TABLE OF CONTENTS

Particulars	Reference to				
	Paragraphs	Page			
Preface	<i>8</i> I	V			
Executive Summary		vii-x			
Chapter-1					
Introduction					
Introduction	1.1	1			
Rural Water Supply	1.2	2-3			
Urban Water Supply	1.3	3-4			
Department/Entities involved in Water Supply	1.4	4-6			
Audit Objective	1.5	6			
Audit Criteria	1.6	6-7			
Audit scope and methodology	1.7	7			
Organisation of Audit findings	1.8	7			
Chapter-II					
Inadequate Planning					
Formulation of policies/plans in line with National Water Policy	2.1	9-10			
Preparation of Annual Action Plan under NRDWP	2.2	11			
Planning in urban areas	2.3	11-12			
Non-assessment of requirement of water for institutions under urban areas	2.4	12			
Preparation of Operation and Maintenance Plan	2.5	12-13			
Preparation of Water Security Action Plan	2.6	13-14			
Achievement against the planned/set targets	2.7	14-17			
Non-functional schemes due to non-obtaining of electric connection for the water works	2.8	18			
Chapter-III					
Improper Financial Manageme	ent				
Overview of finances	3.1	19			
Budget and Expenditure	3.2	19-21			
Lack of departmental efforts in making schemes self-sustainable	3.3	21-22			
Non-recovery of water charges amounting ₹ 278.20 crore	3.4	22-24			
Collection of community contribution	3.5	24			
Late release of State share	3.6	24-25			
Release and utilisation of Central and State funds in NRDWP/JJM	3.7	25-26			
Non-completion of work within time frame leads to extra liability on the State Government	3.8	27			
Chapter-IV					
Inadequate Supply of Water					
Assessment of quantity of water supplied	4.1	29			
Status of Water supply to consumers in PHED	4.2	30-32			
Case study of Rewari town	4.3	32-33			

Particulars	Reference to	
	Paragraphs	Page
Some specific systemic issues	4.4	34-35
Provision of metered connection	4.5	35-37
Conduct of Water Audit	4.6	37
Leakage in distribution system leading to generation of	4.7	37-38
non-revenue water		
Non-maintenance of records related to history sheets of pumping machinery	4.8	38-39
Chapter-V		
Poor Quality of water supplie	d	
Assessment of quality of water supplied	5.1	41-44
Analysis of water samples tested at various laboratories of PHED	5.2	44-45
Lack of mechanism for re-testing of failed sample	5.3	45-46
Testing of source prior to commissioning of schemes	5.4	46
Laboratory infrastructure	5.5	46-50
Non-testing of water sample as per Uniform Drinking Water Quality Monitoring Protocol's parameters	5.6	50-51
Non-fixation of targets in respect of water sampling	5.7	51-52
Shortage of manpower in laboratory	5.8	52-53
Shortcomings in utilisation to Field Testing Kits (FTKs)	5.9	53-55
Lack of testing facilities to detect presence of Uranium and non- testing of water samples for heavy metals in areas where water supply is ground based	5.10	55-56
Non-installation of Community Water Purification Plants (CWPP) resulted in depriving the habitants of potable water	5.11	56-57
Delay in commissioning of conversion of tube well based scheme to canal based scheme	5.12	57-58
Regular Cleaning of Over Head Tanks (OHTs)/Clear Water Tanks (CWTs) not done	5.13	58
Chapter-VI		
Deficient emphasis on Sustainability and insuf	ficient Monitorii	ng
Non-preparation/implementation of sustainability measures	6.1	61
Lack of departmental efforts to reduce dependency on Ground Water	6.2	61-62
Non-conducting of awareness programme	6.3	62-63
Public Grievances/Complaints	6.4	63
Water Quality Monitoring and Surveillance (WQM&S)	6.5	64
Delay in completion of Swaran Jayanti Mahagram Yojana works	6.6	64
Delay in completion of work	6.7	65
Absence of Management Information System (MIS) in ULBs and HSVP	6.8	66

APPENDICES

Appendix	Description	Reference to	
		Paragraph	Page
1	Details of Rural and Urban Water Supply Schemes	1.2 & 1.3	69-70
2	Details of towns and areas under PHED, ULB and HSVP	1.3	71
3	Organisation structure of implementing agencies	1.4 (III)	72
4	Detailed Audit Methodology	1.7	73-74
5	Details of villages covered for survey under MGGBY	2.7 (b)	75
6	Details of non-functional tube-wells due to pending electric connections	2.8	76
7	Details of outstanding water charges	3.4.1, 3.4.2 & 3.4.3	77
8	Details of Community Contribution Collection	3.5	78
9	Assessment of quantity of water supplied by installing flow meters	4.1	79-80
10	Audit Methodology for assessment of sanctioned discharge by I&WRD and storage tank capacity	4.2 & 4.2.2	81
11	Water works/Cases with less sanctioned discharge against the water requirement of 55 LPCD	4.2.1	82
12	Water works/Cases with less sanctioned discharge against the water requirement of 70 LPCD	4.2.1	83-85
13	Cases with less capacity of Storage and Sedimentation Tanks where water requirement is 55 LPCD	4.2.2	86
14	Cases with less capacity of Storage and Sedimentation Tanks where water requirement is 70 LPCD	4.2.2	87-89
15	Details of water connections in HSVP	4.5.1	90
16	Adverse bacteriological examination reports (Total Coliform Bacteria) by PHED and SRI laboratory	5.1.1	91
17	Adverse physical & chemical water sampling report by PHED laboratory	5.1.1	92-93
18	Comparison of common parameter tested in both the laboratories	5.1.1	94-99
19	Details of water samples tested in selected districts	5.2	100
20	Staff position at District Level Water Testing Laboratories	5.8	101
21	Details of quality affected habitations	5.11	102
22	Fluoride affected habitation with their installation and result of water testing	5.12	103
23	Delayed schemes relating to shifting of source	5.12	104
24	Details of Public Grievances/complaints attended by PHE Department	6.4	105
25	Details of source testing in rural areas	6.5	106
26	Division wise status of works (PHED)	6.7.1	107
27	Status of works of selected divisions of Urban Local Bodies Department, Haryana	6.7.2	108
28	Division-wise status of delayed works (selected HSVP & MCs)	6.7.2	109