	<b>14.94</b>	<b>4.95</b>	<b>0.08</b>	<b>4.09</b>	<b>11.88</b>	<b>7.90</b>	
Barisal	818137	1.41	5.24	3.91	78.31	0.91	31.51	3.72	4.35	0.00	0.85	0.31	0.05	
Chittagong	430540	10.61	32.03	34.39	30.96	1.80	13.51	8.39	7.01	0.80	5.30	9.46	12.86	
Dhaka	931668	19.89	51.89	18.68	0.00	3.88	0.00	17.69	6.42	0.00	0.00	20.86	9.27	
Khulna	668873	9.30	7.68	34.88	23.23	2.62	9.16	7.39	4.15	0.00	22.24	10.31	7.32	
Rajshahi	613704	25.39	48.47	0.65	0.00	7.51	0.00	20.40	3.39	0.00	0.00	12.86	14.73	
Rangpur	488564	23.99	41.74	0.68	0.00	12.30	0.00	23.53	6.87	0.00	0.00	16.62	8.34	
Sylhet	409776	16.51	69.97	2.57	0.00	1.30	0.00	31.84	1.95	0.02	0.00	12.54	5.42	

16

## Glimpses of Key Findings

Percentage of disaster affected time of household, 2009-'14 in disaster prone area

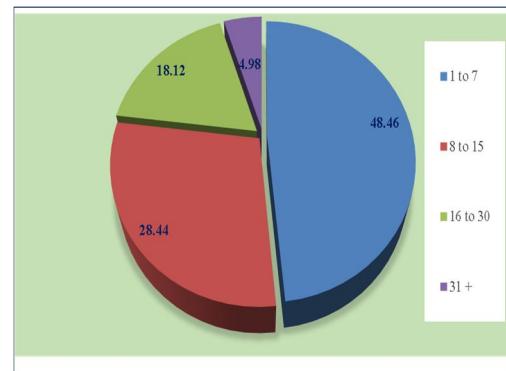


17

## Glimpses of Key Findings

Percentage distribution of non-working days due to last natural disaster, 2009-'14.

Disaster	Number of non-working days (%)					Average non working days per household
	Total	1 to 7	8 to 15	16 to 30	31 +	
<b>1</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
Total	100.00	48.46	28.44	18.12	4.98	12.13
Drought	8.17	3.61	2.69	1.47	0.39	12.09
Flood	26.93	4.98	10.62	9.39	1.94	17.63
Water logging	11.11	4.88	3.23	2.05	0.96	14.85
Cyclone	19.17	12.05	4.51	1.95	0.66	9.33
Tornado	3.26	2.65	0.45	0.14	0.03	5.72
Storm/Tidal Surge	7.95	4.92	1.50	1.06	0.47	10.80
Thunderstorm	6.37	3.73	2.14	0.46	0.04	7.60
River/Coastal Erosion	3.62	1.23	1.13	0.92	0.34	16.86
Landslides	0.05	0.04	0.01	0.00	0.00	5.67
Salinity	1.51	1.18	0.24	0.08	0.01	6.80
Hailstorm	7.50	6.29	0.76	0.34	0.12	5.30
Others (Fog, Cold wave etc.)	4.37	2.91	1.16	0.26	0.04	7.15



18

## Glimpses of Key Findings

### Distribution of damage and loss at HH levels by sector and by disaster categories, 2009-'14.

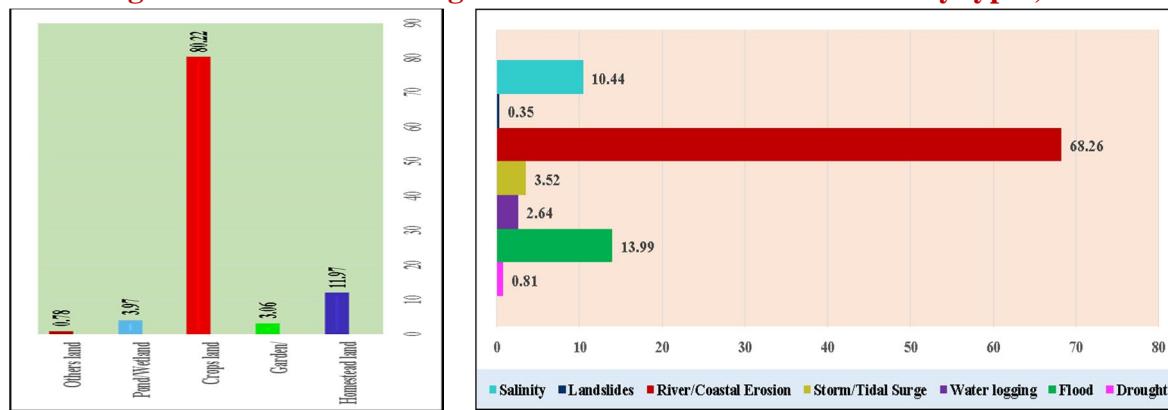
Disaster	Damage and Loss (by sector)									
	Total	Crops	Livestock	Poultry	Fishery	Land	Houses (Cowshed, Kitchen etc)	Homestead & forestry		
1	2	3	4	5	6	7	8	9		
	in million taka	%	Percentage (%)							
All	184247.34	100.00	36.20	4.76	1.21	5.82	26.72	17.19	8.10	
Drought	10569.20	5.74	4.96	0.10	0.04	0.10	0.38	0.00	0.14	
Flood	42807.19	23.23	12.03	1.29	0.32	1.08	4.87	2.74	0.91	
Water logging	16062.24	8.72	4.70	0.38	0.11	1.34	0.84	0.96	0.39	
Cyclone	28384.81	15.41	2.28	1.70	0.41	1.14	0.00	5.88	3.99	
Tornado	4299.03	2.33	0.53	0.08	0.02	0.00	0.00	1.35	0.36	
Storm/Tidal Surge	12676.02	6.88	1.27	0.42	0.17	1.78	1.80	1.00	0.44	
Thunderstorm	10940.12	5.94	1.35	0.23	0.06	0.00	0.00	3.37	0.92	
River/Coastal Erosion	36408.92	19.76	0.58	0.40	0.02	0.18	17.23	1.10	0.25	
Landslides	249.01	0.14	0.00	0.00	0.00	0.00	0.11	0.01	0.01	
Salinity	6072.94	3.30	1.17	0.08	0.01	0.00	1.50	0.03	0.51	
Hailstorm	11471.69	6.23	5.25	0.03	0.01	0.00	0.00	0.75	0.18	

