

## Service Level Benchmarking under 14th Finance Commission - General Information of City (2018-19)


S.No	Code	Input Nomenclature	Value	Logic/Remark	
70 input fields					
<b>Demographics</b>					
1	XA	Population (Census 2011)	Persons	256790	input field
2	XB	Decadal Growth Rate of the City	%	8.70	(E8-E6)*100/E6
3	XC	Population (Present Year 2018)	Persons	279138	input field
4	XD	Number of Households (Census 2011)	Number	44601	input field
5	XE	Number of Households (Present Year)	Number	45854	function of XD
6	XF	Family Size (Census 2011)	Persons	6	XA/XD
7	XG	Family Size (Present Year 2018)	Persons	6	XC/XE
8	XH	Number of Slums (2011)	Number	31	input field
9	XI	Number of Slums (Present Year 2018)	Number	25	input field
10	XJ	Number of Slum Households (2011)	Number	5354	input field
11	XK	Number of Slum Households (Present Year 2018)	Number	5354	input field
12	XL	Number of Properties (2011)	Number	51538	input field
13	XM	Number of Properties (Present Year 2018)	Number	54989	input field
14	XN	Number of Election Wards (2011)	Number	36	input field
15	XO	Number of Election Wards (Present Year 2018)	Number	40	input field
16	XP	Town/City Area (Census 2011)	sq.km	48	input field
17	XQ	Present Town/City Area	sq.km	48	input field
18	XR	Population Density (Present Year)	Number	5815.38	XC/XQ
19	XS	Number of Commercial and other establishments (offices, institutions, markets), Hotels and Restaurants (Year 2011)	Number	889	input field
20	XT	Number of Commercial and other establishments (offices, institutions, markets, Hotels and Restaurants)(Present Year 2018)	Number	1109	input field
<b>Service Provider Details - Water Supply</b>					
21	XU	Name of Town/City		Etawah	input field
22	XV	Name of the Department/Unit		Municipality	input field
23	XW	Name of the Head of Department/Unit		Anil Kumar	input field
24	XX	Designation of the Department Head		E.O	input field
25	XY	Address		NPP Etawah	input field
26	XZ	Telephone Number		05688-252397	input field
27	YA	Mobile Number		9897860101	input field
28	YB	Fax Number		05688-252397	input field
29	YC	Email		nagarpalikaetawah@gmail.com	input field
30	YD	Website		www.etawahnagar palikaparishad.com	input field
31	YE	Name of the Contact Person		Shree Ram Yadav	input field
32	YF	Designation of the contact person		WWE	input field
33	YG	Address		NPP Etawah	input field
34	YH	Telephone Number		05688-252397	input field
35	YI	Mobile Number		9758295299	input field
36	YJ	Fax Number		05688-252397	input field
37	YK	Email		nagarpalikaetawah@gmail.com	input field
38	YL	Website		www.etawahnagar palikaparishad.com	input field

<b>Service Provider Details - Sewerage and Drainage</b>					
39	YM	Name of Town/ City		Etawah	input field
40	YN	Name of the Department/Unit		Municipality	input field
41	YO	Name of the Head of Department/Unit		Anil Kumar	input field
42	YP	Designation of the Department Head		E.O	input field
43	YQ	Address		NPP Etawah	input field
44	YR	Telephone Number		05688-252397	input field
45	YS	Mobile Number		9897860101	input field
46	YT	Fax Number		05688-252397	input field
47	YU	Email		nagarpalikaetawah@gmail.com	input field
48	YV	Website		www.etawahnagar palikaparishad.com	input field
49	YW	Name of the Contact Person		Anil Kumar	input field
50	YX	Designation of the contact person		EO	input field
51	YY	Address		NPP Etawah	input field
52	YZ	Telephone Number		05688-252397	input field
53	ZA	Mobile Number		9897860101	input field
54	ZB	Fax Number		05688-252397	input field
55	ZC	Email ID		nagarpalikaetawah@gmail.com	input field
56	ZD	Website		www.etawahnagar palikaparishad.com	input field

<b>Service Provider Details - Solid Waste Management</b>					
57	ZE	Name of Town/Utility		Etawah	input field
58	ZF	Name of the Head of the Department		Anil Kumar	input field
59	ZG	Designation of the Head of the Department		E.O	input field
60	ZH	Address		NPP Etawah	input field
61	ZI	Telephone Number		05688-252397	input field
62	ZJ	Mobile Number		9897860101	input field


