Governance and Institution in the Indian Forest Sector

Jyotish Prakash Basu

Governance and Institution in the Indian Forest Sector

An Analytical Study



Jyotish Prakash Basu West Bengal State University Kolkata, West Bengal, India

ISBN 978-3-031-34745-0 ISBN 978-3-031-34746-7 (eBook) https://doi.org/10.1007/978-3-031-34746-7

© The Editor(s) (if applicable) and The Author(s), under exclusive license to Springer Nature Switzerland AG 2023

This work is subject to copyright. All rights are solely and exclusively licensed by the Publisher, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, reuse of illustrations, recitation, broadcasting, reproduction on microfilms or in any other physical way, and transmission or information storage and retrieval, electronic adaptation, computer software, or by similar or dissimilar methodology now known or hereafter developed.

The use of general descriptive names, registered names, trademarks, service marks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

The publisher, the authors, and the editors are safe to assume that the advice and information in this book are believed to be true and accurate at the date of publication. Neither the publisher nor the authors or the editors give a warranty, expressed or implied, with respect to the material contained herein or for any errors or omissions that may have been made. The publisher remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

This Springer imprint is published by the registered company Springer Nature Switzerland AG The registered company address is: Gewerbestrasse 11, 6330 Cham, Switzerland

Foreword

Since the FAO initiated its five-yearly remote sensing-based global forest resource assessment in 1990, it has documented disturbing deforestation and forest degradation rates in the Global South. The underlying causes are highly complex and vary from place to place, but most documented degradation rarely follows official political priorities. On the contrary, deforestation and forest degradation are often categorized as policy failures. Following Nobel Price Laurette Elinor Ostrom's groundbreaking publication, Governing The Commons: The Evolution of Institutions for Collective Action in 1990, various forms of decentralized forest governance have been implemented across the Global South to improve rural livelihoods and conserve forest resources. Since then, a substantial amount of research has investigated whether and the degree to which different forms of decentralization have delivered on the stated objectives. Many single-case or small-n studies trace decentralized forest governance's biophysical, socioeconomic, and socio-political effects, but large-n studies are rare.

This book offers a large-n study, including 36 villages, 844 households, 10 gram panchayats, 12 beat offices, and 36 forest protection committees in West Bengal. It also develops a forest governance index that allows a quantitative comparison across many cases. Hence, the results may be generalized for larger units within a formal forest governance hierarchy. This is not a trivial matter. Generalizations based on a few case studies that criticize the outcomes of existing power structures are often (rightly and wrongly) dismissed (by those in power) as non-representative. Through a rigorous collection of standardized data and index calculation on the rule of law; transparency; accountability; participation; degree of inclusiveness and equitability; and efficiency and effectiveness, the governance of forests become directly comparable across villages and administrative units.

Most people in the studied villages are very poor and thus highly dependent on forests for their livelihoods. However, the combined forest governance index only qualifies as good in two of the investigated villages. The forest governance is poor in three villages, while the rest rank as medium. There is room for improvement in all villages, and the governance indexes, including their subcomponents, tell us which parameters and decision-making processes to focus on for further improvement.

vi Foreword

Hence, the book will inspire fellow scientists investigating the effects of decentralized forest governance and practitioners striving to make forest decentralization work for forests and rural people.

Thorsten Treue Associate Professor, Ph.D. in Forest Policy and Economics The University of Copenhagen Copenhagen, Denmark

Preface

Forests play an important role in achieving the 17 Sustainable Development Goals (SDGs) of the United Nations, 2030 Agenda, and SDG 16th have also focused on institutions and non-discriminatory laws and policies relating to forests and forest life. The forest management practice has led to the degradation of forests in some developing countries, especially in Latin America, South East Asia, and Congo. As a result, the forest management paradigm shifted from timber production to sustainable forest management. To achieve sustainable forest management, forest governance research has received keen attention to address environmental degradation, forest conservation, deforestation, and climate change issues at the global level along with livelihood generation and poverty reduction of forest-dependent communities at the local level in the socio-ecological and political system in West Bengal, India. The study of forest governance is largely influenced by the functioning of institutions.

