City Name – Mathura-Vrindavan

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)

A general information has been obtained from records of municipal corporation and Jal Nigam. A general survey has been conducted by municipal corporation to cover the number of house hold present within the municipal limit. At present Mathura-Vrindavan Nagar Nigam is divided into five sewerage zones. Yes, the data has been correlated with census 2011 data.

Total Population (Census,	Location of source of drinking water Population	Total Number of Households	Total Number of Households with			
2011)	Total Population -349336 toilets					
	Within the premises					
		42908	40945			
	Near the premises	8084	-7			
		0004	6093			
	Away	4094	(
	Total	4004	2669			
	Total number of households	55068				
Departmental Data	R- I ii		49707 80046			
(2015)	Population-372780	82246				
Departmental Data (2017						
NPP)	Population- 393420	92040				
		82246	79595			
Departmental Data	Population- 626808					
(2011)	- 1- diacion- 020000	90942	83223			
Mathura - Vrindavan)		数是一种,我们是是自己的				

Project Manager

Drainage & Solverage Unit

U. P. Jal Nigam, Mathura

Waste water outlet connected	Close Drainage	Open Drainage	No Drainage
Number of HH	11218		- Juniage
The state of the s	11410	71028	
Departmental Data	17550		•
2017	17553	64693	
Departmental Data			-
lathura - Vrindayan	24053 existing connection.*The house	66289	

^{*} As per ULB data and number of actual existing connection.*The house hold information of the 51 village will be included in the above

What are existing service 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.	I I I I I I I I I I I I I I I I I I I	Existing Service Level	NPP	NPP Mathura		Mathura - Vrindavan	
		S	Existing Service Level (2017)	Reliability	Existing Service Level (2017)	Reliability	Benchmark
1	Coverage of latrines (individual or community)	97%	96.77%	C	91.51%	С	100%
2	Coverage of sewerage network services	13.64%	21.34%	В	26.44%	C	100%
3	Efficiency of collection of sewerage	13%	26.69%	С	30.02%	С	100%
	Efficiency in Treatment: Adequacy of sewerage treatment capacity	80%	56.04 %	C	63.54%	C	100%

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

Sr.No	Indicator	Gap 2015			
		Gap 2015	Gap 2017 (Mathura)	Gap 2017 (Mathura - Vrindavan)	
1	Coverage of latrines	3 %	2 220/	· · · · · · · · · · · · · · · · · · ·	
•	(individual or community)		3.23%	8.49%	
2	Coverage of sewerage network	86.36%			
	services	00.30%	78.66%	73.56%	

	Efficiency of collection of sewerage	87%	73.31%	
1	Fff:		. 0.0 1 /0	69.98%
	Efficiency in Treatment:	20%		
Adequacy of sewerage		43.96%	36.46%	
	treatment capacity			

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

Yes, City has separate drainage system.

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

Zone	Total number of HH a	Total number of HH with individual or community toilets within walking distance b	Total number of HH with individual or community toilets within walking distance b (2017)	Coverage of latrines (%), (b/a)*100%	Coverage of latrines (%), (b/a)*100% 2017 data
Masani	17927	17194	16399	95.91 %	
Trans - Yamuna	21200	21200	18900	100 %	91.47% 89.15%
Koyla Alipur	14779	14012	13412	94.81%	90.75%
Masoom Nagar	28340	27640	26040	97.53%	91.88%
Vrindavan	8696	-	8472		71.00 /6
Total	90942	200.10	04/2		97.42%
	30012	80046	83223	88.02%	91.51%

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/Ward Wise Coverage of Households**

There is 5% sewerage network in the city.91.12% household have septic tank.



