

Background

One of the goals of The *National Action Plan on Climate Change and Human Health* is the reduction in health vulnerability to climate variability and extreme weathers. To achieve this goal, some of its aims include a. strengthening the healthcare system in context of climate change, b. building capacity of healthcare system for vulnerability assessment, and c. strengthen health preparedness and response by performing situational analysis at all scales. While the Guidelines on Green and Climate Resilient Healthcare Facilities, published in 2016 focus extensively on greening of healthcare facilities, a healthcare facility climate resilience checklist has been designed and proposed to complement the existing guideline. The checklist can act as a self-assessment tool to evaluate whether or not a healthcare facility may be at risk from current and future climate extremes based on its geographic location and inherent coping capacity. The checklist is designed to be scalable, meant to be used by administrative or healthcare officials in any healthcare facility across India.

Please note: All star-marked sections are compulsory. Sections D3.1 and D3.2 are meant for healthcare facilities located in hilly regions or coastal regions respectively.

	Part A1: Facility Identification*										
State Name	District Name	Block Name	Code	Latitude	Longitude	Full Address					
Type of	Facility (Tick)	Ownership	Mention if other	Any other details							
SC		Public									
РНС		Private									
СНС		Other									
Dant D. I	Descendent Details										

Name of Respondant Designation Date Hospital Phone no. Email ID Image: Comparison of the second										
	Name of Respondant	Designation	Date	Phone no.	Hospital Phone no.	Email ID				

Part D: Climate Resilient Healthcare Facility Standards

Part D1: Identification of Risk Factors*

Part D1.1: Geographic Location & Hazard Occurence*

S.No	Questions	Response Codes	Response	Score	Assessment Method	Method of Verification	Remarks
		Below Mean Sea Level (low-lying plains)		0			
	At what altitude is your healthcare facility located?	0-1000 ft Above Mean Sea Level		1			
D1.1.1	(If your score for this question is 2,3 or 4 please ensure	1000-5000 ft Above Mean Sea Level		2			
	to fill additional section D3.1)	5000-10000 ft Above Mean Sea Level		3			
		Above 10000 ft		4			
		20+ Km		0			
	How far is your healthcare facility from the coastline? (If your score to this question is 2,3 or 4 please ensure to fill additional section D3.2)	10-20 Km		1			
D1.1.2		5-10 Km		2			
		1-5 Km		3			
		0-1 Km		4			
		Never		0			
	Development of the second s	0-1 times per year		1			
D1.1.3	Does the healthcare facility or its surrounding areas experience flooding or inundation due to rainfall?	1-2 times per year		2			
		2-3 times per year		3			
		More than 3 times per year		4			

		Does not observe inundation	0		
	In case of a flood/flash flood or heavy rainfall, for how	Less than 24 hours	1		
D1.1	4 many hours does the hospital premise or its	Between 24 to 48 hours	2		
	surroundings stay inundated?	Between 48 to 72 hours	3		
		More than 72 hours	4		
		4+ Km	0		
	Lieu, fan is tha haalthaans faailite, furus a weten had.	3-4Km	1		
D1.1	such as a river channel lake canal or estuary?	2-3Km	2		
	such as a river, channel, lake, canar or estadiy.	1-2Km	3		
		0-1Km	4		
		Never	0		
	In the last five years how many times has a flood/cyclone/landslide affected service delivery in the healthcare facility? For eg. delayed surgical procedures, damaged medical equipment, etc	Once	1		
D1.1		Twice	2		
		More than twice	3		
		More than thrice	4		
		Very low damage: Fine cracks in plaster; fall of small pieces of plaster (about 10% of wall area)	0		
		Low damage: Fall of fairly large pieces of plaster (say upto 50% of wall area); small cracks in walls (less that 6mm wide)	1		
D1.1	7 Which of the following levels of damage best describe	Moderate damage: Large and deep cracks in walls; loss of belongings; damage of electrical fittings.	2		
	the impact of past disasters of the field fille facility:	High damage: Large and deep cracks in walls; loss of belongings; damage of electrical fittings.	3		
		Very High Damage: Including collapse of buildings; floating away of sheets, thatch, etc.; scouring of foundations, severe damage of lifeline structures and systems.	4		

Please note your scores obtained against each question. If the heathcare facility scores 2 or more in any of the questions, it might be at risk from extreme climate events. Please proceed to section D2.

