Name – ETAH (NPP)

Water Supply

1. Assess the Service Level Gap

The first step is to assess the existing situation and service levels gaps for Water Supply (AMRUT Guidelines; para 3 & 6). This will also include existing institutional framework for the sector. AMRUT is focused on improvement in service levels. The zone wise data shall be used in identifying the gaps. These zone-wise gaps will be added to arrive at city level service gaps. While assessing service level gap reply following questions not more than word indicated against each question.

Question: What kind of baseline information is available for water supply system of the city? Detail out the data, information, plans, reports etc related to sector. Is zone wise information available? (75 words)

DPR for Reorganization of water supply in Etah by U.P. jalnigamEtah. Water supply status report is available with U.P.JalNigam, Etah. The status reportconsists of existing water supply system with reference to water supply production, and distribution of water supply lines. In the DPR city has divided into 9 zones consisting 25 wards.

Question: Have you collected census 2011 data? Are you aware of baseline survey data of MoUD? Have you correlated data from these and other sources? (75 words)

Yes. Data of census 2011 is available with Nagar Palika Parishad Etah and the source is NIC. Nagar Palika Parishad Etahis aware of MOUD survey data. The data available is being used as reference to develop the slip.								
Location of source of drinking water Population Total Number of Households Households								
Total Population (Census, 2011) Population- 118517								
	Total	20303	6880					
	Within the premises	16760	5798					
	Near the premises	2555	857					
	Away 988 225							
Departmental data		20303	6880					

What are existing service levels for water supply in the city? What is the coverage of water supply Connections? What is per capita supply of water? How much is the extent of metering? How much is non-revenue water? Provide information in table

Table: Status of Water Supply service levels

Sr. No.	Indicators	Present Status	MOUD Benchmark	Reliability
1	Coverage of water supply connections (6880/20303)	33.89%	100%	D
2	Per capita supply of water (24MLD/0.118)	203 LPCD	135 LPCD	D
3	Extent of metering of water connections	0%	100%	Α
4	Extent of non-revenue water	65%	20%	D
5	Quality of water supplied	90%	100%	D
6	Cost recovery in water supply services	25 %	100%	D
7	Efficiency in collection of water supply related charges	50%	90%	D

Question: What is the gap in these service levels with regard to benchmarks prescribed by MoUD? (75 words)

- 1. Coverage of water supply connections gap is 66.11%
- 2.Per capita supply of water gap is 0 LPCD
- 3.Extend of metering of water connections gap is 100 %
- 4.Extend of non-revenue water gap is 45%
- 5. Quality of water supplied gap 10%
- 6.Cost recovery in water supply services gap is 75 %
- 7.Efficiency in collection of water supply related charges gap is 40%

SOURCE OF WATER AND WATER TREATMENT SYSTEM.

Please provide information in 150 words on the above responding to (however not limited to) following questions.

Question: What is the existing source of water? Is it surface water source or under ground water source? What is the capacity of these sources?

Existing source of water is underground water, total no of tub well is 31.Capacity of these sources is 24 MLD

Question: Is there any treatment provided to water from these sources? How much water is required to be treated daily? What is the treatment capacity installed in the city?

Underground water chlorinationis being done. Treatment capacity of ground water is 24 MLD.

Question: What per capita water supply in LPCD (liter per capita per day) comes out, if you divide total water supply by the total population.?

Source of water Capacity 24 MLD and Per Capita ofWater Supply is = 24 MLD/0.118= 203 LPCD with NRW

DISTRIBUTION ZONES

Please provide information in 150 words on the above responding to (however not limited to) following questions.

Question: City is divided in how many zones for water supply ?

There are 9 zones for water supply in Nagar Palika Parishad Etah.

Table: Zone Wise Coverage of Households

Question: Provide details of total no of Households (HH) in each zone, no of HH with and without water tap connections in the Table

Zone No.	Wards included	Total No. of Households	Households with Water tap Connection	Households without Water tap Connection
1	1	915	294	621
1A	4,10,16,20	2822	1199	1623
2	5,14,12(30%), 21,23,18(25%)	3332	1406	1926
3	8,13,15,19	3475	894	2581
4	11,17	1548	387	1161
5	3,12(70%), 18(75%)	1944	623	1321
6	7,22	1729	635	1094
7	6,24,25	2636	1076	1560
8	2,9	1902	366	1536
Total		20303	6880	13423

STORAGE OF WATER

Please provide information in 150 words on the above responding to (however not limited to) following questions.