Zone	Total No. of Households (HH) a	Total No. of Househol ds(HH) a	Households with Sewerage Network b	s with Sewerage	Coverage of sewerage network	2017 coverage o
Masani 179	2015 17927	2017		Network b year 2017	services	network
		17927	1122	1122	(b/a)*100%	services
Trans	21200	21200			6.26%	6.26%
Yamuna		21200	10096	16431	17 (20)	
Koyla	14779	14779			47.62%	77.50%
Alipur	1		-	-		
Masoom	28340	28340				-
Nagar			-	-		
Vrindavan	-	8696				•
Total	82246	90942	-	6500		74 740
There is no data	available s	50,742	11218	24053	13.63%	74.74%
ovided by Tax De	northead Wi	noid Connections	of Soworana AL		20.0070	26.44%

^{**}There is no data available of Household Connections of Sewerage Network, we have taken Sewerage User Charges data as per provided by Tax Department. It is mentioned that in Mathura-Vrindavan only 26.44% area covered with sewer line network.

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 are not connected to sewerage system? (75 words)

214 Km Sewer Line is Existing in Nagar Nigam Mathura-Vrindavan about 32000 HH can be connected in the future.

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)

Currently sewer waste from existing 11218 is treated. However, there is no systematic method to collect sewage from septic tank.

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)

Sewer line is laid currently by Jal Nigam after hand over O & M is done by Nagar Nigam Mathura-Vrindavan. Semi Annually cleaning of sewer is done.

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: There are three operational STPs in Mathura city.



Sr. No.	Location	Capacity (MLD)		n the STP	Efficie	ncy in %
1	Trans Yamuna	(1) 14.50	2015	2017	2015	2017
2	Masani	(2) 16.00	(1) 15.00 (2) 10.00	(1) 6.00 (2) 5.00	81.96%	36.06%
0		13.59	15.00	11.00	110.37%	80.94%
3	Pagal Baba	4.00		2.5		
4	Maat Road Near	8.00		2.5	-	62.50%
	100 bed Hospital TOTAL	2000		3.0	-	37.50%
	IOIAL	56.09	40.00	27.50	90.72%	49.56%

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

Yes, decentralized waste treatment has been planned in the city. The DPR prepared by Jal Nigam proposes to have 5 nos STP for all the remaining zones of the city.

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)

The total sewage generation in the city is approximately 75 MLD. The sewage generated reaches STP is 27.5 MLD. BOD of influent and effluent for various STPs in the city are mentioned below

Name of STDs	various 51 Ps in the city are mentioned below				
	Influent B.O.D.	Effluent B.O.D.			
	206.71	17.65			
	206.71	48.00			
	215.80	52.00			
	181.94	42.00			
Maat Road 8 MLD	181.94	24.87			
	Name of STPs Trans Yamuna 16 MLD Trans Yamuna 14.5 MLD Masani 13.59 MLD Pagal Baba 4 MLD Maat Road 8 MLD	Trans Yamuna 16 MLD 206.71 Trans Yamuna 14.5 MLD 206.71 Masani 13.59 MLD 215.80 Pagal Baba 4 MLD 181.94			

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)

Yes, treated water is used for irrigation purposes.

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	Construction/Implementation	0&M		
UP Jal Nigam	UP Jal Nigam	Nagar Nigam	Mathura-Vrindavan	

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 and execution of Sewerage system will be implemented by UP 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

S.No.	Name of Project	Scheme Name	Cost in Rs Crore	Month of Completion	Status (as on DD MM 2015)
01	Mathura sewerage House Connecting Chamber & Connection Trans Yamuna zone-II project of sewer is on going	AMRUT	55.2257 (with centage)	28-Feb2018	Work in process

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

After completion of ongoing projects under AMRUT scheme a total of 21200 new HH will be connected to

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

Yes, the city needs additional STPs, Sewerage System and House Hold Connection to addressed the gap between existing system and service level bench mark.