Part D2: General Characteristics of Climate-resilient healthcare facilities*

Part D2.1: Building Site and Access - Healthcare facility should be strategically located*

S.No Questions	Response Codes	Response	Score	Assessment Method	Method of Verification	
	Yes, all areas mentioned are nearby		0			
Is the healthcare facility adjacent to any of the	Yes, multiple areas mentioned are nearby		1			
D2.1.1 following: river/lake/stream/pond/wetland or a	Some of mentioned areas are nearby		2			
frequently waterlogged area?	Near one such area		3			
	Not near any such area		4			
	0-3m (very narrow)		0			
Mathematical Control of the second second second second	3-6m (narrow)		1			
D2.1.2 What is the width of the road connecting your	6-9m (wide)		2			
nearricare facility:	9-12m (very wide)		3			
	12+ m (extremely wide)		4			
	20+ Km (very far)		0			
	10-20Km (far)		1			
D2.1.3 If your facility is a PHC/CHC, how far is your healthcare	5-10Km (accessible by public transport)		2			
adding from the hearest encyrne:	1-5Km (nearby, connected by NMT)		3			
	0-1 Km (very near, walking distance)		4			

Part D2.2: Building Design - Healthcare facility should be designed and maintained to handle severe weather*								
	Unknown/Below flood level		0					
D2.2.1 What is the plinth level of your hospital building?	0-100mm above flood level		1					
	100-200mm above flood level		2					
	200-300 mm above flood level		3					

	More than 300mm above flood level		4		
	More than 15 years ago	Π	0		
	More than 10 years ago	Π	1		
D2.2.2 When was the healthcare facility constructed?	5-10 years ago		2		
,,	3-5 years ago		3		
	Less than 3 years ago		4		
	More than 15 years ago		0		
	More than 10 years ago		1		
D2 2 3 When was the last time the healthcare facility was	5-10 years ago		2		
renovated?	3-5 years ago		3		
	Less than 3 years ago		4		
	Never		0		
	Once in ten vears		1		
D2.2.4 How often does the healthcare facility conduct a	One in five years		2		
structural audit?	Once in three years		3		
	Once a year		4		
	Less than 5000		0		
On an average how much does the healther of failthe	Between 5000-10000		1		
Dr an average, now much does the healthcare facility	z Between 10000-20000		2		
measures?	Between 20000-50000		3		
	More than 50000		4		
	1				
	2		1		
How many access points (entrances) does the	3		2		
healthcare facility have?	1		2		
	4 More than 4		3		
	1		0		
	2		1		
How many emergency exits does the healthcare facility	/ 2		2		
bz.z.7 have?	3		2		
	4 More than 4		3		
	No		4		
transfer beschlusses for 99 - Schladente ad a second	No it is under preparation		1		
D2.2.8 plans or markers pointing to exists and/or meeting	Ves but it is not visible on all floors		2		
points to be used in case of a disaster?	Yes, but it is not visible on all noors		2		
· · · · · · · · · · · · · · · · · · ·	Yes, but people are not aware		3		
	Does not contain elements mentioned		4		
Does the healthcare facility contain any additional	Contains only the measures mentioned		1		
structural elements for protection against floods or	Contains one additional measure		2		
boundary wall, metal grills within compound wals tiled	Contains one additional measure		2		
walls, etc.?	Contains multiple additional measures		3		
			•		
	Part D2.3: Operational Capacity - Healthcare facility should be equ	ipped with adequate resource	s to operate efficiently durin	ng a disaster*	
	0-10		0		
	10-50		1		
D2.3.1 How many patients on an average are treated at the	50-100		2		
nearcheare raemty dairy:	100-150		3		
	150+		4		
	0-10		0		
	10-50		1		
D2.3.2 How many trauma cases on an average are treated in	50-100		2		
the heatthcare facility udily!	100-150		3		
	150+		4		

