

City Name – Saharanpur

## Sewerage and Septage Management

### 1. Assess the Service Level Gap

The first step is to assess the existing situation and service levels gaps for Sewerage (AMRUT Guidelines; Para 3 & 6). This will also include existing institutional framework for the sector. For this City has to review all policy, plans, scheme documents etc. to identify service level gaps and hold discussions with officials and citizens. 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 sewerage system of the city? Detail out the data, information, plans, reports etc related to sewerage available with city? Is zone wise information available? Have you correlated your data with census 2011 data? (100 words)

Master plan of 2021 of Saharanpur is with Development Authority. DPR of sewerage project was prepared in June 2010, is with U.P jal nigam and with Nagar Nigam Saharanpur no work executed in that project.  
Record of sewer system and STP is with Nagar Nigam Saharanpur.  
Yes, we have collected and correlated that data with census 2011.

Total Population (Census, 2011)	Location of source of sewerage system population	Total number of Households	Total number of households with toilets
<b>Total Population – 705478</b>			
	Within the premises	117416	111625
	Near the premises	7727	5665
	Away	1013	457
	Total	126156	117747
Departmental Data (2015)	Population – 769638	80070	78468*
Departmental Data (2017)		80356	77226

\* This value of total number of household with toilets is as per Swachh Bharat Mission

Waste water outlet connected (2011)	Close Drainage	Open Drainage	No Drainage
Number of HH	35243	82873	8040
Departmental Data (2015)	HH Connected to existing sewerage		16598
Departmental Data (2017)	HH Connected to existing sewerage		16598

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What are existing services levels for sewerage for coverage of sewerage network services, efficiency of collection of sewerage and efficiency in treatment. Provide information in table

**Table 2.1: Status of sewerage network and Service Levels**

Sr. No.	Indicators	Status of Service Level (In %)		MOUD Benchmark	Reliability	
		2015	2017		2015	2017
1	Coverage of latrines (individual or community)	98.00%	96.10%	100%	B	B
2	Coverage of sewerage network services	7.42 %	7.42 %	100%	B	B
3	Efficiency of collection of sewerage	38%	38%	100%	A	A
4	Efficiency in Treatment: Adequacy of sewerage treatment capacity	38%	38%	100%	A	A

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

GAP IN SERVICE LEVELS IS AS UNDER:	YEAR 2015	YEAR 2017
Gap in coverage of latrines (individual or community)	2.00%	03.9%
Gap in coverage of sewerage network services.	92.58%	92.58%
Gap in efficiency of collection of sewerage.	62%	62%
Gap in efficiency in treatment: Adequacy of sewerage Treatment capacity.	62%	62%

**Question: Does city has separate drainage system or sewer lines take care of storm water? (50 words)**

Yes, there is separate drainage system. Sewer lines also carry drainage water.

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Coverage of latrines (individual or community), Please provide information in Table 2.2 A

Zone No.	Total number of HH a	Total number of HH with individual or community toilets within walking distance (b)		Coverage of latrines (%), (b/a)*100%	
		2015	2017	2015	2017
1	20090	19914	19414	99.12	96.63
2.	33364	33154	32630	99.37	97.80
3.	20174	19350	19150	95.91	94.92
4.	6442	6050	6032	93.91	93.63
Total	80070	78468	77226	97.99	96.44

### SEWERAGE NETWORK AND COLLECTION OF SEWERAGE

Question: How much of the area of the city is covered by sewerage network? What is the status of household connections in each zone? What are the areas covered under Septage? Provide information in Table

**Table: Zone Wise Coverage of Households**

There is 7.42% sewerage network in the city with 20.72% households are connected with sewer lines. 79.35 houses are connected with septic tank.

Zone No.	Total No. of Households(HH) (a)	Households with Sewerage Network (b)		Coverage of sewerage network services (b/a)*100%	
		2015	2017	2015	2017
1	20090	2388	2388	11.88%	11.88%

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Zone No.	Total No. of Households(HH) (a)	Households with Sewerage Network (b)		Coverage of sewerage network services (b/a)*100%	
		2015	2017	2015	2017
2	33364	14210	14210	42.59%	42.59%
3	20174	---	---	0%	0%
4	6442	---	---	0%	0%
Total	80070	16598	16598	20.72%	20.72%

**Question: Are there any areas where sewer lines have been laid but still households are not connected to sewer lines? Are there any areas where toilets may be connected to sewer lines but kitchen or bathroom waste is not connected to sewerage system? (75 words)**

No, HH connected with sewer line also carry kitchen waste in it.

