

User Manual

Digital Risk Information Platform (DRIP)



http://drip.plancomm.gov.bd

Center for Environmental and Geographic Information Services

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Acronyms and Abbreviation

CEGIS	Center for Environmental and Geographic Information Services
DIA	Disaster Impact Assessment
DRIP	Digital Risk Information Platform
GIS	Geographic Information System
IPCC	Intergovernmental Panel on Climate Change
UNFCC	United Nations Framework Convention on Climate Change
WARPO	Water Resources Planning Organization



Chapter One: Overview of DRIP

1.1 Introduction

Bangladesh is a country of natural calamity. It always stands at risk of growing loss and damage due to disasters and climate stresses. Limitations are found in incorporating disaster and climate change risks in all stages of development planning. This extensive linkage between disaster and development generates an urgency to establish a risk information platform/interface to access disaster and climate risk information and tools for risk-informed planning and investment. At present, the available databases for managing development project life cycles, and climate risk screening tools are quite fragmented and lacks contextual data and information on disaster and climate change risks. most of the risk screening tools are about physical hazards and risks and do not follow any integrated approach for risk and vulnerability assessment. To resolve the current lack of an integrated digital platform, a Digital Risk Information Platform (DRIP) is introduced.

This platform/interface is designed to provide necessary disaster and climate risk data and information to carry out Disaster Impact Assessment (DIA), a tool proposed by the National Disaster Management Council of Bangladesh headed by the Prime Minister, to ensure disaster resilient development. However, as such, there is no comprehensive database comprising tools and knowledge products to assist the planners to integrate disaster and climate risk data and information into development projects, plans, and programs for decision making and planning for risk-informed public investment

1.2 Objective

The Digital Risk Information Platform (DRIP), a specialized software application, aims to strengthen the institutional capacity of the Government of Bangladesh for assessing, understanding, and communicating disaster and climate-related risks, to integrate disaster risk information into development planning & budgeting, policies, and programs. The specific objectives of the project are listed below.

- Integrate disaster and climate risk information into development projects, plans, programs, and policies to ensure risk-informed public investment
- Facilitate access to risk information from a common platform
- Assist the Planning Officials in different ministries with available risk information in different sectors

(N.B. To get the best user experience from DRIP Web Application please use Google Chrome as the browser for report generation, print and download. Other browsers might have issues with report formatting while the report is downloaded)



1.3 Structure of DRIP



Figure 1. 1 Structure of DRIP

1.4 Home Page



Figure 1. 2 DRIP's Home Page

The home page of DRIP includes several sections they are:

- Navigation Bar
- Slider
- Informative Sections
- Lower Footer





1.4.1 Navigation Bar

The first section in the **Digital Risk Information Platform** is the **navigation bar**. It includes the following options.

- Home
- About
- Meta Data Viewer
- Information Viewer
 - Disaster Risk Map
 - Climate Projection Map
- Report Viewer
 - Development and Appraisal Tool
- Glossary
- More
 - User Guidelines
 - English
 - Bangla
 - Relevant Important Documents
 - Frequently Asked Questions
 - Feedback
- Register
- Login

1.4.2 Slider

Each slider shows information about certain disasters and after effects, a user can easily move forward and backward slides by clicking on the navigation button both right and left.



Figure 1. 4 Slider of the homepage

1.4.3 Informative Sections

There are several informative sections like aim, objectives, data sources, etc. in the **DRIP platform** which have been used to describe certain features and the numbers associated with DRIP.



Aim

The Digital Risk Information Platform (DRIP), a specialized software application, aims to strengthen the institutional capacity of the Government of Bangladesh for assessing, understanding and communicating disaster and climate related risks, with the goal of integrating disaster risk information into development planning & budgeting, policies and programs

Figure 1. 5 Aim Section



Figure 1. 6 DRIP Resources



Objective of DRIP



Integrate disaster and climate risk information into development projects, plans, programs and policies to ensure risk-informed public investment



Facilitate access to risk information

from a common platform

Assisting the Officials

Assist the Planning Officials in different ministries with available risk information in different sectors

Figure 1. 7 DRIP Objective



Figure 1.8 Future Scenario of Temperature and Precipitation related information



Figure 1. 9 Data Sources of DRIP

The Data Source section views the name of data-providing agencies of the DRIP system. A user will be able to see the link of each organization on the mouse hover to individual cards. By clicking on the link, the user will be redirected to the corresponding organization's website.



1.4.4 Lower Footer

-	Programming Division			
	Sher-e-Bangla Nagar, Dhaka-1207, Bangladesh.	> Relevent SDG Goals	> Terms of service	
	Phone: +9180700 Email: secretary@plandiv.gov.bd Web: www.plandiv.gov.bd	 Feedback + National Data Portal and Related Departments 	 Privacy policy Global Risk Data Platforms and Related Organization 	

Figure 1. 10 Lower Footer

In the lower footer there are several important links:

- Global Risk Data Platforms and Related Organizations
 - Global Risk Data Platform
 - Aqueduct Global Flood Analyzer
 - The Global Integrated Drought Monitoring and Prediction System
 - Global Risk Data Platform: Preview
 - UNDRR
 - IPCC
 - UNFCC
- National Data Portal and Related Departments
 - Planning Commission
 - Department of Disaster Management
 - Department of Environment
 - Bangladesh Bureau of Statistics
 - Bangladesh Water Development Board
 - Local Government Engineering Department: GIS Section
 - Bangladesh Agricultural Research Council: Maps
 - Water Research Planning Organization
 - GEODASH

To select a national data portal or global risk data platforms and organizations:

- Click on the link National Data Portal and Related Departments/ Global Risk Data Platforms and Related Organizations
- Select the desired item from the dropdown.
- Click on the National Data Portal and Related Departments/ Global Risk Data Platforms and Related Organizations again or press ESC.



1.5 User Guidelines

To visit user guidelines, follow the following steps:

- Click the more button.
- Hover on the User Guidelines.
- Select English or Bangla for guideline language.

Finally, a page will be visible like below.



Figure 1. 11 User Guideline

One of the important sections on DRIP's home page is the **Important links** section.

- Feedback
- Terms of Conditions
- Privacy Policy
- Global Risk Data platforms and Related Organizations
- National Data Portal and Related Organizations



Chapter Two: Meta Data Viewer

2.1 Overview

DRIP system includes overall summary data of possible risk based on DRIP system. The Metadata Information includes vital information like -

- Indicator
- Component
- Sub-Component
- Title
- Abstract
- General
- Quality
- Completeness
- History of the dataset
- Purpose of the production
- Process description
- Type of dataset
- Dataset Language
- Additional information source for the dataset



Figure 2. 1 Home page

To go to **Meta Data Viewer**, Click on the **Meta Data Viewer** from the navigation bar. A webpage like below (Figure-2.2) will be rendered.