-						
		Very crowded		0		
		Highly crowded		1		
D2.3.3	choose the option that best describes the healthcare	Somewhat crowded		2		
		Not crowded		3		
		Mostly empty		4		
		Severely understaffed		0		
	Choose the option that best describes the adequacy of	Highly understaffed		1		
D2.3.4	medical staff in the healthcare facility - eg. doctors,	Moderately understaffed		2		
	nurses, physiotherapists, surgeons etc.	Slightly understaffed	Π	3		
		Adequately staffed	Π	4		
		Severely understaffed	<u> </u>	0		
	Choose the option that best describes the adequacy of	Highly understaffed	Π	1		
D2.3.5	non-medical staff in the healthcare facility. eg.	Moderately understaffed	П	2		
	receptionists, cleaning staff, etc.	Slightly understaffed	Π	3		
		Adequately staffed		4		
		Never accredited not applied	<u> </u>	0		
		Seeking accredition soon		1		
D2 3 6	What is the NOAS Accredition status of your hospital?			2		
02.5.0	what is the wey to hear callion status of your hospital.	Accredited 1-2 years ago		3		
				4		
		Never accredited, not applied		4		
		Seeking accredition soon		1		
דננח	What is the NARH Asserbition status of your bespital?			1		
D2.3.7	What is the NABH Accredition status of your hospital?	Accredited 01Ce, lost license		2		
		Accredited 1-2 years ago		3		
				4		
	F	Part D2.4: Disaster Preparedness - Healthcare facility should be prep	ared in terms of infrastructu	re and management to cope dur	ring a disaster*	
		No		0		
	Does the healthcare facility have a disaster	No No, it is under preparation		0 1		
D2.4.1	Does the healthcare facility have a disaster management plan or a standard operating procedure (SOP) in case of climate changed induced disasters such	No No, it is under preparation Yes, but it is rarely used		0 1 2		
D2.4.1	Does the healthcare facility have a disaster management plan or a standard operating procedure (SOP) in case of climate-changed induced disasters such as floods, cyclones, landslides or heatwayes?	No No, it is under preparation Yes, but it is rarely used Yes, it is referred sometimes		0 1 2 3		
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D2.4.1	Does the healthcare facility have a disaster management plan or a standard operating procedure (SOP) in case of climate-changed induced disasters such as floods, cyclones, landslides or heatwaves?	No No, it is under preparation Yes, but it is rarely used Yes, it is referred sometimes Yes, it is followed extensively No		0 1 2 3 4 0		
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D2.4.1 D2.4.2 D2.4.3 D2.4.4	Does the healthcare facility have a disaster management plan or a standard operating procedure (SOP) in case of climate-changed induced disasters such as floods, cyclones, landslides or heatwaves? Does the healthcare facility have a digital system for maintaining patient records? Has the healthcare facility assigned dedicated roles to medical professionals in case of disaster occurence? Does the healthcare facility conduct yearly drills for disaster preparedness?	No No, it is under preparation Yes, but it is rarely used Yes, it is referred sometimes Yes, it is followed extensively No No, it is under preparation Yes, but it is rarely used Yes, it is extensively used No No, it is under discussion Yes, but it is rarely followed Yes, it is followed sometimes Yes, it is followed extensively Never Very rare Sometimes Once in a year No No, it is under construction Yes, but it is not operational		0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2		
D2.4.1 D2.4.2 D2.4.3 D2.4.4 D2.4.5	Does the healthcare facility have a disaster management plan or a standard operating procedure (SOP) in case of climate-changed induced disasters such as floods, cyclones, landslides or heatwaves? Does the healthcare facility have a digital system for maintaining patient records? Has the healthcare facility assigned dedicated roles to medical professionals in case of disaster occurence? Does the healthcare facility conduct yearly drills for disaster preparedness? Does your hospital have a dedicated emergency operation centre or trauma centre?	No No, it is under preparation Yes, but it is rarely used Yes, it is referred sometimes Yes, it is followed extensively No No, it is under preparation Yes, but it is rarely used Yes, it is extensively used No No, it is under discussion Yes, but it is rarely followed Yes, it is followed sometimes Yes, it is followed extensively Never Very rare Sometimes Once in a year Nultiple times a year No, it is under construction Yes, but it is not operational		0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3		
D2.4.1 D2.4.2 D2.4.3 D2.4.4 D2.4.5	Does the healthcare facility have a disaster management plan or a standard operating procedure (SOP) in case of climate-changed induced disasters such as floods, cyclones, landslides or heatwaves? Does the healthcare facility have a digital system for maintaining patient records? Has the healthcare facility assigned dedicated roles to medical professionals in case of disaster occurence? Does the healthcare facility conduct yearly drills for disaster preparedness? Does your hospital have a dedicated emergency operation centre or trauma centre?	No No, it is under preparation Yes, but it is rarely used Yes, it is referred sometimes Yes, it is followed extensively No No, it is under preparation Yes, but it is rarely used Yes, it is extensively used No No, it is under discussion Yes, but it is rarely followed Yes, it is followed extensively Never Very rare Sometimes Once in a year Nultiple times a year No No, it is under construction Yes, but it is not operational Yes, it is piply operational		0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4		
D2.4.1 D2.4.2 D2.4.3 D2.4.4 D2.4.5	Does the healthcare facility have a disaster management plan or a standard operating procedure (SOP) in case of climate-changed induced disasters such as floods, cyclones, landslides or heatwaves? Does the healthcare facility have a digital system for maintaining patient records? Has the healthcare facility assigned dedicated roles to medical professionals in case of disaster occurence? Does the healthcare facility conduct yearly drills for disaster preparedness? Does your hospital have a dedicated emergency operation centre or trauma centre?	No No, it is under preparation Yes, but it is rarely used Yes, it is referred sometimes Yes, it is followed extensively No No, it is under preparation Yes, but it is rarely used Yes, it is extensively used No No, it is under discussion Yes, but it is rarely followed Yes, it is followed sometimes Yes, it is followed sometimes Yes, it is followed extensively Never Very rare Sometimes Once in a year Multiple times a year No No, it is under construction Yes, but it is not operational Yes, it is highly operational No No		0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4		