**Question: Is there any systematic and organized method to collect and treat waste from septic tanks? What is the duration of cleaning of septic tanks (monthly, quarterly, semiannually or annually)? Indicate status of overflows of septic tanks, either in the nearby drains /open fields/ sewerage lines etc.? (75 words)**

No. Individual HH owner got his septic tank cleaned himself. Septic tank over flow is connected with drainage system.

**Question: What is the situation of O&M of the existing sewerage system? Does the city has routine maintenance system or breakdown maintenance system? What is the duration of cleaning of sewer lines (monthly, quarterly, semiannually or annually)? Indicate infrastructure available for O&M of the sewerage system i.e sewer jetting machines etc? (100 words)**

Nagar Nigam has routine maintenance system of sewer line. Sewer line are cleared yearly. For maintenance of sewer lines two number of jetting cum suction machine and three number of suction machine.

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## SEWAGE TREATMENT SYSTEM

Question: Does city has Sewage Treatment Plant (STP)? Which areas are covered under each of the STPs? Provide details in Table 2.3

Table 2.3: Status of Existing STPs

There is one STP in the city.

Sr. No.	Location	Capacity (MLD)	Inflow in the STP (MLD)	Efficiency in %
1.	Praduman nagar	38 MLD	40 MLD	95%
Total		38 MLD	40 MLD	95%

Question: Does decentralized waste treatment systems exist or planned in the city? If yes, provide details (75 words)


No, Decentralized waste treatment is being planned.


Question: How much of sewerage is generated in the city? How much of this sewerage generated reaches the STPs? What is the Biological Oxygen Demand (BOD) of incoming and outgoing sewage of each STP? (100 words)


At present sewerage generated in city is – 86 MLD out of which only 40 MLD reaches to STP through sewerage system. BOD of incoming sewage varies from 130 to 210 mg/l. BOD of outgoing treated sewerage water varies from 26 to 31 mg/l.

Question: Is treated sewage being reused or recycled? Is treated water being used for irrigation or industrial purpose? Does the option of power generation being explored? (75 words)

No, treated sewage flows into river Dhamola.  
Yes, dual fuel generator is installed and runs 4 to 5 hours daily.

  
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## INSTITUTIONAL FRAMEWORK

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

**Table: 2.4: Functions, roles, and responsibilities**

Planning and Design O&M	Construction/ Implementation	
UP Jal Nigam (Yamuna Action Plan)	UP Jal Nigam (Yamuna Action Plan)	Nagar Nigam, Saharanpur

**Question: Please also detail that how city is planning to execute projects. Shall the implementation of project be done by Municipal Corporation or any parastatal body? (75 words)**

Planning, designing, implementation of sewerage projects is to be carried out by U.P JAL NIGAM

## 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 sewerage system under different schemes with status and when the existing projects are scheduled to be completed? Provide information in Table**

**Table: Status of Ongoing/ Sanctioned (Present Status)**

Sr.No.	Name of Project	Scheme Name	Cost in Rs Crore	Month of Completion	Status (as on)
1.	Nil	Nil	Nil	Nil	Nil

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

There is no ongoing project in the city.

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

Yes. For filling the gap in sewerage system project prepared by U.P Jal Nigam (i.e. laying of new sewer lines, construction of new STP, SPS, Seepage management.

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?

By changing the orientation main focus is to enhance HH sewer connection. To have seepage treatment system in the area which is covered by septic tank?

Provide information in Table 2.6

Table 2.6: Demand Gap Assessment

Component	2015	2017			2021	
		Ongoing projects	Present Status 2017	Total	Demand	Gap
Sewerage network (km)	66 KM	Nil	66 KM	66 KM	890 KM	824 KM
No of Households covered under sewerage system	16598 HH	Nil	16598 HH	16598 HH	161507 HH	144989 HH
No of HH covered in Septage Management	70622	Nil	70622	70622	30,000	30,000
Sewerage Treatment Plant (MLD)	38 MLD	Nil	38 MLD	38 MLD	109 MLD	71 MLD

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## OBJECTIVES

Based on assessment of existing infrastructure and ongoing / sanctioned projects, calculate existing gaps and estimated demand by 2021 for sewerage network, number of household to be provided with connections, and required enhancement in capacity of STP (MLD), area to be covered under seepage management. Based on the demand and gap assessment, evolve objectives to achieve bridging these gaps.