From (FY) 2009-15 average GDP (per year) volume is 11,378,286 Million BDT. In 2009-14 (CY) period average per year 30,708 Million BDT. If No damage and loss in that period at hh. levels. GDP volume could be increased about average 0.30 % per year .

19

## Glimpses of Key Findings

### Percentage distribution of damage of land area at household levels by types, 2009-'14.



Out of 155175 acres of land 11.97%, 3.06%, 80.22%, 3.97% and 0.78% land was damaged for the homestead, garden or nursery, crops, pond or wetland and others land respectively. The Figure indicates that the majority (68.26%) of land damage is due to river or coastal erosion followed by (13.99%) are in flood, (10.44%) are in salinity and the rest (7.32%) comprise five categories of disaster areas.

20

10

## Glimpses of Key Findings

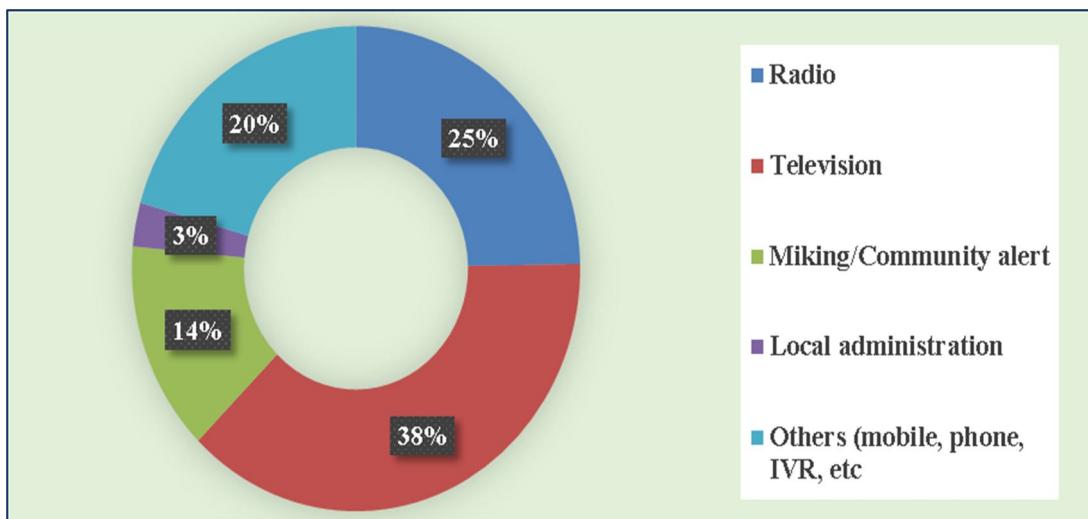
### Distribution of affected household received early warning and took preparedness by disaster, 2009-'14.

Disaster	Household		Percentage (%)	Household		Percentage (%)
	Affected	Got early warning		Got early warning	Preparedness	
1	2	3	4	5	6	7
Total		1223835	19.89	1223835	814450	66.55
Drought	645381	30981	4.80	30981	-	-
Flood	1503742	268303	17.84	268303	50597	18.86
Cyclone	929410	620203	66.73	620203	548782	88.48
Tornado	180422	17675	9.80	17675	4183	23.67
Storm/Tidal Surge	377265	230261	61.03	230261	181570	75.85
Thunderstorm	651492	38330	5.88	38330	24065	62.78
River/Coastal Erosion	215702	10989	5.09	10989	5253	47.80
Landslides	3520	112	3.18	112	-	-
Hailstorm	518180	6981	1.35	6981	-	-