About Metadata Viewer Information Viewer* Report Viewer* Glossary More* More* Report Viewer* <t< th=""><th>Information Platforn</th><th>P</th><th></th><th>Programn</th></t<>	Information Platforn	P		Programn
Indicator micator: ····· Indicator ······ ··· ··· ··· ··· ··· ··· ··· ··	ne About Metadata Viewer Inforr	mation Vie	wer™ Report Viewer™ Glossary More™	🌲 Register 🛔 Logi
Indicator	Indicator Selection		Meta-data Details Information	
	ndicator:		Indicator	
ub-indicator: Sub-indicator ub-Sub-indicator: Field	Indicator 🗸		Component	
Sub-Indicator ub-Sub-Indicator: Abstract General Quality Completeness History of the dataset Purpose of production Process description Type of dataset Dataset Language Additional information source for the dataset	ub-Indicator:		Sub-Component	
Abstract General Guality Completeness Completeness History of the dataset History of the dataset History of the dataset Purpose of production Process description Type of dataset Dataset Dataset Additional information source for the dataset	Sub-Indicator 🗸		Title	
Field General Quality Completeness Completeness History of the dataset History of the dataset Purpose of production Process description Type of dataset Dataset Language Additional information source for the dataset	ub-Sub-Indicator:		Abstract	
QualityCompletenessHistory of the datasetPurpose of productionProcess descriptionType of datasetDataset LanguageAdditional information source for the dataset	Field 🗸		General	
CompletenessHistory of the datasetPurpose of productionProcess descriptionType of datasetDataset LanguageAdditional information source for the dataset			Quality	
History of the dataset Purpose of production Process description Type of dataset Dataset Language Additional information source for the dataset			Completeness	
Purpose of production Process description Type of dataset Dataset Language Additional information source for the dataset			History of the dataset	
Process description Type of dataset Dataset Language Additional information source for the dataset			Purpose of production	
Type of dataset Dataset Language Additional information source for the dataset			Process description	
Dataset Language Additional information source for the dataset			Type of dataset	
Additional information source for the dataset			Dataset Language	
			Additional information source for the dataset	

Figure 2. 2 Meta Data View page

To view individual information, select the **Indicator** and **Sub-indicator** from the dropdown. Select the **Sub-Sub-Indicator** if it is available in the dropdown.

2.2.1 Indicator Selection

To view the metadata:

- Select the Indicator
- Select Sub-Indicator
- Select Sub-Sub-Indicator

Indicator:	
Indicator	~
Sub-Indicator:	
Sub-Indicator	~
Sub-Sub-Indicator:	

Figure 2. 3 Indicator Selection

Indicator:	
Indicator	~
Sub-Indicator:	
Sub-Indicator	~
Sub-Sub-Indicator:	

Figure 2. 4 Selecting Sub-Indicator

Indicator	
fluicator.	
Indicator	~
Sub-Indicator:	
Sub-Indicator	~
Sub-Sub-Indicator:	
Field	~

Figure 2. 5 Selecting Sub-Sub-Indicator

2.2.2 View Metadata Details information

After section **2.2.1 Indicator Selection** is completed, metadata will be visible at the right panel.

Digital Risk Information Platform	HOME META DATA VIEWER INFO	MANTON VENEE + MORE +	d na nne
Indicator Selection	Meta-data Details Information		1
Indicator:	Indicator	Erosian	
Erosion 🗸	Component	Exposure	
Sub-Indicator:	Sub-Component	Combined Exposure	
Exposure 👻	Title	1000 Years	
Sub-Sub-Indicator:	Abstract	A spatial data layer of Exposure level for river bank erosion of Bangladesh, 2020 published by Asian Development bank (ADB).	
Combined Exposure 🗸	General	Not Available	
	Quality	Not Available	
	Completeness	The data covers different districts of Bangladesh	
	History of the dataset	Not Available	
	Purpose of production	Assessing disaster risk to ensure risk informed public investment	
	Process description	Data has been collected from the programming division, planning commission into shapefile format and converted as tabular format	
	Type of dataset	Spatial dataset	
	Dataset Language	English	
	Additional information source for the dataset	Not Available	
			J
	ଡି Copyright Government of Pe	ngdr's Republic Rongladezh. Al Rights Roserved Helgneet by CCOS	

Figure 2. 6 Meta Data Details information



Chapter Three: Information Viewer

3.1 Overview

Based on the Admin Boundary Selection in the **Map Filter** (Section-3.2.1.5 Map Filter), and on mouse over the map, a user will be able to view the map. If the mouse is hovered on a map, the boundary of the District or Upazila will be visible.

To see the overall information regarding that District/Upazila follow the following steps:

- Click on any boundary (Any District from the map).
- Click on any tab from details information to respective data.

yclone Drough	nt: Kharif	Drought: Pre Kharif	Earthquake	Erosion	Flash Flood	Flood	Landslide	Salinity Sea	Level Rise	Storm Surge
ombined										
	Disaster	Risk				DF	R Measures			
Indicator		Cyclone	Indicator		Components		Possible I	DRR Measures	Cost for DRI	R Measure
Division		Mymensingh	Cyclone		Access to nee	cessary utility	Emergen	cy lighting facilities		
District		Mymensingh	-,		facilities		Emergen	icy fuel supply		
Area Sqkm		4343.40					Elevated	seed bed		
Hazard Level		Low			Agricultural L	ands	Cyclone	resistant crop		
Exposure Level		Very High					harvestin	Ig		
Vulnerability Level		Medium			Availability of	Food and	Proper d	istribution of drinking		
Risk Level		Medium			Infraetructural uninacability		Establish consider Cyclone	ing infrastructures ing characteristics of on that area		
					Intrastructura	vunerability	Providing establish (houses,	g assistance in re- ing infrastructures roads etc.)		
							Elevated livestock	Elevated platforms for keeping livestock's safe		
					Livestock and	Fisheries	Barrier a	round fish ponds.		
							Reservoi system.	ir based fisheries		
					Medical Facil	ties	Emergen with free	icy medical facilities distribution of drugs.		
					Population		Establish cyclone s	ment of multipurpose shelters		

Figure 3. 1 Disaster Detail Information

ndicator	Cyclone	Indicator	Components	Possible DRR Measures	Cost for DRR Measure
ivision	Dhaka	Cyclone	Access to necessary utility	Emergency lighting facilities	
District	Dhaka	-,	facilities	Emergency fuel supply	
Area Sqkm	1477.63			Elevated seed bed	
Hazard Level	Medium Very High		Agricultural Lands	Cyclone resistant crop harvesting	
Vulnerability Level	Very Low		Availability of Food and Drinking Water	Proper distribution of drinking water and relief goods	
Risk Level	High			Establishing infrastructures considering characteristics of Cyclone on that area	
			Infrastructural vulnerability	Providing assistance in re- establishing infrastructures (houses, roads etc.)	
				Elevated platforms for keeping livestock's safe	
			Livestock and Fisheries	Barrier around fish ponds.	
				Reservoir based fisheries system.	
			Medical Facilities	Emergency medical facilities with free distribution of drugs.	
			Population	Establishment of multipurpose cyclone shelters	
			Profession	Capacity building among affected people for switching to alternate profession during post cyclone period.	
				Thicker covering around infrastructures	
			Salinity Intrusion	Apprropiate polder height and	