Question: What is the total water storage capacity in the city? What is capacity of elevated and ground water reservoirs?

In Nagar Palika Parishad Etah water production is 24 MLD and 11elevatedreservoirs and 4 CWRthe storage capacity is 12000 KL.

Question: In case of surface water, does city need to have ground level reservoirs to store raw treated water?

Not apply in Nagar Palika Parishad Etah

Question: Is water being supplied to consumers through direct pumping or through elevated reservoirs?

In Nagar Palika Parishad Etah water is being supplied to consumers through direct pumping as well as elevated reservoirs.

Question: Is storage capacity sufficient to meet the cities demand?

Yes storage capacity is sufficient to meet the city demand. In Nagar Palika Parishad Etahwater production is 24MLD and storage capacity is 12000 KL. Total city storage capacity demand is 24 MLD/3 =8000KL but availability is 12000KL

DISTRIBUTION NETWORK

Please provide information in 150 words on the above responding to (however not limited to) following questions.

Question: What is the total length of water supply distribution pipe line laid in the city?

The total length of water supplydistribution pipe line is 144.39 KM.

Question: What is the total road length in the city? Is the pipe lines are laid in all streets? Is the objective of universal coverage of water supply pipe line is achieved?

The total road length is 144.39 KM. Pipe lines are not laid in 0 KM and universal coverage of water supply is achieved.

Question: What are the kind of pipe materials used in distribution lines?

PVC,DI, CI and GI pipe materials used in distribution lines.

Question: Provide zone wise details of street length with and without water distribution lines in the Table? Table: Zone Wise length of distribution network

Zone No.	Total Street Length	Street length with water distribution pipe line	Street length without water distribution pipe line
1	5.72 KM	5.72 KM	00 KM

Zone No.	Total Street Length	Street length with water distribution pipe line	Street length without water distribution pipe line
1A	17.58 KM	16.72 KM	0.860 KM
2	29.17 KM	27.45 KM	1.720 KM
3	14.45 KM	13.15 KM	1.30 KM
4	11.46 KM	11.16 KM	0.30 KM
5	18.49 KM	17.76 KM	0.730 KM
6	17.28 KM	16.42 KM	0.860 KM
7	20.87 KM	19.18 KM	1.690 KM
8	9.37 KM	9.37 KM	00 KM
Total	144.39 KM	136.93 KM	7.46 KM

INSTITUTIONAL FRAMEWORK

Please provide information in 150 words on the above responding to (however not limited to) following questions.

Question: Define role and responsibilities in terms of O&M, policy planning, funding, service provision in table

Table: Functions, roles, and responsibilities

Planning and Design	Construction/ Implementation	O&M
UP JAL NIGAM ETAH	JAL NIGAM ETAH	N.P.P. ETAH

Question: How city is planning to execute projects ?

The execution of the projects will be done as per instructions given by the state government as well as MOUD &smaller projects like metering and leakage maintenance will be done by Nagar Palika Parishad ETAH and nodal agency Jal Nigam ETAH.

Question: Shall the implementation of project be done by Municipal Corporation or any parastatal body? Please refer para 8.1 of AMRUT guidelines.

Implementation of the project shall be done by Nagar Palika Parishad ETAH as well as State Level Parastatal Agency U.P. Jal Nigam. Nagar Palika Parishad ETAH will follow the para 8.1 of the AMRUT Guidelines while execution of the project.

2. Bridge the Gap

Once the gap between the existing Service Levels is computed, based on initiatives undertaken in different ongoing programs and projects, objectives will be developed to bridge the gaps to achieve universal coverage. (AMRUT Guidelines; para 6.2 & 6.3, Annexure-2; Table 2.1). Each of the identified objectives will be evolved from the outcome of assessment and meeting the opportunity to bridge the gap.

Question: List out initiatives undertaken in different ongoing programs and projects to address these gaps. For this provide details of ongoing projects being carried out for sector under different schemes with status and when the existing projects are scheduled to be completed? Provide information in Table

S. No	Name of Project	Scheme Name	Cost		Status (as on dd mm 2015)
1	Nil	Nil	nil	nil	Nil

Table: Status of Ongoing/ Sanctioned

Question: How much the existing system will able to address the existing gap in water supply system? Will completion of above will improve the coverage of network and collection efficiency? If yes, how much. (100 words)

In 2009-2011 reorganization of water supply system had completed under UIDSSMT program to achieve full demand and coverage of network. There is no ongoing project.