21

## Glimpses of Key Findings

### Household received early warning by type of media and disaster, 2009-'14

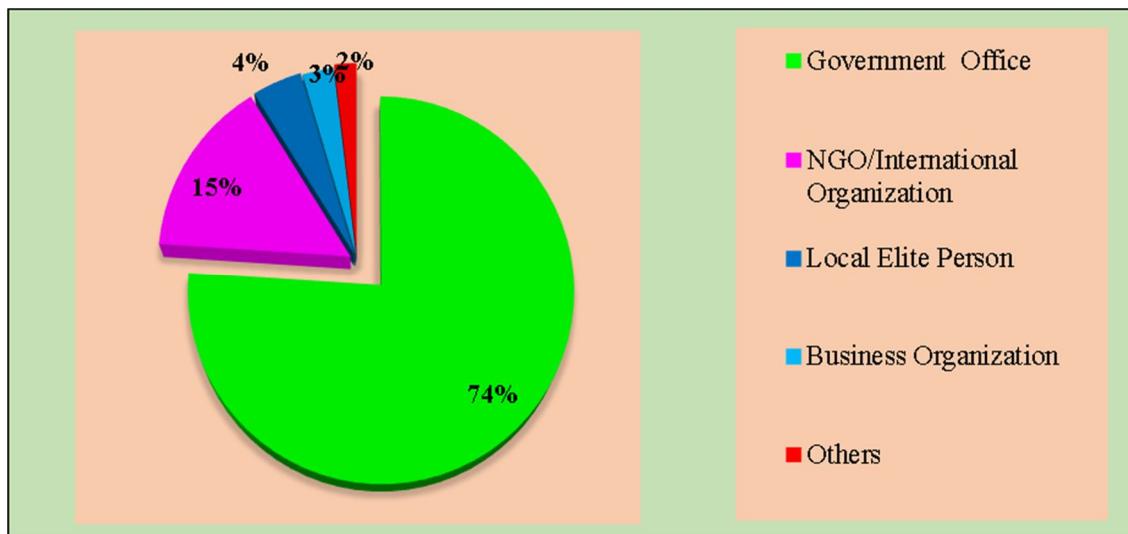


22

11

## Glimpses of Key Findings

Percentage of household received financial support by organization, 2009-'14



23

## Glimpses of Key Findings

Distribution of population suffering from sickness and injury by sex and division, 2009-'14.

Division	Total	Sickness		Injury	
		Male	Female	Male	Female
1	2	3	4	6	7
Bangladesh	1890734	52.40	47.60	58.12	41.88
Barisal	229251	6.40	5.72	7.59	5.45
Chittagong	239272	6.80	5.85	11.81	5.99
Dhaka	396412	11.22	9.75	8.45	6.98
Khulna	245308	6.64	6.33	10.25	5.84
Rajshahi	305726	8.57	7.60	9.15	6.74
Rangpur	228204	6.11	5.96	4.15	5.11
Sylhet	246562	6.65	6.39	6.72	5.76

24

12

## Glimpses of Key Findings

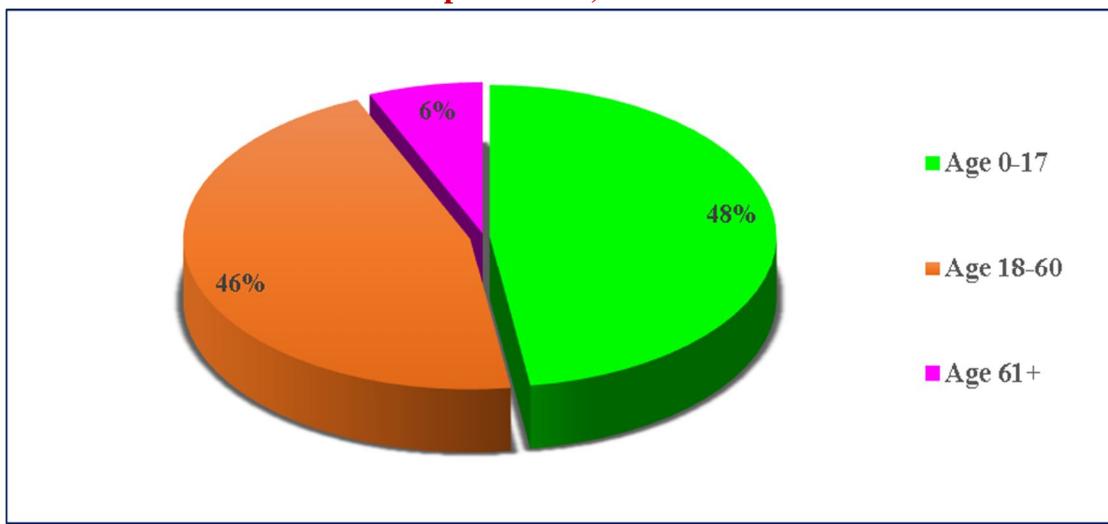
### Distribution of population suffering from sickness and injury by age group and disaster, 2009-'14.