Question: Does each identified objectives will be evolved from the outcome of assessment? (75 words)

Yes,

The main objective of Nagar Nigam Saharanpur is :

1. IEC to promote individual TOILETS CONSTRUCTION AT HOUSEHOLD LEVEL and public toilets connect 1780 HH + 59 community toilets with septic tank under SBM.
2. To cover 114000HH with sewer connection with new sewer line 600 KM.
3. Seepage management for 30,000 HH with construction of bio-digester.
4. IEC to promote for regular cleaning of septic tank through Nagar Nigam.
5. Purchasing of sewer suction and machine. 10 nos. 5 cubic meter each.
6. Replacement of existing damaged/undersize sewer line (30 KM).
7. Construction of 84 MLD sewer treatment plant along with IPS/MPS.
8. To replace pumping plant of existing 38 MLD/STP and IPS/MPS.

Question: Does each objective meet the opportunity to bridge the gap? (75 words)

Yes.

### 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 alternative. While identifying the possible activities, also examine the ongoing scheme and its solutions including status of completion, coverage and improvement in O&M. Please reply following questions in not more than 200 words.

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

The main objective of Nagar Nigam Saharanpur is :

1. IEC to promote individual TOILETS CONSTRUCTION AT HOUSEHOLD LEVEL and public toilets connect 1780 HH + 59 community toilets with septic tank under SBM.
2. To cover 114000HH with sewer connection with new sewer line 600 KM.
3. Seepage management for 30,000 HH with construction of bio-digester.
4. IEC to promote for regular cleaning of septic tank through Nagar Nigam.
5. Purchasing of sewer suction and machine. 10 nos. 5 cubic meter each.
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**Question: How can the activities are converged with other programmers like JICA/ ADB funded projects in the city.**

There is no ongoing project under JICA/ADB

**Question: What are the options of completing the ongoing activities?**

There are no ongoing activities.

**Question: How to address the bottlenecks in the existing project and lessons learnt during implementation of these projects?**

To overcome the bottle necks of previous projects in the present project HH sewer connection and bio-digester system for septic tank are taken into account.

**Question: Has projects includes O&M of sewerage system?**

O&M of sewerage system for five years is taken.

**Question: What measures may be adopted to recover the O&M costs? Can the option of sale of treated wastewater be applicable to recover the O&M cost.**

To recover O&M cost for sewerage system user charge for sewer connection and septic tanks are being imposed.

**Question: What are innovative alternative solutions explored in achieving objectives?**

Bio-digester system for 30,000 septic tanks of HH.

**Question: Are different options of PPP such as Design-build-Operate-Transfer (DBOT), Design Built Finance Operate and Transfer (DBFOT) are considered?**


Yes, it will be explored during preparation of DPR.


**Question: How the recycle and reuse of water will be done? How much quantity of treated water may be reused?**


Possibility of using treated sewerage water for irrigation purpose is being explored.

**Question: Have you analyzed best practices and innovative solutions in sewerage sector? Is any of the practice being replicated in the city?**

No

  
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**Question: Have you identified the areas for decentralized waste treatment system? Explore the approaches for Septage management that is People Public Private Partnership (PPPP) model or replacing septic tanks by bio-digesters, bioremediation etc.**

Yes, through IEC NAGAR NIGAM SAHARANPUR will promote replacing septic tank by Bio-digester.


The alternative activities to meet these activities are defined as per Table 2.7  
Table 2.7 Alternative Activities to Meet Objectives


SL No.	Objective	Activities	Financing Source
1.	To achieve universal coverage of latrines	Construction of HH and community toilet.  Community septic tanks bio-digesters.	SBM  AMRUT
2.	To coverage of sewerage network	Laying of sewerage network 824 KM in uncovered area with HH connection	AMRUT
3.	To increase collection efficiency	1. Replacement of existing damaged/under size sewer line. 2. To purchase 10 number of sewer jetting cum suction machine.	AMRUT
4.	To increase efficiency.	Construction of 84 MLD/STP alone with OPS/MPS	AMRUT
5.	To make system energy efficient	Replacement of pumping plant of existing STP/IPS/MPS.	AMRUT


#### 4. Citizen Engagement

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 reply following questions in not more than 200 words.