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

U.P. Jal Nigam/Nagar Nigam Mathura-Vrindavan are determined to Rehabilitate the existing system and augment its capacity wherever needed and possible, so that the existing system can be put to its

Provide information in Table 2.6

Table 2.6: Demand Gap Assessment,

Component	Status				2021	
	2015	2017	Ongoing projects	Total	Demand	Gap
Sewerage network (km)	18	214	-	214	1305	1091
No of Households covered under sewerage system	10756	6550	14650	31956	108000	97250
No. of HH covered in Septage Management	80046	0	-		-	
Sewerage Treatment Plant (MLD)	13.59	56.09	-	56.09	134.09	78.00

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 septage management. Based on the demand and gap assessment, evolve objectives to achieve bridging these gap.

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

YES,

THE MAIN OBJECTIVE OF N.N.M.V. IS:-

- 1- CONSTRUCTION OF NEW LATRINES 2200HH.
- 2- IEC TO PROMOTE AND CONNECT 21200HH FROM NEW(TRANS YAMUNA ZONE-2) SEWER
- 3- FOR TREATMENT OF EXISTING LATRINES SUCTION MACHINE IS REQUIRED FOR 50290HH
- 4- WE PROPOSED NEW SEWER LINE 1091.0 KM TO COVER MASANI, KOYLA ALIPUR, MASOOM NAGAR ZONE AND NEW ADDED AREA 51 VILLAGES.
- 5- CONSTRUCTION OF 5 NEW STP IN MATHURA WITH E&M WORKS.
- 6- CONSTRUCTION OF RISING MAIN OF 21.5 KM. IN KOYLA ALIPUR, MASOOM NAGAR ZONE AND NEW ADDED AREA 51 VILLAGES.
- 7- UPGRADATION AND RENOVATION OF EXISTING STP IN MASANI, TRANS YAMUNA
- 8- CONSTRUCTION OF 13NOS. NEW PUMPING STATIONS WITH E&M WORKS.
- 9- PROVISION FOR LAND COST, SHIFTING OF SERVICES, POWER CONNECTION, NHAI/RAILWAY CHARGES.



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 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

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

The funding for meeting out the each objective will 50% GOI, 30% GOUP and remaining 20% from

Question: How can the activities be converged with other programmes like JICA/ ADB funded projects in the

Mathura Sewerage House Connecting Chamber & Connection Trans Yamuna Zone-II Project of Sewer is ongoing Under AMRUT Programme

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

- 1- Mathura Sewerage Scheme Trans Yamuna Zone Complete
- 2- Vrindavan Sewerage Scheme Complete
- 3- Mathura Sewerage House Connecting Chamber & Connection Trans Yamuna Zone-li 31%

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

Land acquisition demand and environmental clearances should be done before starting of

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

No.

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.

O&M cost could be recovered by selling the treated wastewater for industrial use.

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

Nagar Nigam Mathura-Vrindavan will explore the possibility of decentralized treatment plant.



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

Treated waste water can be used for irrigation and industrial uses. Approximately 45 MLD of treated waste water can be reuse.

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

Yes, new technologies such as constructed wetlands will be employed in sewerage sector.

Question: Have you identified the areas for decentralized waste treatment system? Explore the approaches for septage management i.e. Public Private Partnership (PPP) model or replacing septic tanks by bio-

Yes, we are trying to establish decentralized fecal Sludge Treatment Plant for initially for 4-5

The alternative activities to meet Table2.7 Alternative Activities To Meet Objectives these activities be defined as per Table 2.7

SL No.	Objective	Activities	Financing Source
1	Construction of new latrines 2200HH	Construction of Toilets	SBM
2	IEC to promote and connect 21200HH from new(trans Yamuna zone-2) sewer line	Construction	AMRUT/ State Govt.
3	for treatment of existing latrines suction machine is required for 50290HH to transport waste to STP	New machinery	AMRUT/ State Govt.
4	Up gradation and renovation of 3 STP in Masani, Trans Yamuna zone & Vrindavan with E&M Works	Upgradation and capacity building of existing STP	NAMAMI GANGE
5	construction of 5 new STP in Nagar Nigam Mathura-Vrindavan with E&M Works	New STP	AMRUT/ State Govt.
	we proposed new sewer line 1091.0 km to cover Masani, Koyla Alipur, Masoom Nagar Zone & new added area 51 villages	New sewer line	AMRUT/ State Govt.
	Construction of Rising Main of 21.5 Km. in Koyla Alipur, Masoom Nagar Zone & new added area 51 villages	New Rising Main	AMRUT/ State Govt.