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14/06/2019

63	ZK	Fax Number		05688-252397	input field
64	ZL	Email ID		nagarpalikaetawah@gmail.com	input field
65	ZM	Website		www.etawahnagar palikaparishad.com	input field
66	ZN	<b>Name of the Contact Person</b>		Anil Kumar	input field
67	ZO	Designation of the Contact Person		EO	input field
68	ZP	Address		NPP Etawah	input field
69	ZQ	Telephone Number		05688-252397	input field
70	ZR	Mobile Number		9897860101	input field
71	ZS	Fax Number		05688-252397	input field
72	ZT	Email ID		nagarpalikaetawah@gmail.com	input field
73	ZU	Website		www.etawahnagar palikaparishad.com	input field

  
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## Service Level Benchmarking under 14th Finance Commission- Water Supply Data (2018-19)

S.No	Code	Input Nomenclature		Value	Logic/Remark
					63+14 input fields
	I	COVERAGE OF WATER SUPPLY CONNECTIONS	%	74.2	AU*100/XE
		<i>Water Service Coverage - Number of Connections</i>			
1	AA	Domestic Connections (Metered Functional)	Number	21000	Input field
2	AB	Domestic Connections (Metered Non-Functional)	Number	0	Input field
3	AC	Domestic Connections (Unmetered)	Number	13032	Input field
4	AD	Domestic connections (Total)	Number	34032	(AA+AB+AC)
5	AE	Bulk supply Apartments (Metered Functional)	Number	0	Input field
6	AF	Bulk supply Apartments (Metered Non-Functional)	Number	0	Input field
7	AG	Bulk supply Apartments (Unmetered)	Number	0	Input field
8	AH	Bulk supply Apartments (Total)	Number	0	(AE+AF+AG)
9	AI	Bulk supply Layouts/Societies (Metered Functional)	Number	0	Input field
10	AJ	Bulk supply Layouts/Societies (Metered Non-Functional)	Number	0	Input field
11	AK	Bulk supply Layouts/societies (Unmetered)	Number	0	Input field
12	AL	Bulk supply Layouts/Societies (Total)	Number	0	(AI+AJ+AK)
13	AM	Others - Specify (Metered Functional)	Number	0	Input field
14	AN	Others - Specify (Metered Non-Functional)	Number	0	Input field
15	AO	Others - Specify (Unmetered)	Number	0	Input field
16	AP	Others - Specify (Total)	Number	0	(AM+AN+AO)
17	AQ	Total Number of Water Supply Connections	Number	34032	(AD+AH+AL+AP)
		<i>Water Service Coverage - Households Served</i>			
18	AR	Households served by Domestic Connections	Number	34032	Input field
19	AS	Households served by Bulk supply - Apartments	Number	0	Input field
20	AT	Households served by Bulk supply - Layouts/Societies	Number	0	Input field
21	AU	Total Households served with Water Supply	Number	34032	AR+AS+AT
		<i>*Households served by own sources such as wells, handpumps shall not be included</i>			
	II	PER CAPITA SUPPLY OF WATER	LPCD	161.93	(BC+BD+BE+BG+BJ)*10^6/XC
		<i>Water Production Capacity</i>			
22	AV	Installed Capacity of Treatment Plants for Surface Water Sources	MLD	0	Input field
23	AW	Volume of water produced through Surface Water Sources	MLD	0	Input field
24	AX	Installed Capacity of Treatment Plants for Ground Water Sources	MLD	0	Input field
25	AY	Volume of water produced through Ground water (power pumps)	MLD	42	Input field
26	AZ	Volume of water produced through any Other Sources	MLD	0	Input field
27	BA	Total Installed Capacity	MLD	0	AV+AX
28	BB	Total Volume of water produced	MLD	42	AW+AY+AZ
		<i>Water Consumption</i>			
29	BC	Volume of water billed from Domestic Connections	MLD	36	Input field
30	BD	Volume of water billed from Bulk supply Apartments	MLD	0	Input field
31	BE	Volume of water billed from Bulk supply Layouts/Societies	MLD	0	Input field
32	BF	Volume of water billed from Non domestic Connections	MLD	0.2	Input field
33	BG	Volume of water billed from Public taps	MLD	0	Input field
34	BH	Volume of water billed from any other sources	MLD	0.3	Input field
35	BI	Total Volume of water billed	MLD	36.5	BC+BD+BE+BF+BG+BH
36	BJ	Total Volume of water unbilled (free supplies to Public taps)	MLD	9.2	Input field
37	BK	Total Volume of water unbilled (free connections eg. Religious institutions etc)	MLD	0	Input field
	III	EXTENT OF NON REVENUE WATER (NRW)	%	13.10	(BB-BI)*100/BB
38	BB	Total Volume of Water Produced	MLD	42	BB
39	BI	Total Volume of Water Billed	MLD	36.5	BI
	IV	EXTENT OF METERING OF WATER SUPPLY CONNECTIONS	%	60.60	(BL-BP-BT)*100/BU
40	BL	Non domestic incl. commercial/Indus/Instl. (Metered Functional)	Number	0	Input field
41	BM	Non domestic incl. commercial/Indus/Instl. (Metered Non-Functional)	Number	0	Input field
42	BN	Non domestic incl. commercial/Indus/Instl. (Unmetered)	Number	0	Input field
43	BO	Non domestic incl. commercial/Indus/Instl. (Total)	Number	0	BL+BM+BN
44	BP	Public taps (Metered Functional)	Number	0	Input field
45	BQ	Public taps (Metered Non-Functional)	Number	0	Input field
46	BR	Public taps (Unmetered)	Number	623	Input field
47	BS	Public Taps (Total)	Number	623	BP+BQ+BR
48	BT	Total number of metered and functional connections (domestic, bulk supply, others)	Number	21000	AA+AE+AI+AM
49	BU	Total number of Water Supply Connections	Number	34655	AQ+BO+BS
	IV	CONTINUITY OF WATER SUPPLY	Hours per Day	8.00	(BW*BV/30)
		<i>Water Supply Frequency</i>			
50	BV	Days of supply per month	Number	30	Input field
51	BW	Average duration of each supply	Hours	8	Input field