Figure 3. 2 Detail Information about Cyclone

clone		Drought: Pre Kharif	Earthquake	Erosion	Flash Flood	Flood	Landslide	Salinity	Sea Level	Rise	Storm Surge
	Disaster	Risk				DI	RR Measures				
Indicator		Drought: Kharif	Indicator		Components		Possible I	DRR Measures	Cos	t for DRR M	leasure
Division		Dhaka	Drought:	Kharif			Strength	ening field bun	ds to		
District		Dhaka	Drought				conserve	e more rain wat	ter		
Area Sqkn	n	1477.63					Adopting	drought- resis	tant		
Hazard Le	evel	Very Low					crops	Mater efficies			
Exposure	Level	Very High					irrigation	system	ll l		
/ulnerabil	lity Level	Very Low					Minimizir	o wastage of v	water		
Risk Level	1	Low			Agriculture		during cr	op production			
							Emergen for the fa	icy irrigation fa	cilities		
							Increase	of Wetland.			
							Enhance arranging Worksho Discussio	Enhanced public awareness by arranging Training Programs, Workshops, and Group Discussions at the root level			
					Availability of Drinking Wate	Food and er	Proper d water an	Proper distribution of drinking water and relief goods			
					Drought Affec	Drought Affected Area		Enhanced precaution over historically highest drought affected areas			
					Drought Dura	tion	Coordina Respons Recovery drought p	Coordinated Emergency Response and Rescue and Recovery during and post drought period			
							Drought	proofing to red	lice		

Figure 3. 3 Detail Information about Drought Kharif.



clone	Drought: Kharif		Earthquake	Erosion	Flash Flood	Flood	Landslide	Salinity	Sea Leve	l Rise	Storm Surge
	Disaster	Risk				D	RR Measure	s			
Indicator		Drought: Pre Kharif	Indicator		Components		Possib	le DRR Measures	Co	st for DRR	Measure
Division		Dhaka	Drought:	Pre Kharif			Streng	Strengthening field bunds to			
District		Dhaka	2.cug.iii				conse	rve more rain wa	ter		
Area Sqkn	n	1477.63					Adopt	ing drought- resis	stant		
Hazard Le	vel	Medium					crops				
Exposure	Level	Very High					Adopt	ing vvater-eπicien on system	It		
Vulnerabil	lity Level	Very Low					Minim	izing wastage of	water		
Risk Level		High			Agriculture		during	crop production			
						Emerg for the	ency irrigation fa farmers	cilities			
						Increa	se of Wetland.				
							Enhar arrang Works Discu	iced public aware ling Training Prog hops, and Group ssions at the root	eness by grams, level		
					Availability of Drinking Wate	Food and er	Prope water	r distribution of di and relief goods	rinking		
				Drought Affec	ted Area	Enhar histori affecte	Enhanced precaution over historically highest drought affected areas				
					Drought Dura	tion	Coord Respo Recov droug	Coordinated Emergency Response and Rescue and Recovery during and post drought period			
							Droug	ht proofing to red	luce		

Figure 3. 4 Detail Information about Drought Pre Kharif

clone	Drought: Kharif	Drought: Pre Kharif		Erosion	Flash Flood	Flood	Lands	lide	Salinity	Sea Lev	el Rise	Storm Surge
	Disaster	Risk				I	DRR Mea	asures				
Indicator		Earthquake	Indicator		Component	ts		Possible	DRR Measur	es	Cost for D	RR Measure
Division		Dhaka	Earthqua	ake				Establish	ning infrastru	ictures		
District		Dhaka	20.01900					consider	ing occurrer	nce of		
lrea Sqkn	n	1477.63			Infractout	ural vulnarab	ility	Earthqua	ake on that a	area.		
lazard Le	evel	Medium			mastructu		unty	Providing	j assistance	e in re-		
xposure	Level	Very High						cracked	infrastructur	es (houses,		
ulnerabil	Inerability Level Very Low Ik Level High							bridges,	roads etc.)			
lisk Level					Magnitude			Establishment of Earthquake				
								Magnitud	de Tracking	system		
								Coordina	ated Emerge	ency		
								Recover	y during and	i post		
					Population			disaster	period			
								Proper distribution of relief goods				
									Strengthened Early-warning systems			
						Time of occurrence		Dissemination of probable earthquake forecasting news at the root level over digital				

Figure 3. 5 Detail Information about Earthquake



/clone	Drought: Kharif	Drought: Pre Kharif	Earthquake	Erosion	Flash Flood	Flood	Landslide	Salinity	Sea Le	vel Rise	Storm Surge
	Disaster	Risk					DRR Measures	;			
Indicator		Erosion	Indicator		Components		Possible	e DRR Measure	s	Cost for DF	R Measure
Division		Dhaka									
District		Dhaka									
Area Sqkr	n	1477.63									
Hazard Le	evel	Medium									
Exposure	Level	Very High									
Vulnerabi	lity Level	Very Low									
Risk Leve	1	Medium									

Figure 3. 6 Detail Information about Erosion

clone	Drought: Kharif	Drought: Pre Kharif	Earthquake	Erosion		Flood	Landslic	le Salinity	Sea L	evel Rise	Storm Surge
	Disaster	Risk				D	RR Measu	es			
Indicator		Flash Flood	Indicator		Components		Possi	ble DRR Measures		Cost for DRF	R Measure
Division		Dhaka	Elash Elo	od	Access to nece	essary utility	Emer	gency lighting fac	ilities		
District		Dhaka	1.4611116	04	facilities		Emer	gency fuel supply			
Area Sqkr	n	1477.63					Early	harvesting of crop)S		
Hazard Le	evel	Very Low					Farm	ing crops of short d	maturing		
Vulnerahi	lity Level	Very Low					Eleva	ated seed bed			
Risk Level	1	Very Low			Agricultural La	nds	Float	ing Agriculture			
	-	,					Subn arour	nersible embankm nd agricultural field	ents Is.		
							Floor	f resistant crop ha	rvesting		
					Availability of F Water	Food and Dri	nking Prop water	Proper distribution of drinking water and relief goods			
							Estat Track syste	olishing Flash flood king and Propagati m	t ion		
					Flood Duration		Coor Resp Reco flood	Coordinated Emergency Response, Rescue and Recovery during and post flash flood period.			
							Estat consi flash	blishing infrastruct idering characteris flood on that area	ures tics of		
					Infrastructural vulnerability		Provi estat	ding assistance in blishing infrastructu	re- ires		

Figure 3. 7 Detail Information about Flash Flood

yclone	Drought: Kharif	Drought: Pre Kharif	Earthquake	Erosion	Flash Flood		andslide	Salinity	Sea Lev	vel Rise	Storm Surge
	Disaster	Risk				DRR	Measures				
Indicator		Flood	Indicator		Components		Possible I	ORR Measures	(Cost for DRR	Measure
Division		Dhaka	Flood		Access to neo	essary utility	Emergen	cy lighting faci	lities		
District		Dhaka			facilities		Emergen	cy fuel supply			
Area Sqkn	n	1477.63					Elevated	seed bed			
lazard Le	evel	Low			Agricultural La	nds	Floating A	Agriculture Met	hod		
xposure	Level	Very High					Flood res	istant crop har	vesting		
/ulnerabi	lity Level	Very Low			Availability of F	ood and Drinki	ng Proper di	stribution of dr	inking		
Risk Level	1	Medium			Water		water and	d relief goods			
							Enhance	d Flood Trackir	ng and		
					Flood Duration	1	Coordina Response Recovery period	ted Emergency e and Rescue during and po	/ and ost flood		
					Infrastructural	vulnerability	Establish considerii flood on t	ing infrastructu ng characterist hat area	ires lics of		
					madiactora	vanierability	Providing establishi (houses,	assistance in ng infrastructu roads etc.)	re- res		
					Inundated Are	a	Enhanced historicall areas	d flood protecti y highest inun	on over dated		
					Inundation De	pth	Plinth lev above his	el of the infrast storically highe	tructures st		