SL No.	Objective	Activities	Financing
8	Construction of 13 nos. New Pumping Stations with E&M Works	New Pumping	Source AMRUT/ State
9	Provision for Land cost, shifting of	Stations	Govt.
	services, power connection, NHAI/Railway Charges	Additional work	AMRUT/ State Govt.

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?

Nagar Nigam Mathura-Vrindavan passes the proposals which are put up by ward members, citizens and parastatal agency.

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

Yes, in Nagar Nigam Mathura-Vrindavan Ward/Zone Level Consultations has Held Under The Chairmanship of Ward Members in Head Office of Nagar Nigam Mathura-Vrindavan.

Question: Has alternative proposed above are crowd sourced?

Yes, Suggestions and views of the crowd are taken into consideration.

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

Most of the people are agreed to construction of individual & community latrines, and periodically cleaning by suction machine.

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

Yes,

Question: What methodology adopted for prioritizing the alternatives?

Priorities are made as per suggesting made by common public, U.P. Jal Nigam and Nagar Nigam Mathura-Vrindavan.

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 4. SBM 5. ULB

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

Yes, IEC & construction of individual and community latrines converge with SBM.

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 through IEC activities.

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

Yes, universal coverage approach indicated in AMRUT guidelines followed for prioritization of activities.

6. Conditionalities

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

Yes, transportation of waste by sewer suction machine & treatment by STP there will be need of land and NOC from concerning deptt.

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?

Sewer & sanitation scheme financed by GOI, GOUP & ULB project will be financed as per amrut guidelines.



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

As per the guidelines of the AMRUT, the structured plan of the project will be developed. in which 50% from GOI, 30% GOUP and remaining 20% ULB.

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, GOUP & ULB.

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

Yes,

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.	r 19joot Hailie	Priority number	Year in which to be implemented	Year in which to be completed	Estimated Cost (in Cr.)
1	Construction of new latrines 2200HH @10000/HH	1	2016	2017	2.20 SBM
2	IEC to promote and connect 21200HH from new(trans Yamuna zone-2) sewer line @50 / HH	2	2017	2018	55.23 AMRUT
3	We proposed new sewer line 1091.0 km to cover masani koyla alipur and masoom nagar zone As per estimate	3	2017	2020	PROGRAMME 1472.85
4	For treatment of existing latrines suction machine is required for 50290HH to transport waste to STP 50290 X 2m ³ X 70% = 9.38 300Day X 5m ³ X 5 HH	4	2016	2017	1.00



S.No	Project Name	Priority number	Year in which to be implemented	Year in which to be completed	Estimated Cost (in Cr.
5	Up gradation and renovation of 4 STP in masani, Trans Yamuna zone & Vrindavan with E&M Works	5	2017	2020	601.83 NAMAMI GANGE PROGRAMME
6	construction of 5 new STP in Nagar Nigam Mathura- Vrindavan with E&M Works @1.4CR/MLD	6	2017	2020	109.20
7	Construction of Rising Main of 21.5 Km. in Masoom Nagar, Koyla Alipur Zone and new added area 51 villages	7	2017	2020	21.50
8	Construction of 13 nos. New Pumping Stations with E&M Works	8	2017	2020	108.00
9	Provision for Land cost, shifting of services, power connection, NHAI/Railway Charges	9	2017	2020	20.00
	TOTAL				2391.81

TABLE-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	Chang	e in Service L	evels	Estimated	
			Indicator 2015	Existing (As-Is) 2017	After (To-be)	Cost	
1	Construction of new latrines 2200HH @10000/HH	Construction of Toilets	COVERAGE	97	100	2.2 SBM	
2	IEC to promote and connect 21200HH from new(trans Yamuna zone-2) sewer line @50 / HH	Survey	COVERAGE	13.64	100	55.23 AMRUT PROGRAMME	