  
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## Service Level Benchmarking under 14th Finance Commission- Water Supply Data (2018-19)

S.No	Code	Input Nomenclature		Value	Logic/Remark
	I	COVERAGE OF WATER SUPPLY CONNECTIONS	%	74.2	63+14 input fields AU*100/XF
		<i>Water Service Coverage - Number of Connections</i>			
1	AA	Domestic Connections (Metered Functional)	Number	21000	Input field
2	AB	Domestic Connections (Metered Non-Functional)	Number	0	input field
3	AC	Domestic Connections (Unmetered)	Number	13032	Input field
4	AD	Domestic connections (Total)	Number	34032	(AA+AB+AC)
5	AE	Bulk supply Apartments (Metered Functional)	Number	0	Input field
6	AF	Bulk supply Apartments (Metered Non-Functional)	Number	0	Input field
7	AG	Bulk supply Apartments (Unmetered)	Number	0	Input field
8	AH	Bulk supply Apartments (Total)	Number	0	(AE+AF+AG)
9	AI	Bulk supply Layouts/Societies (Metered Functional)	Number	0	Input field
10	AJ	Bulk supply Layouts/Societies (Metered Non-Functional)	Number	0	Input field
11	AK	Bulk supply Layouts/societies (Unmetered)	Number	0	Input field
12	AL	Bulk supply Layouts/Societies (Total)	Number	0	(AI+AJ+AK)
13	AM	Others - Specify (Metered Functional)	Number	0	Input field
14	AN	Others - Specify (Metered Non-Functional)	Number	0	Input field
15	AO	Others - Specify (Unmetered)	Number	0	Input field
16	AP	Others - Specify (Total)	Number	0	(AM+AN+AO)
17	AQ	Total Number of Water Supply Connections	Number	34032	(AD+AH+AL+AP)
		<i>Water Service Coverage - Households Served</i>			
18	AR	Households served by Domestic Connections	Number	34032	Input field
19	AS	Households served by Bulk supply - Apartments	Number	0	Input field
20	AT	Households served by Bulk supply - Layouts/Societies	Number	0	Input field
21	AU	Total Households served with Water Supply	Number	34032	AR+AS+AT
		<i>*Households served by own sources such as wells, handpumps shall not be included</i>			
	II	PER CAPITA SUPPLY OF WATER	LPCD	161.93	(BC+BD+BE+BG+BJ)*10^6/XC
		<i>Water Production Capacity</i>			
22	AV	Installed Capacity of Treatment Plants for Surface Water Sources	MLD	0	Input field
23	AW	Volume of water produced through Surface Water Sources	MLD	0	Input field
24	AX	Installed Capacity of Treatment Plants for Ground Water Sources	MLD	0	Input field
25	AY	Volume of water produced through Ground water (power pumps)	MLD	42	Input field
26	AZ	Volume of water produced through any Other Sources	MLD	0	Input field
27	BA	Total Installed Capacity	MLD	0	AV+AX
28	BB	Total Volume of water produced	MLD	42	AW+AY+AZ
		<i>Water Consumption</i>			
29	BC	Volume of water billed from Domestic Connections	MLD	36	Input field
30	BD	Volume of water billed from Bulk supply Apartments	MLD	0	Input field
31	BE	Volume of water billed from Bulk supply Layouts/Societies	MLD	0	Input field
32	BF	Volume of water billed from Non domestic Connections	MLD	0.2	Input field
33	BG	Volume of water billed from Public taps	MLD	0	Input field
34	BH	Volume of water billed from any other sources	MLD	0.3	Input field
35	BI	Total Volume of water billed	MLD	36.5	BC+BD+BE+BF+BG+BH
36	BJ	Total Voume of water unbilled (free supplies to Public taps)	MLD	9.2	Input field
37	BK	Total Volume of water unbilled (free connections eg. Religious institutions etc)	MLD	0	Input field
	III	EXTENT OF NON REVENUE WATER (NRW)	%	13.10	(BB-BI)*100/BB
38	BB	Total Volume of Water Produced	MLD	42	BB
39	BI	Total Volume of Water Billed	MLD	36.5	BI
	IV	EXTENT OF METERING OF WATER SUPPLY CONNECTIONS	%	60.60	(BL-BP-BT)*100/BU
40	BL	Non domestic incl. commercial/Indus/Instl. (Metered Functional)	Number	0	Input field
41	BM	Non domestic incl. commercial/Indus/Instl. (Metered Non-Functional)	Number	0	Input field
42	BN	Non domestic incl. commercial/Indus/Instl. (Unmetered)	Number	0	Input field
43	BO	Non domestic incl. commercial/Indus/Instl. (Total)	Number	0	BL+BM+BN
44	BP	Public taps (Metered Functional)	Number	0	Input field
45	BQ	Public taps (Metered Non-Functional)	Number	0	Input field
46	BR	Public taps (Unmetered)	Number	623	Input field
47	BS	Public Taps (Total)	Number	623	BP+BQ+BR
48	BT	Total number of metered and functional connections (domestic, bulk supply, others)	Number	21000	AA+AE+AI+AM
49	BU	Total number of Water Supply Connections	Number	34655	AQ+BO+BS
	IV	CONTINUITY OF WATER SUPPLY	Hours per Day	8.00	(BW*BV/30)
		<i>Water Supply Frequency</i>			
50	BV	Days of supply per month	Number	30	Input field
51	BW	Average duration of each supply	Hours	8	Input field

  
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## Service Level Benchmarking under 14th Finance Commission- Sewerage and Drainage (2018-19)