Figure 3. 8 Detail Information about Flood

clone	Drought: Kharif	Drought: Pre Kharif	Earthquake	Erosion	Flash Flood	Flood		Salinity	Sea Le	vel Rise	Storm Surge
	Disaster	Risk				D	RR Measures				
Indicator		Landslide	Indicator		Components		Possible	DRR Measures		Cost for DR	R Measure
Division		Dhaka	Landslide	9	Agricultural	ands	Choosir	ng less landslid	e		
District		Dhaka			Agricultural E	ando	suscept	ible lands for a	griculture		
Area Sqkr	n	1477.63			Availability of	Food and	Proper	distribution of d	rinking		
Hazard Le	evel	Very Low			Drinking wat	er	Water a	hing infrastruct			
Exposure	Level	Very High					conside	ring characteris	stics of		
Vulnerabi	lity Level	Very Low			Information and a second	t a contra a contra la 112	Landsli	tes on that area	a.		
Risk Leve	1	Medium			miastructura	ii vumerabili	Providir	ig assistance ir	n re-		
							establis (houses	hing infrastruct , roads etc.)	ures		
					Livestock and	d Fisheries	Choosin suscept	ig less landslid ible lands for liv	e vestock		
					Medical Facil	ities	Emerge with free during p	ency medical faire e distribution of post disaster pe	cilities drugs riods		
					Region of oc	currence	Precaut forecas of lands	ionary measure ted region for o lides	es in ccurance		
							Rehabil landslid	itating people o e vulnerable re	of the gion		
					Sanitation Fa	cilities	Establis	hing emergend on facilities	cy		
					Time of occu	rrence	Strengt and Lar	nened Early-wa Idslides forecas	arning sting		





Detail	I Information											×
Cyclone	Drought: Kharif	Drought: Pre Kharif	Earthquake	Erosion	Flash Flood	Flood	Landslide	Salinity	Sea Le	vel Rise	Storm Surge	
	Disaster	Risk					DRR Measures	5				
Indicator		Salinity	Indicator		Components		Possibl	e DRR Measure	es	Cost for DI	RR Measure	
Division		Dhaka										
District		Dhaka										
Area Sqki	m	1477.63										
Hazard Le	evel	Very Low										
Exposure	Level	Very High										
Vulnerabi	ility Level	Very Low										
Risk Leve	21	Low										
											Clo	se

Figure 3. 10 Detail Information about Salinity

Detail	Information											×
Cyclone	Drought: Kharif	Drought: Pre Kharif	Earthquake	Erosion	Flash Flood	Flood	Landslide	Salinity	Sea Le	evel Rise	Storm Surge	
	Disaster	Risk					DRR Measures	6				
Indicator		Sea Level Rise	Indicator		Components		Possibl	e DRR Measure	es	Cost for DF	R Measure	
Division		Dhaka										
District		Dhaka										
Area Sqkr	n	1477.63										
Hazard Le	evel	Very Low										
Exposure	Level	Very High										
Vulnerabi	ility Level	Very Low										
Risk Leve	1	Low										
											Clo	se

Figure 3. 11 Detail Information about Sea Level Rise

yclone	Drought: Kharif	Drought: Pre Kharif	Earthquake	Erosion	Flash Flood	Flood	andslide.	Salinity	Sea Level Ris	se Storm Surge
	Disaster	Risk				DRR	Measures			
Indicator		Storm Surge	Indicator		Components		Possible I	DRR Measures	Cost for	DRR Measure
Division		Dhaka	Storm Su	irde	Access to neo	essary utility	Emergen	icy lighting faciliti	ies	
District		Dhaka			facilities		Emergen	icy fuel supply		
Area Sqkn	n	1477.63					Elevated	seed bed		
Hazard Le	evel	Very Low			Agricultural La	inds	Storm su	rge resistant cro	p	
Exposure	Level	Very High					harvestin	Ig		
Vulnerabi	lity Level	Very Low			Availability of I	Food and Drinki	g Proper di	istribution of drin	king	
Risk Level	1	Low			vvalei		Ectablich	u relier goous	20	
							consideri	ing characteristic	is of	
							Storm su	irge on that area.		
					Infrastructural vulnerability		Rehabilit	ating polders on		
							coastal a	coastal area.		
							Providing	establishing infrastructures		
							(houses,	roads etc.)		
							Elevated	platforms for kee	eping	
							livestock'	's safe		
					Livestock and	Fisheries	Barrier a	round fish ponds	a	
							Reservoi	r based fisheries	•	
							Emergen	cy medical facilit	ties	
					Medical Facilit	lies	with free	distribution of dr	ugs.	
					Profession		Capacity affected	building among	ing to	
					11010331011		affected people for switching to		ing to	

Figure 3. 12 Detail Information about Storm Surge

\bigcirc		nformatio	n Platform		HOME META	DATA VIEWER	INFORMATION	newer +	REPORT VIEWS	er - Mor	E ~ ≜ + R	egister 🛔 Login			C Normal Reference Programme
+	Label 🗆	🔳 Detai	I Information										×	4	
- Noter	Landingue	Cyclone	Drought: Kharif	Drought: Pre Kharif	Earthquake	Erosion	Flash Flood	Flood	Landslide	Salinity	Sea Level Rise	Storm Surge	9	D D	
	Hanna Statur	Combine	đ										100		
Margurt	Berthe	District		Mymensingh]	krea		4343.4	0				
argent	Kanpur	Indicator		Hazard Level		Exposure Level		Vuin	erability Level		Risk Level				
and the		Cyclone		Low (2)		Very High (5)		Med	ium (3)		Medium (3)				
1	Carlin Selection	Drought: K	harif	Low (2)		High (4)		Low	(2)		Medium (3)		- 100		RITH
	Banda At	Earthquake	e Khanz	LOW (2) High (4)		Very High (5)		Verv	(2) High (5)		Very High (5)		- 685		
hand S. 6		Erosion		Medium (3)		Very High (5)		Med	ium (3)		High (4)		1000		
Sec. Sec.		Flash Floor	d	Low (2)		Very High (5)		Med	ium (3)		Medium (3)			42	1
and the		Flood		Medium (3)		Very High (5)		High	(4)		High (4)		100		a sub-
1. 5		Landslide		Very Low (1)		Very High (5)		High	(4)		Medium (3)			Divis	sion Legend
Name I		Salinity		Very Low (1)		Very High (5)		Med	ium (3)		Medium (3)				
1 have		Sea Level	Rise	Very Low (1)		Very High (5)		Med	ium (3)		Low (2)		141		Barishal
Sugar Du		Storm Surg	3e	Very Low (1)		Very High (5)		Med	ium (3)		Medium (3)		0.020		
and the		-											2		Chattogram
												Clos	se		Dhaka
T		12 12	Northe	alles and the	Iheapul	Kolka	ta - burne i	-	D.A.	18	12 million	130	-17 Tops		Khulna
Chestana		Bissour		COURSES								1			Mymensingh
and the			Rather									- Ale			Rajshahi
Nagpur	Blundale	Ragur			Brastian							*epit	agan C		Rangpur
wine 3				Currac									1 P	-	Sylhet
Ser Ser				And and a state of the state of								uergi			