**Question: Has all stakeholders involved in the consultation?**

  
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Yes, all stockholders are evolved while preparing the projects. Discussions were held citizen groups, ex co-operators, public representatives, GO.

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

YES, Zone level consultations with group of people, ex corporate was held from 29.09.2015 to 07.10.2015.

**Question: Has alternative proposed above are crowd sourced?**

Alternatives proposed above are not crowd sourced.

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

Citizens are agreed to construction of individual & community latrines, transportation and treatment of waste by bio digester, lying of new sewer line in the uncovered area and discharge treated sewerage water into Dhamola river.

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

Yes, firstly construction of individual & community latrines & transportation and treatment of waste by bio-digester.

**Question: What methodology adopted for prioritizing the alternatives?**

In consultation with ex cooperators and departmental officers.

## 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?**

SBM, AMRUT.

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

No

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

Yes,

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

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Yes.

## 6. Conditionality

Describe the Conditionality 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. Please reply following questions in not more than 100 words.

Land is to be available for construction of STP/IPS/MPS. NOC is required for construction of STP/IPS/MPS. NOC is required for construction of STP. For lying of sewerage network no NOC is required.

## 7. Resilience

Required approvals will be sought from competent authority and organizations. The resilience factor would be built in to ensure environmentally sustainable sewerage scheme. Please reply following questions in not more than 100 words.

Yes. 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 200 words

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

As per the guidelines of the AMRUT, the structured plan of the project will be developed. In which 50% from GOI and remaining by state and ULB.

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

**Sewer & sanitation scheme financed by GOI & state Government project will be financed as per AMRUT guidelines.**

**Question: Does it include financial convergence with various ongoing projects.**

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

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

Yes, year wise mile stone and out comes have been provided and it will be given in DPR.

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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 Sewerage Projects for Mission period (As per Table 2.1of AMRUT guidelines)**  
(Amount in Rs. Cr)

S. No.	Project Name	Priority number		Year in which to be implemented	Year in which to be completed	Estimated Cost	DPR Cost
		2015	2017				
1	Saharanpur sewerage scheme zone -1, sub zone-1 (sewerage network-60 Km, old sewer line replacement 14 Km and 9000 Sewer House Connections)	1	1	2017	2019	--	108.63 Cr
2	COMMUNITY SAPTIK TANKS AND BIO-DIGESTERS 30,000 X 4810	1	5	2017	2020	14.43 Cr	--
3	Coverage by sewerage network 114000 HH 764 Km X 161 Lacks/Km	1	3			1230 Cr.	
4	MPS 84 MLD 84 MLD*80Lacks/MLD	2	4	2017	2019	67.20 Cr	
5	STP 84 MLD 84 MLD*127Lacks/MLD	2	2	2017	2019	106.68 Cr	

  
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S. No.	Project Name	Priority number		Year in which to be implemented	Year in which to be completed	Estimated Cost	DPR Cost
		2015	2017				
6	To make system energy efficient	2	6	2017	2018	17.84 Cr.	
TOTAL						1558.22 Cr.	

### 8.2 DETAILS OF PRIORITIZED PROJECTS PREPARED UNDER AMRUT DURING CURRENT FY

(As per Table 2.2 of AMRUT guidelines)

(Amount in Rs. Cr)

Sr. No	Project Name	Physical Components	Change in Service Levels				Estimated Cost	DPR Cost
			Indicator	Previous (2015)	Existing (2017)	After (2020)		
1	Saharanpur sewerage scheme zone -1, sub zone-1	Sewerage network-60 Km, old sewer line replacement 14 Km	100%	7.42%	7.42%	100%	--	108.63 cr.
2	Community septic tanks and bio-digesters	Community septic tanks and bio-digesters 30,000 X 4810					14.43 Cr.	
3	Coverage by sewerage network	Laying of 764 Km of sewer line					1230	
4	To increase treatment	Construction of IPS/MS of 84 MLD	100%	38%	38%	100%	67.20 Cr.	