S.No	Code	Input Nomenclature		Value	Logic/Remark
					31+26 input fields
	I	COVERAGE OF TOILETS	%	97.5	(FC*100/XM)
		<i>Sanitation Coverage</i>			
1	XM	Total Number of Properties in the City	Number	54989	XM
2	FA	Properties with toilets	Number	49125	Input field
3	FB	Households dependent on functional community toilets	Number	4512	Input field
4	FC	Total Number of Properties with access to toilets	Number	53637	FA+FB
	II	COVERAGE OF SEWAGE NETWORK SERVICES	%	0.280056011	(FD*100/XM)
5	XM	Total Number of Properties in the City	Number	54989	XM
6	FD	Properties with sewer connections	Number	154	Input field
7	FE	Properties with onsite sanitary disposal	Number	42	Input field
	III	COLLECTION EFFICIENCY OF SEWAGE NETWORK	%	28.56947484	(FX*100/FW)
		<i>Waste Water Production - Volume of Water Consumed and Waste Water Generated</i>			
8	FF	Volume of water consumed and billed from Domestic Connections	MLD	36	BC
9	FG	Volume of water consumed and billed from Bulk supply - Apartments	MLD	0	BE
10	FH	Volume of water consumed and billed from Bulk supply - Layouts/Societies	MLD	0	BF
11	FI	Volume of water consumed and billed from Non domestic Connections	MLD	0.2	BD
12	FJ	Volume of water consumed (both billed and unbilled) from Public taps	MLD	9.2	BG+BJ
13	FK	Volume of water from free supplies (other connections)	MLD	0	BK
14	FL	Volume of water consumed and billed from any other ULB sources	MLD	0.3	BH
15	FM	Volume of water consumed from any Non ULB water sources	MLD	0	Input field
16	FN	Total Water Consumption (billed and unbilled) from ULB and Non ULB sources)	MLD	45.7	FF+FG+FH+FI+FJ+FK+FL+FM
17	FO	Volume of waste water generated from Domestic Water Consumption	MLD	28.8	0.80*FF
18	FP	Volume of waste water generated from Bulk Supply - Apartments	MLD	0	0.80*FG
19	FQ	Volume of waste water generated from Bulk Supply - Layouts/Societies	MLD	0	0.80*FH
20	FR	Volume of waste water generated from Non Domestic Water Consumption	MLD	0.16	0.80*FI
21	FS	Volume of waste water generated from Public Tap Water Consumption	MLD	7.36	0.80*FJ
22	FT	Volume of waste water generated from free supplies (other connections)	MLD	0	0.80*FK
23	FU	Volume of waste water generated from other ULB source water consumption	MLD	0.24	0.80*FL
24	FV	Volume of waste water generated from Non ULB source Water consumption	MLD	0	0.80*FM
25	FW	Total Waste Water Generated	MLD	36.56	FO+FP+FQ+FR+FS+FT+FU+FV
		<i>Waste Water Collection and Treatment</i>			
26	FX	Volume of sewage actually treated at the Primary Treatment Plant	MLD	10.445	Input field
27	FY	Volume of sewage actually treated at Secondary Treatment Plant	MLD	7	Input field