Disaster	Total	Sickness (Age group)			Injured (Age group)		
		00 - 17	18 - 60	61 +	00 - 17	18 - 60	61 +
1	2	3	4	5	7	8	9
<b>Total</b>	1890734	69.53	25.83	4.63	36.54	47.33	16.13
<b>Drought</b>	133610	4.71	2.03	0.33	0.00	0.00	0.00
<b>Flood</b>	905781	33.76	12.24	1.91	19.87	17.94	4.09
<b>Water logging</b>	235009	8.45	3.29	0.68	1.77	4.39	1.51
<b>Cyclone</b>	228215	8.44	2.91	0.72	4.32	5.34	5.55
<b>Tornado</b>	22613	0.86	0.28	0.05	2.05	5.29	1.08
<b>Storm/Tidal Surge</b>	86347	3.08	1.27	0.21	0.76	2.39	0.72
<b>Thunderstorm</b>	89675	3.71	0.92	0.12	2.60	3.63	0.46
<b>River/Coastal Erosion</b>	16139	0.55	0.22	0.08	2.01	1.64	0.51
<b>Landslides</b>	785	0.02	0.02	0.00	0.00	0.01	0.00
<b>Salinity</b>	15073	0.36	0.41	0.03	0.00	0.00	0.00
<b>Hailstorm</b>	65887	2.24	0.97	0.28	1.93	5.53	1.63
<b>Others (Fog etc.)</b>	91600	3.34	1.27	0.23	1.23	1.17	0.60

25

## Glimpses of Key Findings

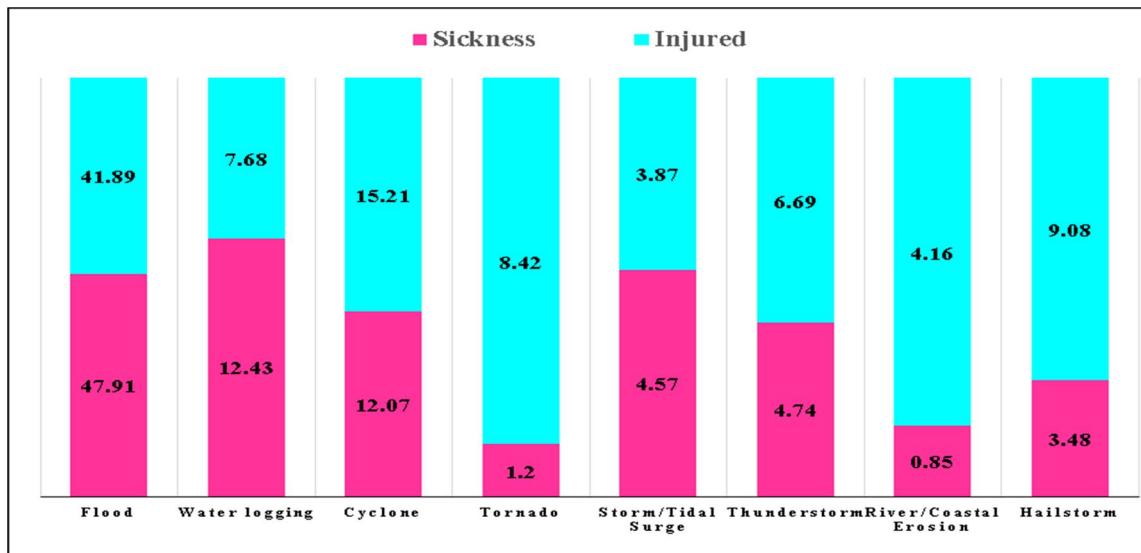
### Percentage of household members suffering from disease by age group in disaster prone area, 2014.