Question: Does the city require additional infrastructure to improve the services? What kind of services will be required to fulfill the gap?

Yes.City required additional work like regularization of unregistered connections, and to motivate citizens to take connection will increase coverage and reduction of NRW, Improve Quality of Water as well as metering will improve efficiency of collection and operation.

Question: How does the city visualize taking the challenge to rejuvenate the projects by changing their orientation, away from expensive asset replacement programs, to focusing on optimum use of existing assets?

NagarPalika Parishad ETAH will make its people aware of the importance of drinking water. Nagarpalika Parishad ETAH will make efforts by meetings & registering water connections by advertisements.

Question: Has city conducted assessment of Non Revenue Water? If yes, what is the NRW level? Is city planning to reduce NRW?

City has not conducted any assessment related to NRW Nagar Palika Parishad ETAH have approximate NRW level is 65 %

Question: Based on assessment of existing infrastructure and ongoing / sanctioned projects, calculate existing gaps and estimated demand by 2021 for water supply pipe network, number of household to be provided with tap connections, and required enhancement in capacity of water source/ treatment plant (MLD). Gaps in water supply service levels be provided as per Table

Component	2015			2021	
	Present	Ongoing	Total	Demand	Gap
Source	24 MLD	-	24 MLD	19.2 MLD	Surplus
Treatment capacity	24MLD	-	24 MLD	19.2 MLD	Surplus
Elevated Storage capacity	12000KL	-	12000KL	6400 ML	Surplus
Distribution network coverage	144.39 KM	-	136.93K M	144.39 KM	7.46 KM

OBJECTIVES

PBased on above, objectives will be developed to bridge the gaps to achieve universal coverage. While developing objectives following question shall be responded so as to arrive at appropriate objective.

Please provide List out objectives to meet the gap in not more than 100 words.

Question: Does each identified objectives will be evolved from the outcome of assessment?

- HH authorization of illegal connectivity for 13423 households.
- Universal Coverage by Regularizing of 1255Household and 13423 house connection.
- Reduction of NRW by Leakage Detection
- Improve the quality of Water through establishment of Lab and implementation of online water testing and Monitoring System
- Efficiency of charges collection-. Metering system in water supply system and online billing, tracking system & spot billing machine.

Question: Does each objective meet the opportunity to bridge the gap?

3. Examine Alternatives and Estimate Cost

The objective will lead to explore and examine viable alternatives options available to address these gaps.. These will include out of box approaches. (AMRUT Guidelines; Para 6.4 & 6.8 & 6.9). This will also include review of smart solutions. The cost estimate with broad source of funding will be explored for each. While identifying the possible activities, also examine the ongoing scheme and its solutions including status of completion, coverage and improvement in O&M. Please provide information on the above responding to (however not limited to) following questions.

Question: What are the possible activities and source of funding for meeting out the objectives? (75 words)

The funding for meeting out the each objective will 50% from AMRUT and remaining 50% from state and Nagalpalika Parishad ETAH.

Question: How can the activities be converged with other programme like JICA/ ADB funded projects in the city etc? (100 words)

There are no ongoing project under JICA/ADB

Question: What are the options of completing the ongoing activities? (75 words)

There is no ongoing project.

Question: How to address the bottlenecks in the existing project and lessons learnt during implementation of these projects? (75 words)

In Nagar Palika Parishad ETAH there is a staff shortage for running the project and focusing toward enhancement of coverage. During the implementation of water supply scheme awareness among public was most challenging activities.

Question: What measures may be adopted to recover the O&M costs? (100 words)

Nagar Palika Parishad ETAH will minimize non-revenue water by regularizing unregistered water connections & make more efforts from collection staff & introducing metering system & automation of tube wells.

Question: Will metering system for billing introduced?

Yes. Nagar Palika Parishad ETAH will introduce metering system for billing under AMRUT scheme.

Question: Whether reduction in O&M cost by addressing NRW levels be applied? (75 words)

By regularizing of water connection by Introduce metering of water connections, improve the collection efficiency.

Question: Does each objective meet the opportunity to bridge the gap?

YES.