28	FZ	Total Volume of Waste Water collected and Treated at Sewage Treatment Plants	MLD	17.445	FX+FY
	IV	ADEQUACY OF SEWAGE TREATMENT CAPACITY	%	36.92560175	(GB*100/FW)
29	GA	Installed Capacity of Primary Treatment Plant	MLD	10.445	Input field
30	GB	Installed Capacity of Secondary Treatment Plant	MLD	13.5	Input field
31	GC	Total Installed Capacity (Primary + Secondary Treatment)	MLD	23.945	GA+GB
32	FW	Total Waste Water Generated	MLD	36.56	FW
	V	EXTENT OF REUSE AND RECYCLING OF SEWAGE	%	0	(GD*100/FY)
33	FY	Volume of sewage actually treated at Secondary Treatment Plant	MLD	7	FY
34	GD	Volume of treated waste water reused after Secondary Treatment	MLD	0	Input field
	VI	QUALITY OF SEWAGE TREATMENT	%	93.10344828	(GF*100/GE)
		<i>Discharge Compliance after Secondary Treatment of Sewage</i>			
35	GE	Number of Treated Effluent Samples Tested in the previous year	Number	29	Input field
36	GF	Number of Treated Effluent Samples Passed in the previous year	Number	27	Input field
	VII	EFFICIENCY IN REDRESSAL OF CUSTOMER COMPLAINTS	%	#DIV/0!	(GH*100/GG)
		<i>Consumer Services</i>			
37	GG	Sewage related Complaints received during the year	Number	0	Input field
38	GH	Sewage related Complaints resolved within 24 hours during the year	Number	0	Input field
	VIII	EXTENT OF COST RECOVERY IN SEWAGE MANAGEMENT	%	30.1	(GU*100/GP)
		<i>Financial Information - Annual Operating Expenses</i>			
39	GI	Regular Staff and Administration	Rs. Lakhs	2.98	Input field
40	GJ	Outsourced /Contract Staff Costs	Rs. Lakhs	3.96	Input field
41	GK	Electricity Charges /Fuel Costs	Rs. Lakhs	0.62	Input field
42	GL	Chemicals Costs	Rs. Lakhs	0.00	Input field
43	GM	Repairs/Maintenance Costs	Rs. Lakhs	0.42	Input field
44	GN	Contractor Costs for O&M	Rs. Lakhs	0.00	Input field
45	GO	Others (Specify)	Rs. Lakhs	0.00	Input field
46	GP	Total Annual Operating Expenses	Rs. Lakhs	7.98	GI+GJ+GK+GL+GM+GN+GO
		<i>Financial Information - Annual Operating Revenues</i>			
47	GQ	Arrears at the beginning of previous year	Rs. Lakhs	0.00	Input field
48	GR	Revenue demand from user charges - sewerage only	Rs. Lakhs	0.00	Input field
49	GS	Revenue demand from tax/cess - sewerage only	Rs. Lakhs	0.00	Input field
50	GT	Revenue demand from other sources (eg. connection costs/donations etc.)	Rs. Lakhs	2.40	Input field
51	GU	Total Revenue Demand of the previous year (Current Demand of previous year)	Rs. Lakhs	2.40	GR+GS+GT
	IX	EFFICIENCY IN COLLECTION OF SEWAGE CHARGES		88.3	(GW*100/GU)
52	GU	Total Revenue Demand of the previous year (Current Demand of previous year)	Rs. Lakhs	2.40	GU
53	GV	Collection against arrears	Rs. Lakhs	0.00	Input field
54	GW	Collection against current demand	Rs. Lakhs	2.12	Input field