26

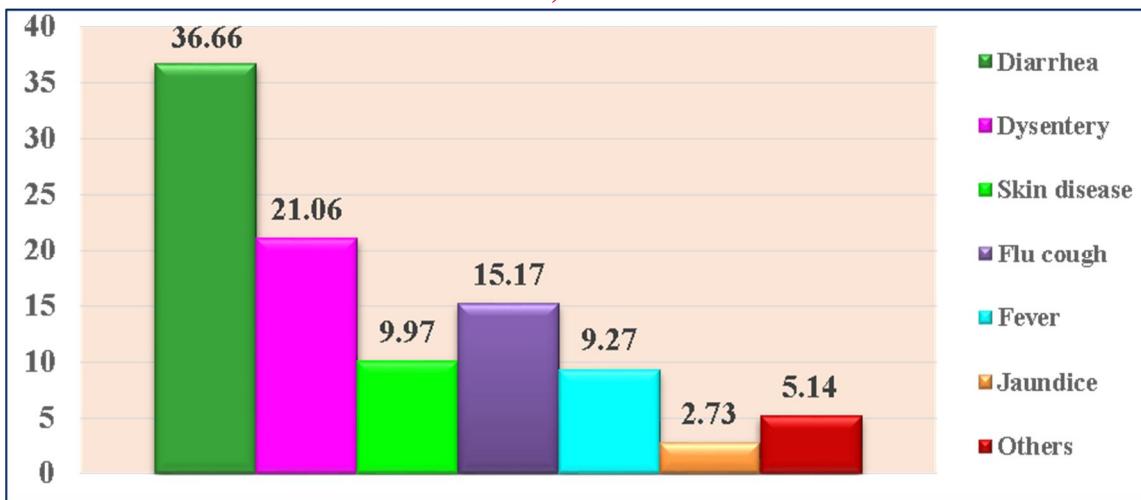
## Glimpses of Key Findings

### Percentage distribution of suffering from sickness and injury by disaster, 2009-'14



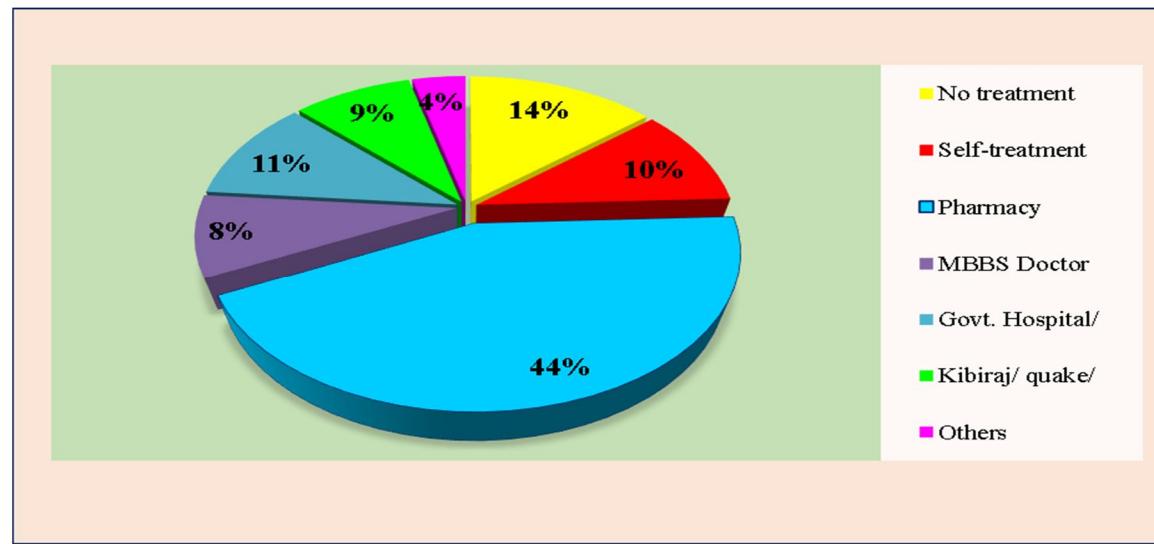
## Glimpses of Key Findings

### Household members suffering from of disease due to insufficient supply of drinking water, 2009-'14



## Glimpses of Key Findings

Percentage of household received treatment of disease by facilities, 2009-'14



29

## Glimpses of Key Findings

Percentage of sick children received treatment and medical expenditure by division, 2009-'14.

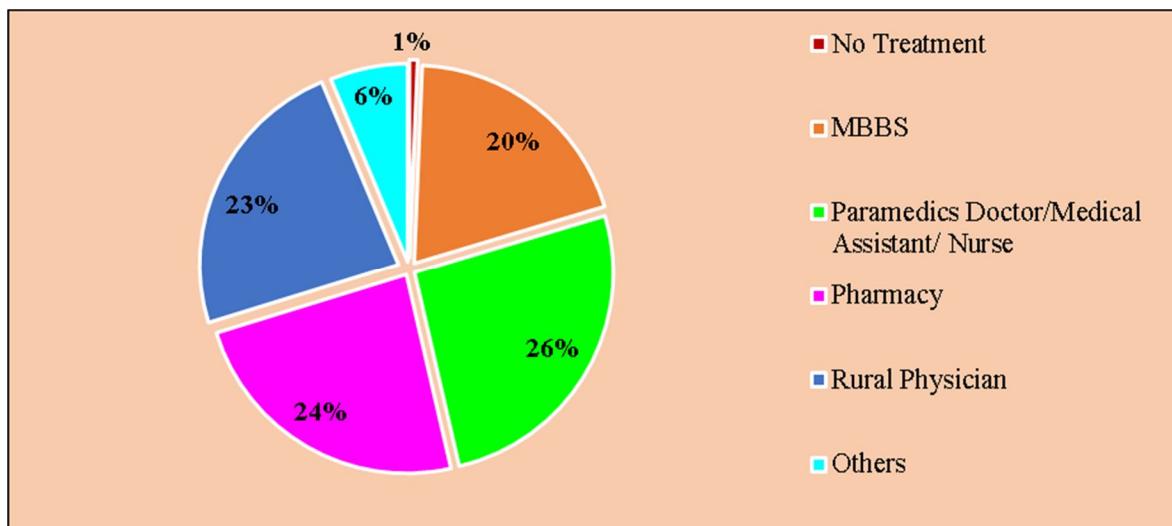
Division	Type of treatment received							Average Treatment Cost
	Total	No Treatment	MBBS	Paramedic Doctor/Medical Assistant/Nurse	Pharmacy	Rural Physician	Others (kabiraj, homeo, ojha)	
1	2	3	4	5	6	7	8	10
Percentage (%)								(in thousand Tk.)
Total	100.00	0.65	19.70	26.04	23.85	23.44	6.32	15.09
Barisal	13.24	0.01	2.80	2.33	4.64	2.66	0.79	16.35
Chittagong	12.75	0.08	4.43	2.35	1.81	3.46	0.61	15.25
Dhaka	21.70	0.26	4.32	6.21	6.47	3.16	1.29	14.76
Khulna	10.96	0.04	2.37	2.42	2.40	3.12	0.61	14.25
Rajshahi	15.44	0.08	2.92	3.91	2.98	4.28	1.27	15.04
Rangpur	12.14	0.08	1.26	3.80	2.71	3.21	1.08	16.52
Sylhet	13.77	0.09	1.59	5.03	2.84	3.55	0.67	13.71