In India, 97% of the total forest area is governed by the government out of which 93% is controlled by the state forest department and the rest 4% by the state revenue department. The rest 3% of forest land is owned by private entities and communities. In India, about 27–30% of the population are forest-dependent communities living in the forest fringe areas. About 28% of the forest area is protected or managed in collaboration with communities under the Joint Forests Management (JFM) program.

There are more studies on forest governance and institutions available at the cross-country level and national levels based on secondary data while very few studies are at the local level. The study provides an exhaustive analysis of forest governance quantitatively at the local level based on primary data collection. The study attempts to address the quantitative analysis of forest governance, enforcement, monitoring; participation, and institution which are the important pillars of the study.

The study was conducted in the two regions of West Bengal, India. One is the South Bengal forest division while the other is the North Bengal forest division in West Bengal, India, during 2020–21. The total number of selected households in the two forest divisions comprises 844, and the number of villages is 35. In addition, the study has also surveyed 12 beat offices, 10 gram panchayats, and 34 forest protection committees in both forest divisions. The study has utilized various governance indicators, namely Rule of Law, Transparency, Accountability, Participation, Inclusive

viii Preface

and Equitable, and Efficient and Effective to formulate the forest governance index. In addition, the monitoring index, enforcement index, and forest dependency index have been constructed at the household level. Different statistical and econometric models are applied to identify the determinants of forest governance at the household level. Besides, the study also attempts to address the impact of governance in the forest sector based on macro-level data in India.

Particular attention is given to the forest policies and Acts of India during preand post-independence periods and other Asian, African, and Latin American countries. Special importance is given to the study of governance trends in South Asian countries.

Kolkata, West Bengal, India

Jyotish Prakash Basu

Acknowledgements

I would like to express my gratitude to the Indian Council of Social Science Research (ICSSR), New Delhi, for financial support to conduct the study. The study is based on secondary data and primary data. During the field survey, I received generous support, guidance, and assistance from several people, including students in different colleges, Ph.D. scholars, local people, and many others in the selected nearby villages, as well as government officials in West Bengal. The field survey would not be possible without their active participation and cooperation. Special thanks in this regard should be given to Dr. Sourav Kumar Das, the project assistant, for spending his tireless effort to make a successful field survey. Again thanks to Aishwarya Basu, Ph.D. scholar, Department of Economics, the University of Burdwan, for her participation in the field survey. I am further grateful to my university authority for giving me infrastructural facilities including space and a library.

Contents

Rev	iew of L	iterature
2.1	Litera	ture on Institutions and Enforcement
2.2	Litera	ture on Forest Livelihood
2.3	Litera	ture on Forest Participation
2.4	Litera	ture on Governance like the Rule of Laws,
	Trans	parency, Accountability, Inclusive and Equitable
Refe	erences	
Date	a Raca a	nd Methodology
3.1		Area
0.11	3.1.1	
		in the Purulia District
	3.1.2	Sampling Technique for Data Collection in Purulia
		Forest Division
	3.1.3	Description of Bankura (South) Forest Division
		in the Bankura District of South Bengal
	3.1.4	Sampling Technique for Data Collection in Bankura
		(South) Forest Division
	3.1.5	Description of Rupnarayan Forest Division
		of Paschim Medinipur District, South Bengal
	3.1.6	Sampling Techniques for Data Collection
		in the Rupnarayan Forest Division of Paschim
		Medinipore
	3.1.7	Description of Alipurduar Forest Division of North
		Bengal
	3.1.8	Sampling Technique for Data Collection
		in Alipurduar Forest Division
3.2	•	rtical Methods
	3.2.1	Forest Participation Index