## SLB Code Sheet

Additional information (Optional)					
<b>Staff Information</b>					
55	HA	Senior Management (Sanctioned)	Number	0	Input field
56	HB	Senior Management (Working)	Number	0	Input field
57	HC	Engineers (Sanctioned)	Number	0	Input field
58	HD	Engineers (Working)	Number	0	Input field
59	HE	Clerks/Accountants (Sanctioned)	Number	0	Input field
60	HF	Clerks/Accountants (Working)	Number	0	Input field
61	HG	Labourers/Cleaners (Sanctioned)	Number	20	Input field
62	HH	Labourers/Cleaners (Working)	Number	20	Input field
63	HI	Total (Sanctioned)	Number	20	
64	HJ	Total (Working)	Number	20	
<b>Septage Management</b>					
65	HL	Does the ULB practice septage management	Yes/No	Yes	Input field
66	HM	Septage sucking machines available within ULB	Number	2	Input field
67	HN	Private Septage machines licensed by ULB	Number	0	Input field
<b>Connection Costs for Sewerage Connections</b>					
68	HO	Residential - General	Rs	0	Input field
69	HP	Residential - Urban Poor	Rs	0	Input field
70	HQ	Institutional	Rs	0	Input field
71	HR	Commercial	Rs	0	Input field
72	HS	Industrial	Rs	0	Input field
<b>Sewerage Tariff Structure - Flat Rate Tariff</b>					
73	HT	Residential - General	Rs./Month	0	Input field
74	HU	Residential - Urban Poor	Rs./Month	0	Input field
75	HV	Institutional	Rs./Month	0	Input field
76	HW	Commercial	Rs./Month	0	Input field
77	HX	Industrial	Rs./Month	0	Input field
<b>Sewerage Tariff Structure - Volumetric Tariff</b>					
78	HY	Residential - General	Rs./KL	0	Input field
79	HZ	Residential - Urban Poor	Rs./KL	0	Input field
80	IA	Institutional	Rs./KL	0	Input field
81	IB	Commercial	Rs./KL	0	Input field
82	IC	Industrial	Rs./KL	0	Input field
<b>Storm Water Drainage Data</b>					
<b>I COVERAGE OF STORM WATER DRAINAGE NETWORK</b>					
83	ID	Total Length of Road Network	%	3	1E*100/D
84	IE	Total Length of Pucca covered drains	Kilometers	4.12	Input field
<b>II INCIDENCE OF WATER LOGGING/FLOODING</b>					
85	IF	Number of Flood Prone Points in the city	Number	2	IF*IG
86	IG	Average Frequency of Flooding	Number	1	Input field
<b>SEWERAGE SERVICE INDICATOR VALUES</b>					
S.No.	Indicator	Unit	Value	Reliability	
1	Coverage of Toilets	%	97.5		
2	Coverage of wastewater network services	%	0.3		
3	Collection efficiency of wastewater networks	%	28.6		
4	Adequacy of wastewater treatment capacity	%	36.4		
5	Extent of reuse and recycling of treated wastewater	%	0.0		
6	Quality of wastewater treatment	%	93.1		
7	Efficiency in redressal of customer complaints	%	4DIV/0		
8	Extent of cost recovery in wastewater management	%	30.1		
9	Efficiency in collection of sewerage charges	%	88.3		
<b>STORM WATER DRAINAGE SERVICE INDICATOR VALUES</b>					
S.No.	Indicator	Unit	Value	Reliability	
1	Coverage of Storm Water Drainage Network	%	3		
2	Incidence of water logging/flooding	Number	2		