Figure 3. 13 Detail Information Combined

DRIP includes Map Viewer section

- Disaster Risk Map
- Climate Projection Map

Disaster Risk Map displays the possible risk on disasters like Cyclone, Drought: Kharif, Drought: Pre Kharif, Earthquake, Erosion, Flash Flood, Landslide, Salinity, Sea Level Rise, Storm Surge.

3.2 Disaster Risk Map

To view the disaster risk information in the form of a map:

- Go to the Information Viewer tab
- Click the Disaster Risk Map tab



Figure 3. 14 Information Viewer.





Figure 3. 15 Disaster Risk Map

Here on the top right (Figure-3.15), a **map customization panel** is available. To set the different functionality of the map viewer use the **map customization panel** (Figure-3.16).

3.2.1 Map Customization Panel

The picture below (Figure-3.16) is the main customization panel of the Disaster Risk Map. Each icon is assigned to specific functionality in the map section.



Figure 3. 16 Map Customization Panel

3.2.1.1 Map Download

Figure 3. 17 Map Download

Click the **Map Download** (Figure-3.17) to download the map as a .png file like figure-3.18.





Figure 3. 18 Downloaded map in the png format.

3.2.1.2 Map Reset



Figure 3. 19 Reset the map

Click on the **Reset** icon to reset the map to its original state (Figure-3.19).



Figure 3. 20 Full Extending the map icon

Click on the marked icon for extending the map to its full extend.

Click on the **Extend Map icon** (Figure-3.20) to extend the map to the full screen. Later the whole map will be fully extended.



Figure 3. 21 Map Background Layer



Click on the map background layer to change its background (Figure-3.21).

There are several map backgrounds

- Open street
- Google Hybrid
- Google Satellite
- Google Street
- Google Terrain
- ESRI
- None

Choose a background from any of the above.



Figure 3. 22 Open Street Map



Figure 3. 23 Google Hybrid background





Figure 3. 24 Google Satellite background



Figure 3. 25 Google Street Background



Figure 3. 26 Google Terrain Background



3.2.1.5 Map Filter



Figure 3. 29 Map filter

This is the main customization option for the map viewer section.

To filter out data from the map follow the steps mentioned below:

- Click on the filter the map icon.
- Select boundary and indicator information

In the Disaster Risk Map, a tab will be visible like the picture below (Figure-3.30).

3.2.1.5.1 Map Settings



Map Settings		×
Administrative Boundaries	Indicators for Disaster Risk Map	
Selected Boundary	Selected Indicator:	
●District ○Upazila	Indicator	~
Selected District	OHazard	
all district 🗸	OReturn Period	
■ Others Map Layers ■ Major Rivers □Rural Market □ Railway	○Exposure ○Vulnerability ○Risk	
Road Map Layers	Selected Sub-Component:	
□National Road □Regional Road □District Road □ Upazila Road	Field	~
Clos	se	

Figure 3. 30 Map Settings

To visualize the proper layers in the map the following criteria must be fulfilled.

Here two settings can be set with two different sections

3.2.1.5.2 Fixing Boundary and Indicator

To view the disaster map for a particular district we have to:

- 1 Select proper boundary
- 2 Select proper indicator

In the Map Settings, we have to configure both the boundary and Indicator for displaying the map.

There are several indicators available there are:

- Cyclone
- Drought: Kharif
- Drought: Pre Kharif
- Earthquake
- Erosion
- Flash Flood
- Landslide
- Salinity
- Sea Level Rise
- Storm Surge

Selecting Boundary

To select the district map:

- Select the boundary as **District**.
- Select the desired district from the dropdown.
- Select other map layers or roads if necessary.

Follow the steps mentioned below to select the Upazila map



- Select the boundary as Upazila.
- Select the desired district from the district dropdown.
- Select the desired Upazila from the Upazila dropdown.
- Select other map layers or roads if necessary.

Administrative Boundaries	
Selected Boundary	
●District ○Upazila	
Selected District	
all district	~
Others Map Layers	
Major Rivers 🗆 Rural Market 🗆 Railwa	у
Road Map Layers	
□National Road □Regional Road □Dist Upazila Road	rict Road 🗆

Figure 3. 31 Setting District boundary information

Administrative Boundaries	
Selected Boundary ○District ◉Upazila	
Selected District	
all district	~
Selected Upazila	
all upazila	~

Figure 3. 32 Setting Upazila boundary information

Others Map Layers

Major Rivers Rural Market Railway

Figure 3. 33 Other Map Layers



Indicators for Disaster Risk Map	
Selected Indicator:	
Indicator	~
⊖Hazard	
○Return Period	
○Exposure	
○ Vulnerability	
○Risk	
Selected Sub-Component:	
Field	~

Figure 3. 34 Indicator for Disaster Risk Map

For selecting the Indicators:

- Select an Indicator.
- Select assosiated hazard/ return period/ exposure/ vulnerability/ risk.
- Select Sub-Component.
- Click the **close** or **X** icon at the top right corner.



Figure 3. 35 Disaster Risk map based on district





Figure 3. 36 Disaster Risk map based on Upazila

3.3 Climate Projection Map

3.3.1 Overview

The climate projection map gives a projection based on the climate considering several factors.

To go to the climate projection map:

- Hover the mouse on the Information Viewer.
- Click on the **Climate Projection Map** from the dropdown.

In the figure climate projection map, A map customization panel would be available on the top right side. To learn more functionality about each icon please take a look at **section 3.2.1 Map Customization Panel**. To know more about the map filter functionality read **section 3.3.2**.



Figure 3. 37 Climate projection map

3.3.2 Map Filtering in Climate Projection

After clicking the filter map icon below a new window will pop up like Figure-3.38.



Administrative Boundaries:	Climate Change Projection Map	
Select Boundary	Select Factor:	
●District 〇Upazila	Factor	~
Select District	Select Type:	
district 🗸	Туре	~
	Select Season:	
Others Map Layers	Season	~
■Major Rivers □Rural Market □Railway	Select RCP:	
Road Map Layers	RCP	~
🗆 National Road 🗆 Regional Road 🗆 District Road 🗆 Upazila Road	Select Year:	
	Year	~

Figure 3. 38 Map Settings of the Climate Projection Map

To get the desired map output:

- Select the boundary.
- Select District or District along with Upazila.
- Select map layers if necessary.
- Select Factor.
- Select Type.
- Select Season.
- Select RCP.
- Select Year.
- Click X icon or click the **close** button to eliminate the popup tab.