YES,

THE ALTERNATIVE ACTIVITIES TO MEET THESE ACTIVITIES BE DEFINED AS PER TABLE

Sr. No.	Objective	Activities	Cost (Cr)	Financing Source
1	To achieve the universal	House connection 1698 near the premises *5359 Rs	.91cr	AMRUT/State and ULBs
	coverage	Laying of Pipe line in uncovered areas 7.46 KM X 0.25Cr	1.86 cr	AMRUT/State and ULBs
2	To make the system efficient	Leakage detection and maintenance 400* 2500	0.1 Cr	AMRUT/State and ULBs
by reduction of NRW water		Replacement of old pipe line 10 KM X 0.25 Cr	2.50 Cr	AMRUT/state and ULB
3	To improve the quality of water	Establishment/rehab of water testing lab and implementation of online water testing & monitoring systems and water testing van	0.50 Cr	AMRUT/State and ULBs
4	Efficiency of charges collection	Metering system in water supply system, and online billing, tracking system & spot billing machine	0.90 Cr	AMRUT/State and ULBs
	Total	Household Level Metering 20303 HH X2500=	5.07 Cr	

4. Citizen Engagement

ULBs will organize and conduct city level citizen consultation and receive feedback on the suggested alternatives and innovations. Each alternative will be discussed with citizens and activities to be taken up will be prioritized to meet the service level gaps. ULB will prioritize these activities and their scaling up based on the available resources. (AMRUT Guidelines; Para 6.6, 6.7 & 7.2). Please explain following questions in not more than 200 words detailing out the needs, aspirations and wishes of the local people.

Question: Has all stakeholders involved in the consultation?

Nagar Palika Parishad ETAH passes the proposals which are put up by ward members. Thus all stakeholders involve in the consultations on 25 June 2015

Question: Has ward/ zone level consultations held in the city?

In Nagar Palika Parishad ETAH ward/zone level consultations has held under the chairmanship of ward members on 2nd October,2015 ward no -25

3rd October,2015 ward no-13

5th October,2015 ward no-16

7th October,2015 ward no-24

8th October,2015 ward no-04

9th October,2015 ward no-10

Question: Has alternative proposed above are crowd sourced?

No,

Question: What is feedback on the suggested alternatives and innovations?

90% of the people are agreed to regularization of connection and improvement of quality of water supply & metering of water connections.

Question: Has alternative taken up for discussions are prioritized on the basis of consultations? Yes.

Question: What methodology adopted for prioritizing the alternatives?

After the consultation made in Nagar Palika Parishad ETAH board meetings as the discussion regularization of water connections ,leakage maintenance, metering of water connections, establishment of Lab.

5. Prioritize Projects

Based on the citizen engagement, ULB will prioritize these activities and their scaling up based on the available resources to meet the respective objectives. While prioritizing projects, please reply following questions in not more than 200 words.

Question: What are sources of funds?

The source of funding of activities shall be: 1. AMRUT, 2. 14th Finance Commission 3. State Government Funds

Question: Has projects been converged with other program and schemes?

There is no other scheme running in the city.

Question: Has projects been prioritized based on "more with less" approach?

Yes the projects are being prioritized based on "more with less" approach universal coverage

Question: Has the universal coverage approach indiated in AMRUT guidelines followed for prioritization of activities?

YES

6. Conditionalities

Describe in not more than 300 words the Conditionalities of each project in terms of availability of land, environmental obligation and clearances, required NOC, financial commitment, approval and permission needed to implement the project.

Public awareness to increase the coverage of water supply, Augmentation of water supply system No need of Land, environment clearance and NOC for meet the GAP for universal coverage and quality of water

7. Resilience

Required approvals will be sought from ULBs and competent authority and resilience factor would be built in to ensure environmentally sustainable water supply scheme. Describe in not more than 300 words regarding resilience built in the proposals.

Disaster and environmental related factor will be considered while preparation of DPRs

8. Financial Plan

Once the activities are finalized and prioritized after consultations, investments both in terms of capital cost and O&M cost has to be estimated. (AMRUT Guidelines; para 6.5) Based on the investment requirements, different sources of finance have to be identified. Financial Plan for the complete life cycle of the prioritized development will be prepared. (AMRUT Guidelines; para 4, 6.6, 6.12, 6.13 & 6.14). The financial plan will include percentage share of different stakeholders (Centre, State and City) including financial convergence with various ongoing projects. While preparing finance plan please reply following questions in not more than 250 words

Question: How the proposed finance plan is structured for transforming and creating infrastructure projects?

