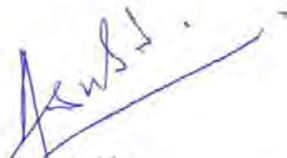


**DECLARATION**

I declare that the thesis entitled “**DISASTERS AND THEIR MANAGEMENT IN DARJEELING HIMALAYA**” has been prepared by me under the supervision of Prof. Maitreyee Choudhury, Centre for Himalayan Studies, University of North Bengal.

No part of this thesis has the basis for the award of any degree or fellowship previously.

  
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Centre for Himalayan Studies,  
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Date: 09-11-2022  
Time: 2:00 P.M.

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Professor



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## CERTIFICATE

I certify that the dissertation entitled “**DISASTERS AND THEIR MANAGEMENT IN DARJEELING HIMALAYA**” submitted by Shri Aditya Subba in partial fulfillment of the requirements for the award of the degree of Doctor of Philosophy of the University of North Bengal has not been published previously, nor submitted for any degree of this University or any other University. He has fulfilled all the requirements of Ph.D regulation of this university for the submission of this dissertation. The paper is a product of the candidate's own investigation. He has completed the work under my guidance and supervision.

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DISASTERS AND THEIR MANAGEMENT IN DARJEELING HIMALAYA A Thesis Submitted to the University of North Bengal in Partial Fulfillment of the Degree of Doctor of Philosophy in Geography at the Centre for Himalayan Studies By ADITYA SUBBA Supervisor PROF. MAITREYEE CHHODHURY CENTRE FOR HIMALAYAN STUDIES UNIVERSITY OF NORTH BENGAL, RAJA RAMMOHANPUR, DARJEELING, WEST BENGAL, PIN - 734013 2022  
 1 CHAPTER - INTRODUCTION 11 HAZARD AND DISASTER A disaster is the perceived materialization of a hazard, which is a perceived harmful occurrence that poses a threat to both life and property. It can also be described as a hazardous situation or event that poses a threat to human life or has the potential to endanger the environment. (Khan, Vasilescu, & Khan, 2008). Any event that results in destruction, ecological disturbance, human casualties, or degradation

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 of health and health services on a scale that justifies an extraordinary reaction from outside the affected community. or

*Aswals*  
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Professor  
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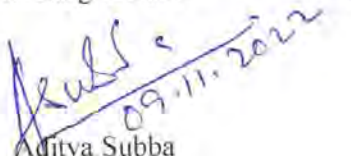
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## LIST OF ABBREVIATIONS

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ATREE	Ashoka Trust for Research in Ecology and the Environment
BDIC	Block Disaster Information Centre
BDO	Block Development Officer
BDMO	Block Disaster Management Officer
BDMA	Block Disaster Management Authority
BDMC	Block Disaster Management Committee
BPL	Below Poverty Level
BSF	Border Security Force
CAP	Contingency Action Plan
CBDM	Community Based Disaster Management
CCP	Community Contingency Plan
CD	Community Development
CMG	Crisis Management Group
CRC	Central Relief Commissioner
CS	Chief Secretary
DAC	Department of Agriculture and Co-operatives
DDMP	District Disaster Management Plan
DDMA	District Disaster Management Authority
DEOC	Disaster Emergency Operation Centre
DIF	Darjeeling Improvement Fund

DM	District Magistrate
DPLO	District Planning Section
DPRDO	District Panchayat and Rural Development
EOC	Emergency Operation Centre
ER	Economic Rehabilitation
FAO	Food and Agriculture Organization
GP	Gram Panchayat
GR	Gratuity Relief
GSI	Geological Survey of India
GTA	Gorkhaland Territorial Administration
GoWB	Government of West Bengal
HFA	Housing for All
IAY	Indira Awas Yojana
ICDS	Integrated Child Development Service
ICRC	International Committee of the Red Cross
IDNDR	International Decade for Natural Disaster Reduction
IHSDP	Integrated Housing and Slum Development Program
IMD	India Meteorological Department
IOM	International Organization for Migration
IPID	Institute for Participatory Interaction in Development
IRC	International Rescue Committee

IRCRC	International Red Cross Red Crescent Society
IRT	Incident Response Team
ISDP	Integrated Settlement Development Plan
KED	Kalimpong Engineering Department
MoHF	Ministry of Home Affairs
MSF	Medicines Sans Frontiers
NCMC	National Crisis Management Committee
NDMA	National Disaster Management Authority
NDRF	National Disaster Response Force
NEC	National Executive Committee
NGO	Non-Governmental Organization
NH	National Highway
NHPC	National Hydroelectric Power Corporation
NIDM	National Institute of Disaster Management
NPDM	National Policy on Disaster Management
NREGA	National Rural Employment Guarantee Act
NSSP	National School Safety Program
NTPC	National Thermal Power Corporation
OXFAM	Oxford Committee for Famine Relief
PHED	Public Health Engineering Department
PRI	Panchayati Raj Institution

PWD	Public Works Department
QRT	Quick Response Team
SAP	State Armed Police Force
SDMA	State Disaster Management Authority
SDMF	State Disaster Mitigation Fund
SDO	Sub-Divisional Officer
SDRF	State Disaster Response Force
SEOC	State Emergency Operation Centre
SEC	State Executive Committee
SHG	Self Help Group
SRC	State Relief Commissioner
SOG	Standard Operations Guide
SWOT	Strength Weakness Opportunity Threat
OCHA	Office for the Coordination of Humanitarian Affairs
OHCR	Office of High Commissioner for Human Rights
TLDP	Teesta Low Dam Project
ULB	Urban Local Bodies
UN	United Nations
UNDP	United Nations Development Programs
UNHCR	United Nations High Commission for Refugees
UNICEF	United Nations Children's Emergency Fund

VDMC	Village Disaster Management Committees
VDMP	Village Disaster Management Plans
VDMT	Village Disaster Management Teams
WBDMP	West Bengal Disaster Management Policy
WBSDMA	West Bengal State Disaster Management Authority
WBSEDCL	West Bengal State Electricity Distribution Company Limited
WFO	World Food Program
WHO	World Health Organization
WVO	World Volunteer Overseas
WWF	World Wide Fund for Nature