Climate Change Projection Map	
Select Factor:	
Temperature	~
Select Type:	
type	~
Select Season:	
	~
Select RCP:	
	~
Select Year:	
	~

Figure 3. 39 Climate Change Projection Map setting (right panel)

Here from the dropdown after configuring proper **Climate Change Projection Settings**. Some options in the dropdown might only be visible for certain combinations of selection.

Close the map settings by clicking the **X** icon on the top-right or click the **close** button. After all the configurations, if all the settings are configured properly a window like below will be visible (**Figure-3.40**).





Figure 3. 40 Climate Change Map (Chittagong District, Factor-temperature, RCP-8.5, 2041-50)



Chapter Four: Report Viewer

4.1 Overview

To create an opportunity for the user to generate and download the report based on district or Upazila DRIP system has a feature called Development and Appraisal Tool.

4.2 Development and Appraisal tool

Drip System consists of several Advanced tools. One of them is **Development and Appraisal tool**. It generates the report dynamically based on the user's inputs. Only the authorized users can view the **Development and Appraisal Tool**.

To view **Development and Appraisal tool** the user must be logged in and he should also have the proper authorization. While the user generates the report the system will generate a log automatically with time, username, email along IP address.

To learn more please contact DRIP Admin.

To go to Development and Appraisal tool page:

- Hover on the **Report Viewer.**
- Click on the **Development and Appraisal Tool** button.

Digital Risk Information Platform		Resilience Programme
Home About Metadata Viewer Information Viewer Report	Viewer∀ Glossary More♥	🏖 Register 💄 Login
	Figure 4. 1 Report Viewer Tab	
Digital Risk Information Platform		Resilience Programme
Home About Metadata Viewer Information Viewer♥ Repor	Generate Disaster Risk Report	e admin v
Project Location	Project Information	Hazard Information
Select Boundary	Project Name	Select Report Version
District O Upazila	Project Name	Benglish ০ বাংলা Alignment Content Content
Select District	Sector	Select Hazard
district 🗸	Sector	Nothing selected
		Generate Report
	© Convident Covernment of Beople's Benublic Bendadesh. All Distric Deserved	
	Copyright dovernment of reaging a kepublic bangadesh. All kights keserved Designed by CEGIS	

Figure 4. 2 Disaster Risk Report Generator.



The report generating page consists of three sections.

- Project Location
- Project Information
- Hazard Information

4.2.1 Project Location

For District boundary:

- Select the boundary as **District**.
- The select district from the dropdown.

For Upazila:

- Select the boundary as Upazila.
- Select district from the dropdown.
- Select Upazila from the dropdown.

Project Location	
Select Boundary	
● District ○ Upazila	
Select District	
district	~

Figure 4. 3 Project Location (Boundary District)

Project Location	
Select Boundary	
○ District	
Select District	
district	~
Select Upazila	
upazila	~

Figure 4. 4 Project Location (Boundary Upazila)



Project Name		
Project Name		
Sector		
Sector		
Description		

Figure 4. 5 Project Information

4.2.2 Project Information

Give the project vital information like **Project Name**, **Sector**, **Description**. It is mandatory to give the **Project Name** otherwise a window like figure-4.6 will be visible.

Project Inf	ormation							
Project Name	Project Name							
Project Nan	ne							
Sector	O Emer							
Sector	Error!							
Description	8 Please Enter Project Name							
	ОК							

Figure 4. 6 Warning for not giving Project Information



Figure 4. 7 Hazard Information

4.2.3 Hazard Information

To generate the report properly, it's mandatory to select at least one of the Hazards.

- Click on the **select menu** to select a hazard.
- Select one or more hazards.



• Click outside the dropdown area to close the dropdown.

In the case without selecting the appropriate option, if **Generate Report** button is pressed, a pop-up window like (Figure-4.8) will be displayed.



Figure 4. 8 Warning failure message to generate a report

Cyclone	∠
Drought: Kharif	
Drought: Pre Kharif	
Earthquake	∠
Erosion	

Figure 4. 9 Selecting Hazard from the dropdown

4.2.4 Generate Report

After configuring project location, project information, hazard information

Click on the Generate Report button.

Meanwhile, a section will be rendered like below (Figure-4.10).

		Save or Print		
Disaster Risk Information for	Disaster Risk Information for Project Development/DIA Appraisal			
This report summaries the disaster risk information generated from the D appraisal process.	This report summaries the disaster risk information generated from the Disaster Risk Information Platform(DRIP) for supporting the project development / DIA appraisal process.			
Any information provided by this report will give planners / project develo on available published literatures or research papers from different authe	vny information provided by this report will give planners / project developers / evaluators to get an overarching idea on disaster or climate change risk based on available published literatures or research papers from different authentic sources.			
To learn more about the definition of different terminologies used in this report, please visit: Glossary				
Project Location	Project Location			
Division	Division Khulna			
District	Bagerhat			
Project Information	roject Information			
Project Name		p1		
Sector		s1		
Description				

Figure 4. 10 Generated report

On the right-top side of the page, there is a link called Save or Print,

Click on the link to print or save the report in pdf format.



I BAE	Print ?
	Drinter
This rep	Save as PDE
Any info	54VE 85 F 67
To learn	Pages
TO learn	
Project	e.g. 1-5. 8. 11-13
Divisic	Fewer settings ~
Distric	Pages per sheet
e sure	 1 V
Project	
Projec	Margins
Trojec	Default 🗸
Sector	Options
Descri	Headers and footers
The ma	Background graphics
ine ine,	Troubleshoot printer issues
+	
2239	
	Save Cancel

Figure 4. 11 Downloaded report (Top section)

Click on **Save** button and keep the **background graphics** checked from the settings options.

In the report section by clicking the **Report Menu** the user can also download data and images into different formats like **csv**, **xls**, **png**, **jpeg**, **pdf**, **svg**.

1 of 9 Q		- + 🤉 🗉	IB Page view A [№]	Read aloud	\forall Draw \sim	🗑 Highlight 🗸	& Erase	08	₽ 🖈
	Disaster Risk Information f	or Project Development	/DIA Appraisal						
	This report summaries the disaster risk information generated from the Disaster Risk Information Platform(DRIP) for supporting the project development / DIA appraisal process.								
	Any information provided by this report will give planners / project developers / evaluators to get an overarching idea on disaster or climate change risk based on available published literatures or research papers from different authentic sources.								
	To learn more about the definition of different terminolog	ies used in this report, please visit: Glossary							
	Project Location								
	Division	Chattogram							
	District	Bandarban							
	Project Information								
	Project Name		p1						
	Sector		s1						
	Description								
	The map below shows the selected project area:								
		Bandarban		N					

Figure 4. 12 View Downloaded report in pdf format.

The user can download data and images into different formats like **csv**, **xls**, **png**, **jpeg**, **pdf**, **svg** by clicking the **Report Menu**.