	Does the healthcare facility have a utility management	No, it is under preparation	1		
D2.4.6	plan for essential utilities such as water, power, food,	Yes, but it is rarely used	2		
	etc.?	Yes, it is referred sometimes	3		
		Yes, it is followed extensively	4		
		Never	0		
	Does the healthcare facility conduct pre-monsoon	Very rare	1		
D2.4.7	maintenance checks on stormwater drains outlets	Conducted once in two years	2		
	within the facility?	Conducted once a year	3		
		Conducted multiple times a year	4		
		No	0		
	Does the healthcare facility have any on-site sources of water supply? For eg. borewell, rainwater harvesting system, treated wastewater etc.	No, it is under construction	1		
D2.4.8		Yes, but it is not maintained	2		
		Yes, but it is partially functional	3		
		Yes, it is fully functional	4		
		No	0		
	Does the healthcare facility have a supply backup of	No, but they are to be installed	1		
D2.4.9	medical equipment and/or medicines within the	Yes, but not maintained	2		
	hospital premise?	Yes, partially functional	3		
		Yes, they are fully functional	4		
		No	0		
	Doos the healthcare facility have an alternate newer	No, they are to be installed	1		
D2.4.10	supply in case of power cuts?	Yes, it has a generator	2		
		Yes, it has invertors	3		
		Yes, it has solar panels installed	4		

Please note your scores obtained against each question. If the heathcare facility scores 2 or less in any of the questions, it might be at risk from extreme climate events. The healthcare facility must build its resilience against extreme climate events to prevent loss and damage in the near future.