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	capacity							
5	To increase treatment capacity	Construction of STP 84 MLD	100%	38%	38%	100%	106.68 Cr.	
6.	To make system energy efficient	Strengthen of old STP etc.					17.84 Cr.	
Total							1558.22 Cr.	


### ANNUAL FUND SHARING PATTERN FOR SEWERAGE PROJECTS

(As per Table 2.3.1 of AMRUT guidelines)

(Amount in Rs. Cr)

Sr. No.	Name of Project	Total Project Cost	Share				Total
			GOI	State	ULB	Others	
1.	Saharanpur sewerage scheme zone -1, sub zone-1	108.63	54.31 Cr	32.58 Cr	21.72 Cr		108.63 Cr (DPR COST)
2.	Community septic tanks and bio-digesters	14.43 Cr	7.21 Cr.	4.32 Cr.	2.88Cr	-----	14.43 Cr.
3.	Coverage by sewerage network	966.00 Cr.	483 Cr.	289.8 Cr.	193.2Cr	-----	966.00 Cr.
4.	To increase treatment	67.20	33.6 Cr.	20.16 Cr.	13.44	-----	67.20 Cr.

  
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Sr. No.	Name of Project	Total Project Cost	Share				
			GOI	State	ULB	Others	Total
	capacity	Cr.			Cr		
5.	To increase treatment capacity	106.68 Cr.	53.34 Cr.	32.00 Cr.	21.33 Cr	-----	106.68 Cr.
6.	To make system energy efficient	17.84 Cr.	8.92 Cr.	5.35 Cr.	3.56 Cr	-----	17.84 Cr.
<b>Total</b>		<b>1558.22 Cr.</b>	<b>779.11 Cr.</b>	<b>467.66 Cr.</b>	<b>311.64 Cr</b>	<b>-----</b>	<b>1558.22 Cr.</b>

**ANNUAL FUND SHARING BREAK-UP FOR SEWERAGE PROJECTS**

(As per Table 2.3.2 of AMRUT guidelines)

Sr. No.	Project	GO I	State			ULB			Convergence	Others	Total
			14th FC	Others	Total	14th FC	Others	Total			
1.	Saharanpur sewerage scheme zone -1, sub zone-1	50%	----	30%	30%	----	20%	20%	-----	----	100%
2.	Community septic tanks and bio-	50%	----	30%	30%	----	20%	20%	-----	----	100%

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Sr. No.	Project	GO I	State			ULB			Convergence	Others	Total
			14th FC	Others	Total	14th FC	Others	Total			
	digesters										
3.	Coverage by sewerage network	50%	----	30%	30%	----	20%	20%	-----	----	100%
4.	To increase treatment capacity	50%	----	30%	30%	----	20%	20%	-----	----	100%
5.	To increase treatment capacity	50%	----	30%	30%	----	20%	20%	-----	----	100%
6.	To make system energy efficient	50%	----	30%	30%	----	20%	20%	-----	----	100%

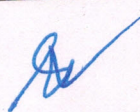
**YEAR WISE PLAN FOR SERVICE LEVELS IMPROVEMENTS**

(As per Table 2.5 of AMRUT guidelines)

Proposed Projects	Project Cost	Indicator	Baseline 2015	Annual Targets (Increment from the Baseline Value)					
				FY 2016	FY	FY	FY	FY	

  
 प्रमुख अधिकारी (जल)  
 नगर निगम सहारनपुर

  
 महाप्रबंधक (जल)  
 नगर निगम सहारनपुर

  
 Project Engineer  
 Construction Unit, U.P. Jal Nigam  
 Saharanpur



				H1	H2	2017	2018	2019	2020
Community septic tanks and bio-digesters	14.43 Cr	7.42 %	100%	-----	-----	20%	60%	80%	100%
Coverage by sewerage network	966.00 Cr			-----	-----				
To increase treatment capacity	67.20 Cr	38%	100%	-----	-----	50%	80%	100%	-----
To increase treatment capacity	106.68 Cr	38%	100%	-----	-----	50%	80%	100%	-----
To make system energy efficient	17.84 Cr	-----	-----	-----	-----	80%	100%	-----	-----

*[Handwritten signature]*

सहायप्रबन्धक (जल)  
नगर निगम सहारनपुर

*[Handwritten signature]*  
Project Engineer  
Construction Unit, U.P. Jal Nigam  
Saharanpur