Sr. No.	Project Name	Physical Components	Chang	e in Service L	evels.	Estimate
3	NAC		Indicator 2015	Existing (As-Is) 2017	After (To-be)	Cost
3	We proposed new sewer line 180.0 km to cover masani zone As per estimate	New sewer line	PIPELINE COVERAGE	13.64	27.60	350.00
4	For treatment of existing latrines suction machine is required for 50290HH to transport waste to STP	New machinery	TRANSPOR TATION	13	100	1.00
<u>502</u>	50290 X 2m ³ X 70% = 9.38 300Day X 5m ³ X 5 HH					
5	Up gradation and renovation of 4 STP in masani, Trans Yamuna zone &Vrindavan with E&M Works	Upgradation and capacity building of existing STP	TREATME NT	80	100	601.83 NAMAMI GANGE
	Provision for Land cost, shifting of services, power connection, NHAI/Railway Charges	Additional Work				PROGRAMME 10.00
	TOTAL					1020,26

TABLE-8.3: ANNUAL FUND SHARING PATTERN FOR SEWERAGE

(As per Table 2.3.1 of AMRUT guidelines) (Amount in Rs. Cr)

S.No.	Name of Project	Total			Sha	re	
		Project Cost(cr)	Gol (cr)		ULB	Others	Total (cr)
1.	Construction of new latrines 2200HH @10000/HH	2.20	1.10	(cr) 0.66	(cr)	(cr)	2.2
2.	IEC to promote and connect 21200HH from new(trans Yamuna zone-2) sewer line @50 / HH	55.23	27.615	16.569	11.046	-	55.23
3.	We proposed new sewer line 1091.0 km to cover masani koyla alipur and masoom nagar zone As per estimate	1472.85	736.425	441.855	294.57	-	1472.85



S.No	Name of Project	Total		Service Policy	61		
		Project	Gol (c	r) State		are	
	For treatment of	Cost(cr)	30, (6,	(cr)	ULB (cr)	Others	Total (cr
4.	existing latrines suction machine is required for 50290HH to transport waste to STP 50290 X 2m ³ X 70% = 9.38 300Day X 5m ³ X 5 HH	1.00	0.50	0.30	0.20	(cr) -	1.00
-	Up gradation and						
5.	renovation of 4 STP in masani, Trans Yamuna zone & Vrindavan with E&M Works	601.83	601.83	-	-	-	601.83
6.	construction of 5 new STP in Nagar Nigam Mathura-Vrindavan with E&M Works @1.4CR/MLD	109.20	54.60	32.76	21.84	-	109.20
7.	Construction of Rising Main of 21.5 Km. in Masoom Nagar, Koyla Alipur Zone and new added area 51 villages	21.50	10.75	6.45	4.30	-	21.50
5.	New Pumping Stations with E&M Works	108.00	54.00	32.40	21.60	-	108.00
	Provision for Land cost, shifting of services, power connection, NHAI/Railway Charges	20.00	10.00	6.00	4.00	-	20.00
T	OTAL	2391.81	1496.82	536.994	357 006		
				000.004	357.996		2391.81

TABLE-8.4: ANNUAL FUND SHARING BREAK-UP FOR SEWERAGE PROJECTS (As per Table 2.3.2 of AMRUT guidelines)

r. o.	Project	GOI		State			ULB		Converge	others	Total
			14th FC	Others	Total	14th FC	Others	Total	nce		
	Construction of new latrines 2200HH @10000/HH	50%	-	30%	30%	-	20%	-	-	-	100%



