TABLE OF CONTENTS

	Reference	
PARTICULARS	Paragraph	Page
Preface	-	v
Executive Summary	-	vii
CHAPTER-I		
Introduction		1
Brief snapshot of the Chapter	-	1
Introduction	1.1	1
Organisational Set up	1.2	2
Audit objectives	1.3	2
Audit criteria	1.4	3
Scope of Audit and methodology	1.5	3
Brief Description of the selected irrigation projects	1.6	5
Bansagar Canal Project (Uttar Pradesh)	1.6.1	5
Lahchura Dam Project	1.6.2	6
Outcome indicators	1.7	7
Structure of Report	1.8	8
Acknowledgement	1.9	8
CHAPTER-II		
Project Planning		
Brief snapshot of the Chapter	-	9
Introduction	2.1	9
Shortcomings in Detailed Project Reports of Bansagar Canal Project (Uttar Pradesh)	2.2	10
Deficient planning leading to frequent revision of Detailed Project Reports	2.2.1	10
Incorrect assessment of need of water	2.2.2	12
Ad hoc selection of canals for remodeling	2.2.3	13
Shortcomings in Detailed Project Reports of Lahchura Dam Project and Pahari Dam Project	2.3	13
Multiple changes in DPR of Lahchura Dam Project	2.3.1	13
Preparation of Detailed Project Reports of Pahari Dam Project without detailed survey	2.3.2	15
Insufficient water storage capacity of dams	2.3.3	16
DPR did not include restoration of Dhasan canal system	2.3.4	18
CHAPTER-III Project Implementation		
Brief snapshot of the Chapter	_	21
Introduction	3.1	21
ind outerion	5.1	

Performance Audit of Outcomes in Surface	e Irrigation of Bansagar	Canal Project and Lahchura	Dam Project

Financial Management : Bansagar Canal Project (Uttar Pradesh)	3.2.1	22
Allotment and expenditure thereagainst	3.2.1.1	22
Short release of funds	3.2.1.2	23
Irregular diversion of centage charges	3.2.1.3	23
Financial management: Lahchura and Pahadi Dam Projects	3.2.2	24
Allotment and expenditure thereagainst	3.2.2.1	24
Irregular diversion of stock and inflated expenditure	3.2.2.2	25
Pending liabilities	3.2.2.3	25
Contract Management in Bansagar Canal Project (Uttar Pradesh)	3.3	26
Determination of balance works	3.3.1	27
Security deposit not forfeited	3.3.1.1	27
Belated insertion of contract conditions	3.3.2	27
Unjustified payment of price adjustment	3.3.2.1	29
Irregular grant of mobilisation advance	3.3.3	30
Contract Management in Lahchura Dam Project	3.4	31
NIT issued before sanction of work	3.4.1	32
Award of work to ineligible contractors	3.4.2	32
Short deposit of Performance Security	3.4.3	33
Irregular grant of secured advance	3.4.4	34
Cost of granite stones excavated from Lahchura Dam Project not recovered	3.4.5	34
Labour Cess not deducted/deposited	3.4.6	35
Unauthorised sanction of cost variations under BCP and Lahchura Dam Project	3.5	36
Irregular grant of time extension to contractors under BCP	3.6	38
Quality Control	3.7	40
Maintenance of the canals	3.8	41
CHAPTER-IV Project Outcomes		
Brief snapshot of the Chapter	-	45
Introduction	4.1	46
Completion and commissioning of projects	4.2	46
Incomplete works of Bansagar Canal Project (Uttar Pradesh)	4.2.1	46
Project outcomes	4.3	49
Augmentation of water availability	4.4	51
Water availability in Bansagar Canal Project (Uttar Pradesh)	4.4.1	51
Water availability in Dhasan Canal System	4.4.2	52
Supply of water from canals to field	4.4.3	53
Operation of canals in shorter duration	4.5	54
Augmentation in Irrigation Intensity	4.6	56

	gation targets in Bansagar Canal Project	4.6.1	56
(Uttar Pradesh)		4.0.1	30
Achievement of irrig	gation targets in Dhasan Canal System	4.6.2	57
Increase in producti	vity and production	4.7	58
Distribution of certi	fied Seed	4.7.1	59
Short/delayed suppl	y of certified seeds to the farmers	4.7.1.1	59
Distribution of other	r than recommended varieties of seed	4.7.1.2	59
Soil testing		4.7.2	60
Soil Testing Laboration	tories not established at village level	4.7.2.1	61
Inadequate soil testi	ng	4.7.2.2	61
Productivity		4.8	61
Production		4.9	63
Development of cor	nmand area	4.10	63
Water User Associa	tion not formed	4.11	66
	APPENDICES		
Appendix-1.1	Details of economic region-wise districts in Utta	r Pradesh	69
Appendix-1.2	Department-wise offices records examined in Au	Department-wise offices records examined in Audit	
Appendix-2.1	Details of cost variations		72
Appendix-2.2	Variation in quantities executed over and above the quantities approved in the DPR (revised in 2011-12) of Lahchura Dam Project		77
Appendix-2.3	Appurtenant works of Lahchura Dam project executed at higher rates		78
Appendix-3.1	Year-wise allotment and expenditure thereagainst under BCP		79
Appendix-3.2	Details of additional quantities/new item of works included in the new Bill of Quantity in BCP		80
Appendix-3.3	Non-forfeiture of security deposit in rescinded co	ontracts in BCP	81
Appendix-3.4	Irregular grant of secured advance paid to RPPL		82
Appendix-3.5	Details showing variation in quantities in BCP		83
Appendix-3.6 Details of variations in quantities in appurtenant works of Lahchura Dam project		85	
Appendix-3.7Details showing variation in quantities in the work of Adwa Barrage in BCP		86	
Appendix-3.8 (A) Details of year-wise testing of samples		87	
Appendix-3.8 (B) Details of Cube test conducted by Quality Control Division, BCP		88	
Appendix-3.9 Requirement of fund for operation and maintenance of canals		89	
Appendix-3.10 Status of operation and maintenance of selected canals		90	
Appendix-4.1 (A) Details showing insufficient release of water in test checked canals of BCP (Kharif and Rabi)		92	

Performance Audit of Outcomes in Surface Irrigation of Bansagar Canal Project and Lahchura Dam Project

		-
Appendix-4.1 (B)	Supply of insufficient water in test checked canals of Dhasan Canal System	96
Appendix-4.2	(I) Position of tail feeding of test checked canals in BCP	97
	(II) Position of tail feeding of test checked canals in DCS	
Appendix-4.3	Canal system-wise irrigation intensity against the target in BCP	98
Appendix-4.4 (A)	Details of requirement and supply of certified seeds at district level	100
Appendix-4.4 (B)	Details of requirement and supply of certified seeds at selected village level	101
Appendix-4.5 (A)	Details of delay in availability of seeds at central seed store during 2014-21	102
Appendix-4.5 (B)	Details of delay in distribution of seeds after sowing period in test checked blocks	103
Appendix-4.6	Detail of Un-approved variety of seeds and their distribution	104
Appendix-4.7 (A)	Yield in test checked villages	107
Appendix-4.7 (B)	Details of village-wise productivity in test checked villages	108
Appendix-4.8	Details of Production in selected villages in BCP and DCS	113