30

15

## Glimpses of Key Findings

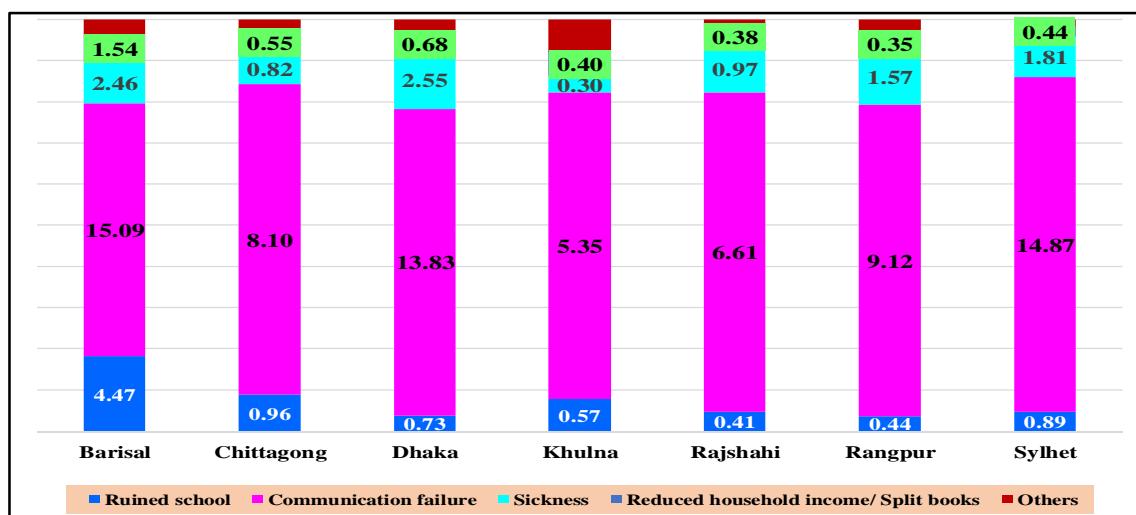
Percentage of sick children received treatment by type of facilities, 2009-'14.



31

## Glimpses of Key Findings

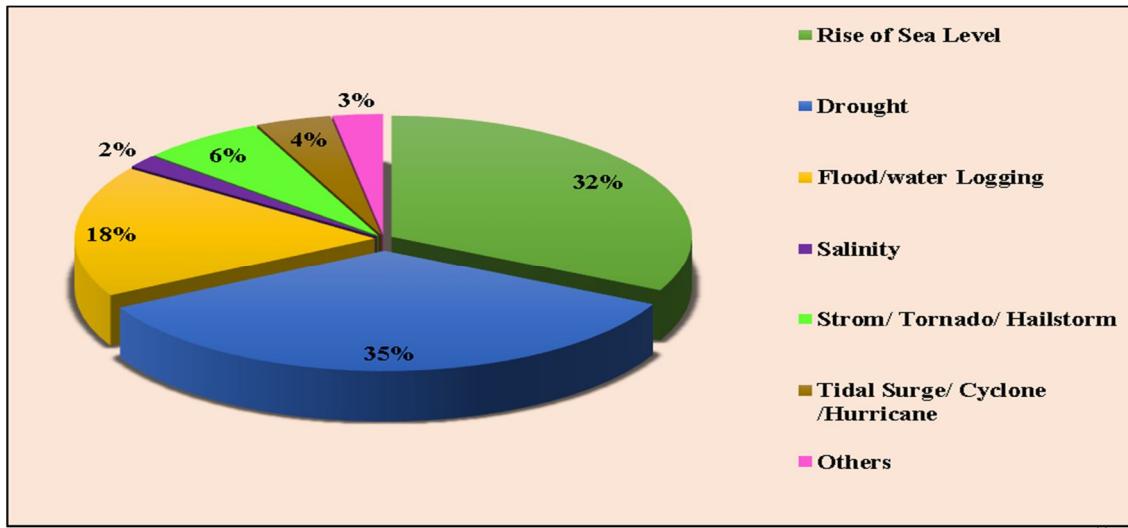
Percentage distribution of causes of children not attending school due to disaster by type and division, 2009-'14.