Sr. No.	- 40100	GC)I		Sta	ate			U	LB		Conv	erge	others	To
				14th FC	Othe	rs 7	otal	14th FC	Otl		Total	no			
2	IEC to promot and connect 21200HH from new(trans Yamuna zone 2) sewer line @50 / HH	1		-	30%	3	30%	-	209	%	-	-		-	100
3	We proposed new sewer line 1091.0 km to cover masani koyla alipur and masoom nagar zone As per estimate			-	30%	30	0%	-	20%	6	-				1009
1	For treatment of existing latrines suction machine is required for 50290HH to transport waste to STP	50%	-		30%	30%		-	20%	-	-		-		100%
	50290 X 2m ³ X 70% = 9.38 300Day X 5m ³ X 5 HH														
	Up gradation and renovation of 4 STP in masani, Trans Yamuna zone & Vrindavan with E&M Works	100%	-	-			-	-		-	-		•	10	00%
V	onstruction of 5 new STP in Nagar Nigam Mathura- rindavan with E&M Works 11.4CR/MLD	50%	-	30	% :	30%	-	20	0%		-		-	100	0%

Sr. No.		GOI		State			ULB		Converge	others	To
			14th FC	Others	Total	14th FC	Other	Total			
7	Construction of Rising Main of 21.5 Km. in Masoom Nagar, Koyla Alipur Zone and new added area 51 villages		-	30%	30%	-	20%	-	-	-	1009
8	Construction of 13 nos. New Pumping Stations with E&M Works	50%	-	30%	30%	-	20%	-	-	-	100%
9	Provision for Land cost, shifting of services, power connection, NHAI/Railway Charges	50%	-	30%	30%	-	20%		-	- 1	100%

TABLE-8.5: YEAR WISE PLAN FOR SERVICE LEVELS IMPROVEMENTS

(As per Table 2.5of AMRUT guidelines)

Proposed Projects	Project Cost	Indicator Baseline		Aı	nnual T	arget(I	ncrement value)	nt from baseline			
				FY 2016		FY	FY	FY	FY		
nstruction of new late				H1	H2	2017	2018	2019	2020		
onstruction of new latrines 00HH @10000/HH	2.20	100%	96.77%	0.3%	0.3%	1%	1.63%	-			
to promote and connect 200HH from new(trans muna zone-2) sewer line 0 / HH	55.23	100%	13.64%	0%	0%	25.77	-	-	-		



Proposed Projects	Project Cost	Indicato	r Baseli	ne	A	nnua	l Targe	t(Incre	mei	nt fron	n baseline
					F) H1	Y 2016	20		FY 018	FY 2019	FY 202
We proposed new sewer line 1091.0 km to cover masan koyla alipur and masoom nagar zone as per estimate	i	100%	16.39%		0%	0%			.53	27.53	3 27.539
For treatment of existing latrines suction machine is required for 50290HH to transport waste to STP 50290 X 2m ³ X 70% = 9.38 300Day X 5m ³ X 5 HH	2.0	100%	20.00%	5 0)%	0%	40%	6 20	%	20%	0%
Up gradation and renovation of 4 STP in masani, Trans Yamuna zone & Vrindavan with E&M Works	601.83	100%	47.53%	09	%	0%	5.06%	6 5.06	% 5	5.06%	0%
construction of 5 new STP in Nagar Nigam Mathura- Vrindavan with E&M Works @1.4CR/MLD	109.20	100%	47.53%	0%	6	0%	0%	12.4	2 1	2.42 %	12.43%
Construction of Rising Main of 1.5 Km. in Masoom Nagar, Coyla Alipur Zone and new dded area 51 villages	21.50	100%	19.56%	0%	ó	0%	6.52%	24.64		4.64 %	24.64%
onstruction of 13 nos. New umping Stations with E&M	108.00	100%	10.34%	0%	(0%	22.41	22.41 %	1	2.41	22.42%
rovision for Land cost, nifting of services, power onnection, NHAI/Railway narges	20.00	100%	-	-		-	-	-		-	-
otal	2391.81										

Project Manager
Drainage & verage Unit
U. P. Jal Nigam, Mathura

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