

# Farmer Management of Groundwater Irrigation in Asia

*Selected Papers from a South Asian  
Regional Workshop*

*Editors:*

M. D. C. Abhayaratna

D. Vermillion

S. Johnson

C. Perry

IIMI  
631.7.6.3  
G570  
ABH



INTERNATIONAL IRRIGATION MANAGEMENT INSTITUTE

15148

[Click here to download the full document.](#)

## Contents

<b>Preface</b> .....	vii
<b>Acknowledgements</b> .....	ix
<b>Overview</b>	
<b>Overview of Workshop Activities, Issues and Recommendations</b> <i>R. Sakthivadivel, D. Parker and S. Manor</i> .....	3
<b>Resource Development and Use</b>	
<b>Hydrogeological Potentiality of Intensive Farmer-Managed Tubewell     Irrigation Systems in Bangladesh: A Case Study</b> <i>M. A. Sattar and K. A. Haq</i> .....	15
<b>Farmer-Managed Irrigation Systems and Sustainable Groundwater     Management: An Endeavor of Proshika Target Groups to Ensure     Sustainability of Groundwater Management</b> <i>S. C. Sarkar</i> .....	29
<b>Sustainability of Farmer-Managed Groundwater Irrigation Systems     in Drought-Prone Areas: The Role of Socioeconomic Conditions</b> <i>M. Venkata Reddy</i> .....	37
<b>Parameters of Doubt: Prospects for Groundwater Assessment to Help     Farmers in Hard Rock Areas of South India</b> <i>Linden Vincent</i> .....	47
<b>Groundwater and Electricity Co-Management: Generating New Options</b> <i>Marcus Moench</i> .....	55
<b>Utilization of Groundwater Resources in North-Western Sri Lanka:     Some Issues Pertaining to Sustainable Development</b> <i>M. D. C. Abhayaratna</i> .....	65
<b>Sustainable Groundwater Development and Management in Nepal:     Major Issues Confronted by a Development Bank in Nepal</b> <i>Ujjwal Pradhan and Ganesh Thapa</i> .....	75
<b>System Management and Performance</b>	
<b>Sustainability of Groundwater Farmer-Managed Irrigation Systems</b> <i>Manuel Olin</i> .....	87

Utilization of Water under Different Deep Tubewell Management Systems in the Rajshahi Area of Bangladesh <i>M. N. Hassan and M. N. Islam</i> . . . . .	95
Minor Irrigation Development: A Key for Sustainable Agricultural Development in Bangladesh <i>M. A. Ghani and S. A. Rana</i> . . . . .	107
Case Study of Management of Three Deep Tubewells in Tangail, Bangladesh <i>M. H. Rashid, M. A. K. Mridha and Ian K. Smout</i> . . . . .	115
Experience of Community-Managed Tubewells in the Command of a Surface Irrigation Project <i>T. Prasad Anand Verdhen, R. S. Sinha and A. K. Verma</i> . . . . .	127
Community Sprinkler System in Sullikere Village, Bangalore Urban District, South India <i>D. S. K. Rao</i> . . . . .	139
Sustainability of Water Users' Associations as Groundwater Irrigation Managers: A Case Study under On-Farm Water Management, Punjab, Pakistan <i>Muhstaq Ahmad Gill</i> . . . . .	153
Comparative Assessment of Farmer-Managed and Agency-Managed Groundwater Irrigation Schemes in Nepal <i>N. Ansari</i> . . . . .	161
Capabilities of Water Users' Associations in Managing Groundwater Pump Irrigation: A Case Study from East Java, Indonesia <i>Agus Pakpahan and Sumaryanto</i> . . . . .	173
Farmer-Managed Pump Irrigation Systems: A Case Study of Guimba-Cuyapo Network in the Philippines <i>Vicente S. Flores and Avelino M. Mejia</i> . . . . .	181
Development of Groundwater Resources and Farmer-Managed Irrigation Wells in Shandong Province, China <i>Sun Fu Wen</i> . . . . .	197
<b>List of Workshop Participants</b> . . . . .	<b>203</b>