16

## Glimpses of Key Findings

**Percentage of household having knowledge and perception about impacts of climate change, 2014.**

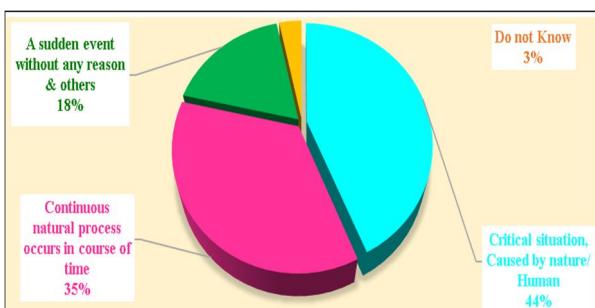


33

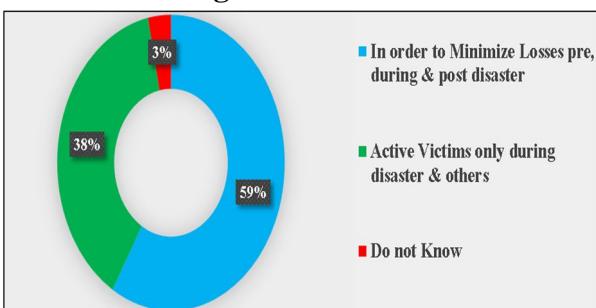
## Glimpses of Key Findings

**Percentage of household having knowledge and perception about disaster and disaster management, 2014**

### Disaster



### Disaster Management



The highest 44 % households explained disaster as critical situation, caused by nature or human. The second highest 35 % households termed it as continuous natural process occurs in the course of time. The third highest 18 % households reported it as a sudden event without any reason & others and remaining 3 %, households did not know.

The highest 59 % households have knowledge and perception about disaster management to minimize losses in pre, during & post disaster, 38 % households were found as active victims only during disaster & others and the rest of 3.23% households is reported they did not know about it.

34

17

## Standard Error

### Standard error calculate of total income and total damage and loss

Item by Division/District	Mean	Linearized standard error	[95% Conf. Interval]		Relative Standard Error (%)
			Lower level	Upper level	
1	2	3	4	5	6
<b>Bangladesh</b>					
Total income	139356.90	1468.91	136477.20	142236.60	1.05
Total damage and loss	42246.34	1337.44	39624.36	44868.32	3.17

35

## Vulnerability Assessment based on quintile income group

Household Group	Average Annual Income (Tk)	Average Annual Damage and Loss (Tk)									Proportion of damage and loss to total income
		Crops	Livestock	Poultry	Fishery	Land	Houses	Homestead forestry	Total		
1	2	3	4	5	6	7	8	9	10	11	
Q1	34957	2038	279	75	268	1351	1066	394	5471	15.7	
Q2	74590	1776	270	77	220	1397	1231	382	5353	7.2	
Q3	105986	1987	331	87	300	1888	1255	529	6377	6.0	
Q4	152092	2566	353	92	395	2026	1260	743	7435	4.9	
Q5	357897	4665	460	95	934	2877	1244	846	11121	3.1	
<b>Total</b>	<b>139357</b>	<b>2549</b>	<b>335</b>	<b>85</b>	<b>409</b>	<b>1881</b>	<b>1211</b>	<b>570</b>	<b>7040</b>	<b>5.1</b>	

As high as 16% of income goes for damage and loss in bottom quintile. While it is only 3% for the top quintile. Bottom quintile is more vulnerable (5 times) than top quintile in exposure to damage and loss. Proportion of damage and loss decrease as income goes up.

36

## Summary

- ❖ About 13 % Household and 12.65 % Population live in disaster prone area of the country. Household size is slightly larger than national size.
- ❖ Pipe/Supply water + shallow深深 tube-well + Tube-well=95.23%, Pond + Others=4.77% source of drinking water in disaster prone area where national figure is 97.80 % and 2.20 (SVRS 2014).
- ❖ Total Pucca 49.90 %, Kutchha 46.56, Open Space 3.54 toilet facilities in disaster prone area where national figure of total pucca 63.50%, Kutchha 34.40 % and open space 2.10 % (SVRS 2014).
- ❖ Electricity + Solar Energy=59.98 %, Kerosene + others=40.02 % source of lighting in disaster prone area where National figure of source of lighting Electricity + Solar Energy=67.80 %, Kerosene + others=32.20 % (SVRS 2014).
- ❖ 38 % people have no education in disaster prone area where national figure is 32 % (P. Sample Survey 2011).
- ❖ Out of total households, the highest percentage of household affected in one time are recorded as 56.52% followed by 26.57% are two times and 16.91% are three or more times.
- ❖ Highest percentage of households (66.73 %) received early warning during the cyclone, followed by storm or tidal surge (61.03 %) and flood (17.84 %) respectively. The highest percentage of households (88.48%) took preparedness in cyclone and the lowest (18.86 %) is found in flood.
- ❖ In case of early warning through media, The highest percentage of households (37.76%) are dependent on television, followed by radio (24.67%), other media 20.61%, miking/community alert 14.05% and rest of 2.91% households rely on local administration.