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नगर पालिका परिषद, इटावा

## Service Level Benchmarking under 14th Finance Commission- Solid Waste Management (2018-19)

S.No	Code	Input Nomenclature		Value	Logic/Remark
					65+17 input fields
I HOUSEHOLD LEVEL COVERAGE OF SOLID WASTE MANAGEMENT SERVICES				91.83	KE*100/(XE+XT)
<i>Door to Door Collection - Number of HHs and establishments covered by Door to Door Collection</i>					
1	KA	Number of Households covered by Door to Door Collection	Number	43125	Input field
2	KB	Number of Hotels and Restaurants covered by Door to Door Collection	Number	0	Input field
3	KC	Number of Commercial Establishments (institutions, offices) covered by Door to Door Collection	Number	0	Input field
4	KD	Number of any other establishments (incl. markets) covered by Door to Door Collection	Number	0	Input field
5	KE	Total Number of Households and Establishments covered by Door to Door Collection	Number	43125	KA+KB+KC+KD
II EFFICIENCY OF COLLECTION OF MUNICIPAL SOLID WASTE				55.31	IF(KO=0,(LO*100/KL),(KO*100/KL))
<i>Waste Generation</i>					
6	KF	Waste Generated by Households	MT/month	1149	Input field
7	KG	Waste Generated by Street Sweeping	MT/month	422	Input field
8	KH	Waste Generated by Hotels and Restaurants	MT/month	181	Input field
9	KI	Waste Generated by Markets (Vegetable Markets, Mandis etc)	MT/month	279	Input field
10	KJ	Waste Generated by Commercial Establishments (eg. Institutions, etc)	MT/month	182	Input field
11	KK	Waste Generated by other sources (eg. debris, horticulture waste etc)	MT/month	0	Input field
12	KL	Total Waste Generated	MT/month	2213	KF+KG+KH+KI+KJ+KK
<i>Waste Collection and Transportation - Details of waste received at Processing/ Disposal Facilities</i>					
13	KM	Quantity of waste received at processing and recycling facilities	MT/month	0	Input field
14	KN	Quantity of waste received at disposal sites	MT/month	2178	Input field
15	KO	Total waste received at processing/disposal facility and recycled	MT/month	1224	KM+KN+LQ-ME
<i>Waste Collection and Transportation - Details of waste transported to Processing/ Disposal Facilities</i>					
16	KP	Number of lorries/trucks used for transportation of waste	Number	0	Input field
17	KQ	Capacity of each lorries/trucks	Metric Tons (MT)	0	Input field
18	KR	Total number of trips made by each lorries/trucks each day to the disposal site	Trips per day	0	Input field
19	KS	Total quantity of waste collected by mini lorries/trucks	MT/month	0	KP*KQ*KR*30
20	KT	Number of dumper placers used for transportation of waste	Number	2	Input field
21	KU	Capacity of each dumper placer	Metric Tons (MT)	1.25	Input field
22	KV	Total number of trips made by each dumper placers each day to the disposal site	Trips per day	2	Input field
23	KW	Total quantity of waste collected by dumper placers	MT/month	150	KT*KU*KV*30
24	KX	Number of mini lorries used for transportation of waste	Number	8	Input field
25	KY	Capacity of each mini lorry	Metric Tons (MT)	0.5	Input field
26	KZ	Total number of trips made by each mini lorries each day to the disposal site	Trips per day	1	Input field
27	LA	Total quantity of waste collected by mini lorries	MT/month	120	KX*KY*KZ*30
28	LB	Number of tractor trailers used for transportation of waste	Number	5	Input field
29	LC	Capacity of each tractor trailer	Metric Tons (MT)	2.5	Input field
30	LD	Total number of trips made by each tractor trailer each day to the disposal site	Trips per day	2	Input field
31	LE	Total quantity of waste collected by tractor trailer	MT/month	750	LB*LC*LD*30
32	LF	Number of tipper trucks used for transportation of waste	Number	6	Input field
33	LG	Capacity of each tipper trucks	Metric Tons (MT)	3.5	Input field
34	LH	Total number of trips made by each tipper trucks each day to the disposal site	Trips per day	2	Input field
35	LI	Total quantity of waste collected by tipper trucks	MT/month	1260	LF*LG*LH*30
36	LJ	Number of 3 wheeler auto tippers used for transportation of waste	Number	0	Input field
37	LK	Capacity of each 3 wheeler auto tipper	Metric Tons (MT)	0	Input field
38	LM	Total number of trips made by each 3 wheeler auto tippers each day to the disposal site	Trips per day	0	Input field
39	LN	Total quantity of waste collected by 3 wheeler auto tippers	MT/month	0	LJ*LK*LM*30
40	LO	Total quantity of waste collected and transported to disposal site	MT/month	2280	KS+KW+LA+LE+LI+LN
III EXTENT OF SEGREGATION OF MUNICIPAL SOLID WASTE				90.79	((LP+LQ)/IF(MH=0,LO,MH))*100
<i>Segregation of Waste</i>					
41	LP	Quantity of waste arriving at Processing/ Disposal facility in segregated manner	MT/month	2070	Input field
42	LQ	Quantity of waste taken away by recyclers from intermediate points	MT/month	0	Input field