Figure 4. 13 Report Menu

A	1	• : :	×	<i>f</i> _∞ Cat	egory
	А	В	С	D	E
1	Category	Series 1			
2	Road	2			
3	Railway	2			
4	Settlemer	1			
5	Populatio	1			
6	Rural Mar	5			
7	Forest	5			
8	Crop: Pota	1			
9	Crop: Mai	1			
10	Crop: Jute	1			
11	Crop: Bord	1			
12	Crop: Aus	1			
13	Crop: Whe	1			
14	Crop: Ama	1			
15					

Figure 4. 14 Downloaded CSV file data

Chapter Five: Miscellaneous

5.1 Overview

In this section, Miscellaneous links will be discussed

- Glossary
- Relevant Important Documents
- Feedback
- About DRIP

5.2 Glossary

To view particular glossary information, follow the steps mentioned below:

- Click on the Glossary menu from the navigation bar.
- Click on the definition term to view the detailed information.

On the Glossary page, there are two panels left and right. The left panel consists of a **search bar** and a list of **all definitions**.

The user can also view the all-other definitions if he/she scrolls through the right panel.

Digital Risk Information Platform			National Resilience Programme
Home About Metadata Viewer Inform	nation Viewer • Report Viewer •	Glossary• Data Download• More•	😝 admin 🗸
Definitions Search Keyword	Details Information		
Adaptive Capacity	Adaptive Capaci	ty	Î
Disaster	The ability of systems, insti consequences.	utions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or	r to respond to
Franciura	Source:	IPCC	
Hazard	Link:	https://www.ipcc.ch/report/sr15/glossary	
RCPs ~	Nicactor		•



Figure 5. 1 Glossary page



Digital Risk Information Platform			National Resilience Programme
Home About Metadata Viewer Informa	ation Viewer Viewe	r∗ Giossary∗ Data Download∗ More×	😫 admin 🗸
Definitions	Details Information		
Search Keyword	Exposure		-
Adaptive Capacity	The situation of people,	infrastructure, housing, production capacities and other tangible human assets located in hazard-prone areas.	
Disaster	Source:	UNDRR	
Disaster Risk Reduction	Link:	https://www.undrr.org/terminology/exposure	
Exposure			
Hazard	Hazard		
RCPs	A process, phenomeno environmental degrada	n or human activity that may cause loss of life, injury or other health impacts, property damage, social and economic disruption ion.	or •
		© Copyright Government of People's Republic Bangladesh. All Rights Reserved	

Figure 5. 2 A specific Definition Information

To search for a definition:

- Write the definition in the **search bar**.
- Hit Enter.

If the definition is available then it will be visible at the **left panel** otherwise there will be no definition at the left panel (Figure-5.3).

Digital Risk Information Platform					National Resilience Programme
Home About Metadata Viewer Inform	nation Viewer¥ Report Viewer¥	Glossary	MoreΥ		😝 admin 🛩
Definitions	Details Information				
bangladesh	Exposure				*
	The situation of people, infras	tructure, housing, production ca	pacities and other tangible humar	n assets located in hazard-prone areas.	
	Source:	UNDRR			
	Link:	https://www.undrr.org/termir	nology/exposure		
	Hazard				
	A process, phenomenon or h environmental degradation.	uman activity that may cause lo	ss of life, injury or other health ir	mpacts, property damage, social and economic disrupt	on or
	© Cop	yright Government of People's Rep	ublic Bangladesh. All Rights Reserved		
		Designed by	y CEGIS		

Figure 5. 3 Definition not found (Empty left panel)

5.3 Relevant Important Documents

To go to Relevant Important Documents:

- Hover/Click the mouse on the More tab.
- Click on the **Relevant Important Documents.**





Figure 5. 4 Relevant Important Documents

The Relevant Important Documents has two panels, left and right (Figure-5.4).

To view a particular document,

Click on any title from the **left panel** on any of the links and the expected report will be visible on the **right side** (Figure-5.5).

To search, write the full or partial **title** of the document in the **search box**. If it's available in the system, then only the title can be seen on the **left side**.

Click the found title to see the expected document on the right panel (Figure-5.5).



Figure 5. 5 Searching relevant Documents from the system.



5.4 Feedback

It's possible to submit feedback to the System Authority using the Feedback form.

To go the feedback:

- Hover/Click the mouse in the Navigation Bar on the More tab.
- Click Feedback.

Digital Risk Information Platform		Resilience Programme
Home About Metadata Viewer Information Viewer* Report Viewer* Glossary* Data Down	sload~ More~	😝 admin 🛩
Fee	dback	
0	(19)	
Our Address Sher-e-Bangia Nagar, Dhaka-1207, Bangladesh.	Email Us Call Us secretary@plandiv.gov.bd +9180700	
) পরিকছনা মন্ত্রণানস্য Planng Commission RG তেলা 1207 বিচনির্বেদ ৪.৪ কনা ১৯ বের্টা পার্বসেয়ার	Your Name Your Email	
বৃষ্ঠের মানা বেশুন ববাংলা হবি বিন্যায় মনজি বিজ্ঞান বন্যায়েয়	Subject Message	
toria) Banipo Malo Q Restrictión Q B restrictión Q restrictión Q Numero Seren Q Henriction Q He	Send Message	
		٥

Figure 5. 6 Feedback Form

Give the following information

- Your Name
- Your Email
- Subject
- Message

In a case without providing the above vital information if the **Send Message** button is pressed then the user will get errors on the client-side (Figure-5.7).

Feed	back		
Our Address Shere-Bangto Hauger, Dhaka 1207, Bangtadezh.	Email Us secretary@plandlv.gov.bd	Call Us +9180700	
I videoper sprover menung consensation at the train of the service of the service of the service of the service of the service of the service of the service of the serv	Your Name The Luer Name field is required. The Subject The Luer Name field is required. The Message The Feedback field is required. Subject	four final e final find in regures.	

Figure 5. 7 Client-Side Validation in the feedback form



If the feedback is submitted successfully. The following message will appear as the pop-up message (Figure-5.8).



Figure 5. 8 Display successful message on feedback submission

5.5 About DRIP

The **About page** of DRIP contains all the necessary information about the Digital Risk Information Platform.





Chapter Six: Log in and Registration

6.1 Overview

The common pages are accessible to all users ignoring the fact whether they are logged in or not. To view the restricted page the login is a must for the user. Before login, the user must register in **DRIP**.

6.2 Register

To register in DRIP:

- Click on the **Register** link.
- Enter the email.
- Give username.
- Give the phone number.
- Enter password.
- Confirm the password again.
- Click Register.

In case if the user submits the request without filling the required field, he would get the validation error on the **client-side** (Figure-6.2).

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Home About Metadata Viewer Information	Viewer≁ Glossary More≁	🛓 Register 💄 Login
	User Registration	
	Email	
	User Name	
	Phone Number	
	Password	
	Confirm password	
	Back Register	
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Figure 6. 1 Register Page



• 1116	Email field is required.
• The	PhoneNumber field is required.
• The	Password field is required.
Email	
The Ema	I field is required.
User Nar	ne
The User	Name field is required.
Phone N	umber
The Pho	eNumber field is required.
Passwor	t l
The Pass	word field is required.
	password
Confirm	

Figure 6. 2 Client-side validation

After submitting a request, the following pop window will appear on the current page click **OK** to close the pop-up window (Figure-6.3).