37

## Summary ....

- ❖ Out of 155175 acres of land 11.97%, 3.06%, 80.22%, 3.97% and 0.78% land was damaged for the homestead, garden or nursery, crops, pond or wetland and others land respectively. The large majority (68.26%) of land damage is due to river or coastal erosion followed by (13.99%) are in flood, (10.44%) are in salinity and the rest (7.32%) comprise five categories of disaster areas.
- ❖ Out of the total BDT 184247.34 million damage and loss, Dhaka division is found to lead with 25.00% damage and loss followed closely by Barisal division (20.07%), Khulna division (15.86%), Rajshahi division (11.77%), Chittagong division (10.33%), Sylhet division (8.50%) and Rangpur division (8.47%) respectively in the period of 2009-14.
- ❖ From (FY) 2009-15 average GDP (per year) volume is 11,378,286 Million BDT. In 2009-14 (CY) period average per year 30,708 Million BDT. If No damage and loss in that period at hh. levels. GDP volume could be increased about average 0.30 % per year .
- ❖ In case of sickness due to disaster, share of male sickness is 52.40% (990769) compared to female 47.60% (899965) and a total of 32908 persons are found injured of which 19126 (58.12%) are male and 13782 (41.88%) female.
- ❖ For children (00-17 years), average treatment cost (expenditure) during 2009 to 2014, which is taka 15.09 thousand. The highest Taka 16.52 thousand is spent in Rangpur division and the lowest taka 13.71 thousand is used in Sylhet division as average treatment cost.
- ❖ During disaster, the percentage of water borne disease affected households increase up to 94.20% and post disasters the percentage of households affected by water borne diseases are 91.65%.

38

19

## The Survey results align with Sendai Framework 2015-2030

### ➤ The Sendai Framework for Disaster Risk Reduction (SFDRR) 2015-2030:

SFDRR 2015-30 was adopted at the Third UN World Conference in Sendai, Japan, on March 18, 2015

(The Sendai Framework is the successor instrument to the Hyogo Framework for Action (HFA) 2005-2015: Building the Resilience of Nations and Communities to Disasters).

#### The seven global targets of Sendai Framework:

1. Reduce global disaster mortality
2. Reduce the number of affected people
3. Reduce direct disaster economic loss
4. Reduce disaster damage to critical infrastructure and disruption of basic services, among them health and educational facilities
5. Increase the number of countries with national and local disaster risk reduction strategies
6. enhance international cooperation
7. Increase the availability of and access to multi-hazard early warning systems and disaster risk information

39

## The Survey results align with SDGs

### ➤ Sustainable Development Goals (SDGs) 2015-2030:

- **Goal 1 calls for Ending poverty in all its forms everywhere, Target 1.5-**

*“By 2030, build the resilience of the poor and those in vulnerable situations and reduce their exposure and vulnerability to climate-related extreme events and other economic, social and environmental shocks and disasters.”*

- **Goal 11, Target 11.5 calls for making cities and human settlements inclusive, safe, resilient and sustainable-**

*“By 2030 significantly reduce the number of deaths and the number of affected people and decrease the economic losses relative to GDP caused by disasters, including water-related disasters, with the focus on protecting the poor and people in vulnerable situations.”*

- **Goal 13 calls for taking urgent action to combat climate change and its impacts\*,**

*“Target 13.1 Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries”; and*

*“Target 13.3 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning.”*

40

20

## The Survey results align with NSDS, 7<sup>th</sup>FYP and SDGs

Statistical Fields	NSDS Goals and Progress Indicators, BBS	7thFYP's DRF Indicators (2016-2020) Planning Commission	SDGs Targets United Nations (2016-2030)
1	2	4	5
Environment, Climate Change, and Disaster-related Statistics	Goal: 10, 14 PI: 10.1-10.3, 14.1-14.3	National Priority DRR, CCA, Mitigation etc.	Goals: 1, 11, 13, Tgt: 1.5, 11.5, 13.1, 13.3

41

## Institutionalization in BBS

- Statistics and Informatics Division (SID) already has approved and established “[Environment, Climate Change and Disaster-related Statistics Cell](#)” as an initiatives of institutionalization process (May 2016);
- SID has also approved “[Inter-Ministerial Technical Working Committee](#)” for preparing and compiling Environment, Climate Change and Disaster-related Statistics headed by Director General of BBS (February 2016);
- BBS in collaboration with the MoDMR has been a proud leading agency in the pilot testing of the Development of the [Disaster-related Statistics Framework \(DRSF\)](#) for the Asia Pacific Region as technical guidance by UN-ESCAP.
- This ICCHL Programme has established a [Disaster-related Database and Training Lab \(30 Person\)](#) with [Modern Work Station \(15 Person\)](#) at National Accounting Wing, BBS.

42

21

## *For Further Information about this report*

**Please Write:**

**Md. Rafiqul Islam**

Deputy Director and  
National Focal Point Officer (NFPO)  
Environment, Climate Change and  
Disaster-related Statistics  
National Accounting Wing  
Bangladesh Bureau of Statistics (BBS)

Email: [rafiqbbs25@gmail.com](mailto:rafiqbbs25@gmail.com)  
[rafiqbbs43@Hotmail.com](mailto:rafiqbbs43@Hotmail.com)

Cell Phone: +880-1712-141750

Website: [www.bbs.gov.bd](http://www.bbs.gov.bd)

## *Thank You for Patient Hearing*