As per the guidelines of the AMRUT, the structured plan of the project will be developed. The share of State and ULB will be decided in High power committee.

Question: list of individual projects which is being financed by various stakeholders?

There is no such individual project.

Question: Has financial plan prepared for identified projects based on financial convergence and consultation with funding partners?

Yes, financial plan prepared for identified projects are based on financial convergence and consultation with funding partners. GOI, State and ULB

Question: Is the proposed financial structure is sustainable? If so then whether project has been categorized based on financial considerations ?

Yes, the proposed financial structure is sustainable and project has been categorized based on financial considerations.

Question: Have the financial assumptions been listed out ?

Yes, financial assumptions have been listed out

Question: Does financial plan for the complete life cycle of the prioritized development?

Yes, financial plan has been done for the complete life cycle of the prioritized development

Question: does financial plan include percentage share of different stakeholders (Centre, State, ULBs)

Yes, financial plan include percentage share of different stakeholders (Centre, State and ULB)

Question: Does it include financial convergence with various ongoing projects. No.

Question: Does it provide year-wise milestones and outcomes ?

Yes, year-wise milestones and outcomes have been provided.

DETAILS IN FINANCIAL PLAN SHALL BE PROVIDED AS PER TABLE 8.1, 8.2, 8.3, 8.4 AND 8.5. THESE TABLES ARE BASED ON AMRUT GUIDELINES TABLES 2.1, 2.2, 2.3.1, 2.3.2, AND 2.5.

Table 8.1 Master Plan of Water Supply Projects for Mission period (As per Table 2.1of AMRUT guidelines)

(Amount in Rs. Cr)

S.No.	Objective	Project Name	Priori ty numb er	Year in which to be implement ed	Year in which to be complete d	Estimated Cost Cr
1	To achieve the universal coverage	House connection 1698 near the premises *5359 Rs	1	2016	2017	0.91cr
		Laying of Pipe line in uncovered areas 7.46 KM X 0.25Cr	2	2016	2017	1.865cr
2	To make the system efficient by	Leakage detection and maintenance 400*2500	2	2017	2019	0.1 Cr
	reduction of NRW water	Household Level Metering 20303 HH X2500 Rs				5.08 Cr
		To universal coverage by – Replacement of old pipe line 10 KM X 0.25 Cr				2.5cr

S.No.	Objective	Project Name	Priori ty numb er	Year in which to be implement ed	Year in which to be complete d	Estimated Cost Cr
3	To improve the quality of water	Establishment/rehab of water testing lab and implementation of online water testing & monitoring systems and water testing van	3	2018	2019	0.50 Cr
4	Efficiency of charges collection	Metering system in water supply system, and online billing, tracking system & spot billing machine	4	2018	2020	0.90 Cr
Total						11.85 Cr

MASTER SERVICE LEVELS IMPROVEMENTS DURING MISSION PERIOD

(As per Table 2.2 of AMRUT guidelines)

(Amount in Rs. Cr)

Sr. No.	Objective	Project Name	Physical Components	Change in Serv	vice Levels		Estimated Cost
				Indicator	Existing (As-ls)	After (To- be)	

1	To achieve the universal coverage	House connection 1698 near the premises *5359 Rs Laying of Pipe line in	House connection 1698 near the Laying of Pipe	COVERAGE OF WATER SUPPLY	33.89%	100%	0.91cr 1.86 cr
		uncovered areas 7.46 KM X 0.25Cr	line in uncovered areas 7.46 KM X 0.25Cr				
2	To make the system	Leakage detection and maintenance	400*2500	N.R.W	65%	20%	0.1Cr
	efficient by reduction of NRW water	Replacement of old pipe line 10 KM X 0.25 Cr	0 KM X 0.25 network laying for replacement				2.50 cr
		Household Level Metering 20303 HH X2500 Rs	20303 HH X 2500 Rs				5.08 Cr
3	To improve the quality of water	Establishment/rehab of water testing lab and implementation of online water testing & monitoring systems and water testing van	water testing lab and implementation of online water testing & monitoring systems and water testing van	Quality	90%	100%	0.50
4	Efficiency of charges collection	Metering system in water supply system, and online billing, tracking system & spot billing machine	Metering system in water supply system, and online billing, tracking system & spot billing machine	90%	25%	90%	0.90Cr