Figure 6. 3 Success message on User registration

After getting the above message check the inbox and click the email confirmation link sent to the user's email address (Figure-6.4).



Figure 6. 4 Email Confirmation Link

Click on the Login button in figure-6.5 for redirecting to the login page.





Figure 6. 5 Congratulation message for the email confirmation

6.3 Login

Digital Risk Information Platform	National Resilience Programme
Home About Metadata Viewer Information Viewer* Report Viewer* Glossary More*	🏖 Register 💄 Login
User Log in	
LUsername	
Enter Username A Password	
P Enter Password 🎕	
C Remember me?	
Forgot your password ?	
Don't have a User Id? Register as a new user	
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Figure 6. 6 Login Page

In case if the user has not confirmed his/her email but tries to log in, an error will be visible like figure-6.7.



Figure 6. 7 Invalid Login Attempt due to the unconfirmed email address

To login into the system:

- Enter the username
- Give the password
- Click the **login** button.



If **the credentials** are **correct** then the user will automatically be logged in and would see the change in **navigation bar section** (Figure-6.8).

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Figure 6. 8 Logged in User

6.4 Forgot Password

If a user forgot his/her password, to reset the password,

- Click on the Forgot Your Password link.
- Write the email address.
- Click submit.

After successful submission, the user will get a successful confirmation message of email submission (Figure 6.10).

Reset Password
Write your email address, which was used to register in Digital Risk Information Platform. An email will be sent to your email with password reset link. Click the link to reset the password.
Email
Submit
Figure 6. 9 Reset Password via email
Reset link has been sent successfully
Reset Password
Write your email address, which was used to register in Digital Risk Information Platform. An email will be sent to your email with password reset link. Click the link to reset the password.
Email
Submit

Figure 6. 10 Success message on successful sent of a reset link





Click on the reset link (sent to your email) and a page will look like below (Figure 6.12).

- Enter the **new password**
- Confirm the password again
- Click **submit** button.

Enter a new Password
Enter a password by which you can login in Digital Risk Information Platform
New Password
Confirm Password
Submit

Figure 6. 12 Reset password

After a successful password reset the confirmation message will appear like below.



Figure 6. 13 Password reset confirmation



Chapter Seven: Authorized Options

7.1 Overview:

Based on logged in user role, users can see different menus and submenus in their profile dropdown. This dropdown will be visible at the top right of the menu bar.



Figure 7. 1 User menu in the Navigation bar (for Common User)

7.2 Common User

Usually, all logged users can see three options. In their user profile dropdown. Based on their role more options will be displayed here (for Admin).

- User Profile
- Change Password
- Logout

7.2.1 User Profile

If a user clicks on the **User Profile** link the following page will be displayed.

User Profile				
Username	admin			
Email	gixen69356@hrandod.com			
Contact	12345678			
Edit Profile				



Figure 7. 2 User Profile



7.2.2 Change Password

- To change the current password,
- Click on the **Change Password** link
- Enter the current password
- Give the new password
- Click submit.

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Home About Metadata Viewer	Information Viewer • Glossary More •	e abrar 🗸
	Enter a new Password	
	Current password	
	New password	
	Confirm password	
	Submit	
	Figure 7. 3 Change Password Page	

Figure 7. 4 Successful password change confirmation message

Successfully changed the password

All the rest of the functionality for a logged-in user would be the same as unauthenticated user options.

There are four types of common roles are available in the DRIP system

- 1) Planner
- 2) DPP Appraisal
- 3) DPP Creator
- 4) Authenticated User

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ation Platform

An authenticated user is not assigned to any special role in DRIP system but he/she would have option to, log into the system, view the profile information, change password and logging out. DRIP system also allows him/her to perform normal actions as a common user.

7.3 Planner

The planner has access to all the common functionality of the DRIP platform. With special privilege, they can also download and generate a disaster report (For detailed information, visit section 4.2 **Development and Appraisal Tool**).



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7.4 DPP Appraisal & DPP Creator

DPP appraisal and DPP Creator have extra features other than a planner, one of them is the data download option. By using the Data Download option user can download two types of data. District Indicator data and Upazila Indicator data.

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	hat 3655.9	2 5	1	2	2	1	1	5	5	1	1	1	1
Cyclone Bandar	rban 4595.4	4	1	1	1	1	1	5	5	1	1	1	1
Cyclone Bargur	na 1344.6	5	2	3	1	2	1	4	3	1	1	1	1
Cyclone Barisha	al 2218.3	5	3	5	1	2	2	4	1	1	1	2	2
Cyclone Bhola	1947.2	1 5	2	3	1	2	1	4	3	1	1	1	2
Cyclone Bogura	a 2910.5	2 2	5	5	4	3	3	4	1	4	2	3	5
Cyclone Brahm	anbaria 1921.04	1 3	4	4	4	3	3	3	1	1	1	2	4
Cyclone Chand	lpur 1468.4	4	4	5	4	3	3	3	1	2	1	2	3
Cyclone Chatto	gram 4452.0	2 5	4	4	4	3	3	2	5	1	1	1	1
Cyclone Chuada	langa 1163.10	3	3	5	5	2	2	4	1	1	5	4	3

Figure 7. 5 District Indicator Data

Home A	About I	4etadata View	ver In	oformation	Viewer	Report Viewer > Data Download >			Glossary	Moreγ			9 dpp_appraisal 🗸		
Jpazila Indicators Information Export To Excel						Development and Appraisal Tool					Upazila		Q Search		
Indicator	District	Upazila	Area Sqkm	Hazard Level	Exposure Level	Exposure of Road	Exposure of Railway	Exposure of Settlement	Exposure of Population	Exposure of Rural Market	Exposure of Forest	Exposure of Potato	Exposure of Maize	Exposu of Jut	
Cyclone E	Bagerhat	Bagerhat Sadar	3655.92	5	1	2	2	1	1	5	5	1	1	1	
Cyclone E	Bagerhat	Chitalmari	3655.92	5	1	2	2	1	1	5	5	1	1	1	
Cyclone E	Bagerhat	Fakirhat	3655.92	5	1	2	2	1	1	5	5	1	1	1	
Cyclone E	Bagerhat	Kachua	3655.92	5	1	2	2	1	1	5	5	1	1	1	
Cyclone E	Bagerhat	Mollahat	3655.92	5	1	2	2	1	1	5	5	1	1	1	
Cyclone E	Bagerhat	Mongla	3655.92	5	1	2	2	1	1	5	5	1	1	1	
Cyclone E	Bagerhat	Morrelganj	3655.92	5	1	2	2	1	1	5	5	1	1	1	
Cyclone E	Bagerhat	Rampal	3655.92	5	1	2	2	1	1	5	5	1	1	1	
Cyclone E	Bagerhat	Sarankhola	3655.92	5	1	2	2	1	1	5	5	1	1	1	
Cyclone E	Bandarban	Alikadam	4595.41	4	1	1	1	1	1	5	5	1	1	1	
														E.	

Figure 7. 6 Upazila Indicator Data

The user can download district or Upazila data in form of .xlsx format by clicking **export to excel** link. It's also possible to search district or Upazila data by district/Upazila name respectively.