xii Contents

		3.2.2 Institutional Index	35	
		3.2.3 Monitoring Index and Enforcement Index	36	
		3.2.4 Forest Dependence Index	37	
		3.2.5 Forest Governance Index	38	
		3.2.6 Factors Affecting Forest Governance Index	41	
		3.2.7 Forest Governance and Forest Dependency Index3.2.8 Impact of Forest Governance on Forest Cover	42	
		in India Based on Secondary Data	43	
	Refe	rences	44	
4	Governance in South Asian Countries and Impact			
		overnance on Forest Cover in India	45	
	4.1	Forest Area, Annual Change in Forest Area and Forest		
		Ownership Across South Asian Countries	45	
	4.2	Governance Structure Across South Asian Countries	46	
		4.2.1 Forest Cover of India as a Whole and West Bengal	40	
	4.2	in Particular	48	
	4.3	Forest Policies and Acts in India During Pre and Post	<i>5</i> 4	
		Independence	54	
		(1857–1947)	54	
		4.3.2 Forest Policies and Acts in the Post-independence	54	
		India	55	
	4.4	Impact of Governance on Forest Cover in India	58	
		rences	62	
_			02	
5	Socio-economic Analysis of Sample Households in the South			
		gal and The North Bengal Forest Division	63	
	5.1	Socio-economic Conditions of Households in the Purulia	60	
	<i>-</i> 0	Forest Division	63	
	5.2	Socio-economic Conditions of Bankura (South) Forest	7.4	
	<i>5</i> 2	Division	74	
	5.3	Socio-economic Conditions of Rupnarayan Forest Division	02	
	5.4	in the PaschimMedinipur District	83	
	5.4	in the Alipurduar Forest Division, North Bengal	97	
		iii tile Alipuitutai Folest Division, North Bengai	91	
6		lysis of Forest Protection Committee (FPC), Forest Beat		
		ce and Gram Panchayat in South and North Bengal Forest		
	Divis	sions	109	
	6.1	FPC of Purulia Forest Division, South Bengal	109	
	6.2	FPC of Bankura (South) Forest Division, South Bengal	113	
	6.3	FPC of Rupnarayan Forest Division of Paschim Medinipur,		
		South Bengal	116	
	6.4	FPC of Alipurduar Forest Division, North Bengal	119	

Contents xiii

lia 129
lia 129
ı
130
yan
1 132
g
133
105
West
136
137
e
137
d
137
138
ning,
145
145
156
orth
163
cross 169
171
173
173 ith
173
sion,
180

xiv Contents

	9.3	Forest Governance of Rupnarayan Forest Division	
		of Paschim Medinipur, South Bengal	184
	9.4	Forest Governance of Alipurduar Forest Division of North	
		Bengal	192
	9.5	Comparative Analysis of Forest Governance Across	
		Different Forest Divisions of South Bengal and North	
		Bengal	197
10	Fores	st Dependency and Forest Governance in South Bengal	
		North Bengal Forest Divisions	203
	10.1	Forest Dependency Index (FDI) in Purulia Forest Division	203
	10.2	Relation Between Forest Dependency and Forest	
		Governance in Purulia Forest Division	204
	10.3	Forest Dependence Index (FDI) in Bankura (South) Forest	
		Division	208
	10.4	Relation Between Forest Dependence and Forest	
		Governance in Bankura (South) Forest Division	210
	10.5	Forest Dependence Index (FDI) of the Households	
		in Rupnarayan Forest Division of Paschim Medinipur	212
	10.6	Relation Between Forest Dependence and Forest	
		Governance in Rupnarayan Forest Division of Paschim	
		Medinipore	214
	10.7	Forest Dependence Index (FDI) of the Households	
		in Alipurduar Forest Division, North Bengal	216
	10.8	Relation Between Forest Dependence and Forest	
		Governance in Alipurduar Forest Division, North Bengal	218
11	Conc	clusions and Policy Recommendations	223
	11.1	Conclusions	223
	11.2	Government Policy	228
	11.3	Recommendations	229
	Refer	rence	231