Total			11.85Cr

ANNUAL FUND SHARING PATTERN FOR WATER SUPPLY PROJECTS

(As per Table 2.3.1 of AMRUT guidelines)

(Amount in Rs. Cr)

Sr. No.	Objective	NAME OF PROJECT	Total Project Cost	Share				
				GOI	State	U L B	Ot her s	Total
1	To achieve the universal coverage	House connection 1698 near the premises *5359 Rs Laying of Pipe line in uncovered areas 7.46 KM X 0.25Cr	2.775C r	1.3875 Cr	1.3875 Cr			2.775 Cr

2	To make the system efficient by reduction of NRW water	Leakage maintenance, 400*2500 Household Level Metering 20303 HH X2500 Rs Replacement of old pipe line 10 KM X 0.25 Cr	7.68Cr	3.84 Cr	3.84Cr	7.68 Cr
3	To improve the quality of water	Establishment/rehab of water testing lab and implementation of online water testing & monitoring systems and water testing van	0.50 Cr	0.25 Cr	0.25 Cr	0.50 Cr
4	Efficiency of charges collection	Metering system in water supply system, and online billing, tracking system & spot billing machine	0.90 Cr	0.45 Cr	0.45 Cr	0.90 Cr
		TOTAL	11.85cr	5.92	5.92	11.85
				Cr	Cr	Cr

ANNUAL FUND SHARING BREAK-UP FOR WATER SUPPLY PROJECTS

(As per Table 2.3.2 of AMRUT guidelines)9

Sr. No.	Objective	Project	GO I	State			ULB			Co nve rge nce	ot h er s	Tota 1
				14t h FC	Ot he rs	To tal	14t h FC	Ot he rs	Tot al			
1	To achieve the universal	House connection 1698 near the premises *5359	50	-	50	50	-	-	-	-	-	100

Sr. No.	Objective	Project	GO I	State		ULB			Co nve rge nce	ot h er s	Tota 1	
				14t h FC	Ot he rs	To tal	14t h FC	Ot he rs	Tot al			
	coverage	Rs Laying of Pipe line in uncovered areas 7.46 KM X 0.25Cr	%		%	%						%
2	To make the system efficient by reduction of NRW water	Replacement of old pipe line 10 KM X 0.25 Cr, Household Level Metering 20303 HH X2500 Rs Leakage maintenance 400*2500	50 %	-	50 %	50 %	-	-	-	-	-	100 %
3	To improve the quality of water	Establishment/rehab of water testing lab and implementation of online water testing & monitoring systems and water testing van	50 %	-	50 %	50 %	-	-	-	-	-	100 %
5	Efficiency of charges collection	Metering system in water supply system,and online billing, tracking system & spot billing machine	50 %	-	50 %	50 %	-	-	-	-	-	100 %

YEAR WISE PLAN FOR SERVICE LEVELS IMPROVEMENTS

(As per Table 2.5of AMRUT guidelines)

Objective	Proposed Projects	Project Cost	Indicator	Basel ine		Annual (Incremet from the Baseline			Targets e Value)		
					FY 2016		FY 2017	FY 2018	FY 201	FY 202	
					H1	H2			9	0	

Objective	Proposed Projects	Project Cost	Indicator	Basel ine	Ann (Inc		from th	e Baselin		Targets e)
					FY 2010	6	FY 2017	FY 2018	FY 201	FY 202
					H1	H2			9	0
To achieve the universal coverage	House connection 1698 near the premises *5359 Rs Laying of Pipe line in uncovered areas 7.46 KM X 0.25Cr	13.97C r	100% Coverage of water supply	33.87			80%	100%		
To make the system efficient by reduction of NRW water	Replacement of old pipe line 10 KM X 0.25 Cr, Household Level Metering 20303 HH X2500 Rs Leakage maintenance 400*2500	7.68 Cr	Non revenue water 20%	65%			45%	30%	20%	
To improve the quality of water	Establishment/rehab of water testing lab and implementation of online water testing & monitoring systems and water testing van	0.50 Cr	100%	90%				95%	100 %	
Efficiency of charges collection	Metering system in water supply system,and online billing, tracking system & spot billing machine	0.90 Cr	90%	25%				50%	75%	90%
	TOTAL	11.85 Cr								