Part D3: Additional Section for Healthcare Facilities located in Hilly Regions or Coastal Plains									
Part D3.1: Characteristics of Climate-resilient healthcare facilities in Hilly Regions (Please fill only if your facility is located in a hilly area)									
S.No Questions	Response Codes	Response	Score	Assessment Method	Method of Verification				
	Unknown/Seismic Zone I		0						
	Seismic Zone III		1						
D3.1.1 Which seismic zone does the healthcare facility fall in?	Seismic Zone III		2						
	Seismic Zone IV		3						
	Unknown/Seismic Zone V		4						
	Unlikley		0						
Which landslide zone does the healthcare facility fall in	Low Risk Zone		1						
D3.1.2 as per this map? <u>https://www.bmtpc.org/topics.aspx?</u>	Moderate Risk Zone		2						
mid=56&Mid1=186	High Risk Zone		3						
	Very High Risk Zone		4						
	No, never		0						
the declaration for the second s	Before five years		1						
D3.1.3 Has the healthcare facility or its surrounding regions	One in the last five years		2						
observed a landside in the last five years:	Twice in the last five years		3						
	More than once in last five years		4						
	All external walls and foundation have pucca construction (cement-sand or plastering)		0						
	Some external walls and foundation have pucca construction		1						
D3.1.4 How would you describe the type of construction of the	Only the foundation has pucca construction		2						
external waits of the healthcare facility?	Semi-pucca construction is observed		3						

	The healthcare facility observes kutcha construction (mud/wood etc.)	4		
	Pyramidal or gable-type roof with roof projection	0		
	Pyramidal or gable-type roof with no roof projection	1		
D3.1.5 How would you describe the root of the healthcare	Pitched roof with/without roof projection	2		
lacinty:	Flat roof with parapet and/or roof projection	3		
	Flat roof with no roof projection	4		
	Not accessible by public transport	0		
	Unpredictable access through public transport	1		
D3.1.6 How would you describe the connectivity to your	Accessible at intervals through public transport	2		
nearricare facility by public transport !	Accessible throughout the day through public transport	3		
	Accessible 24/7 by public transport	4		
	More than 4 hours or unpredictable	0		
	3-4 hours	1		
D3.1.7 How far (in terms of commute time) is the next	2-3 hours	2		
	1-2 hours	3		
	Less than 1 hour	4		

Please note your scores obtained against each question. If the heathcare facility scores 2 or more in any of the questions, it might be at risk from extreme climate events. The healthcare facility must build its resilience against extreme climate events to prevent loss and damage in the near future.

		Part D3.2: Characteristics of Climate-resilient healthcare facilities in	n Coastal Regions (Please fill or	nly if your facility is locate	ed in a coastal belt)		
S.No	Questions	Response Codes	Response	Score	Assessment Method	Method of Verification	
		Less than 5Km		0			
		Less than 2Km		1			
D3.2.1	How far is the hospital premise from the high tide line?	Less than 1Km		2			
		Less than 500m		3			
		Less than 250m		4			
		More than 4m		0			
		3-4m		1			
D3.2.2	what is the elevation of the hospital building with respect to the high tide line?	2-3m		2			
		1-2m		3			
		Less than 1m		4			
		Low Damage RIsk Zone		0			
	Which of the following wind speed zones does the	Moderate Damage Risk Zone - A/B		1			
D3.2.3	org/DataFiles/CMS/file/VAI2019/MAP/windman/wind_i	High Damage Risk Zone		2			
	pg/WIND_INDIA1.jpg	Very High Damage Risk Zone - B		3			
		Very High Damage Risk Zone - A		4			
		Shielded from wind by a hillock and wind-resistant trees		0			
		Shielded from wind by a hillock or wind-resistant trees		1			
D3.2.4	Which of the following categories best describes the surroundings of the healthcare facility?	Partially shielded by hillocks or trees		2			
	sansanangs of the freditione facility.	Not shielded but building facade does not face wind direction		3			
		Not shielded, building facade faces wind direction		4			