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## SLB Code Sheet

IV EXTENT OF MUNICIPAL SOLID WASTE RECOVERED					(MF/IF(KO=0,LO,KO))*100
<i>Quantity of Waste Processing</i>					
43	LR	Installed Capacity of Composting Plant	MT/month	2250	Input field
44	LS	Waste Quantity Input at the Composting Plant	MT/month	600	Input field
45	LT	Installed Capacity of Vermi-composting Plant	MT/month	0	Input field
46	LU	Waste Quantity Input at the Vermi-composting Plant	MT/month	0	Input field
47	LV	Installed Capacity of Refuse Derived Fuel	MT/month	900	Input field
48	LW	Waste Quantity Input at the Refuse Derived Fuel	MT/month	500	Input field
49	LX	Installed Capacity of Bio Methanation/ Waste-to-Energy Plants	MT/month	0	Input field
50	LY	Waste Quantity Input at Bio methanation/ Waste-to-Energy plants	MT/month	0	Input field
51	LZ	Installed Capacity of any other processing facilities	MT/month	0	Input field
52	MA	Waste Quantity Input at other processing facilities	MT/month	0	Input field
53	MB	Total Installed Capacity of Processing facilities	MT/month	3150	LR+LT+LV+LX+LZ
54	MC	Total Waste Quantity Input at all types of processing facilities	MT/month	1100	LS+LU+LW+LY+MA
55	MD	Quantity of waste rejected by processing facilities at intake point	MT/month	181	Input field
56	ME	Quantity of post-processing rejects sent to dumpsite/ landfills	MT/month	954	Input field
57	MF	Total Waste Processed in the ULB	MT/month	0	IF(MC<MB,(MC+LQ-MD),(MB+LQ-MD))
V EXTENT OF SCIENTIFIC DISPOSAL OF MUNICIPAL SOLID WASTE					#DIV/0! (MG*100/(MG+MH))
<i>Quantity of Waste Disposal</i>					
58	MG	Quantity of waste disposed in compliant landfill sites	MT/month	0	Input field
59	MH	Quantity of waste disposed in open dump sites	MT/month	0	Input field
VI EFFICIENCY IN REDRESSAL OF CUSTOMER COMPLAINTS					97.31 (MJ*100/MI)
<i>Customer Service</i>					
60	MI	Complaints received during the year	Number	2718	Input field
61	MJ	Complaints resolved within 24 hours during the year	Number	2645	Input field
VII EXTENT OF COST RECOVERY IN SWM SERVICES					(NA*100/MR)
<i>Financial Information - Operational Expenditure on SWM during previous year</i>					
62	MK	Regular Staff & Administration	Rs. In Lakhs	584.06	Input field
63	ML	Outsourced/Contracted Staff Costs	Rs. In Lakhs	545.60	Input field
64	MM	Electricity Charges/Fuel Costs	Rs. In Lakhs	135.14	Input field
65	MN	Chemical Costs	Rs. In Lakhs	22.14	Input field
66	MO	Repair/Maintenance Costs	Rs. In Lakhs	49.76	Input field
67	MP	Contracted Services Cost	Rs. In Lakhs	12.12	Input field
68	MQ	Other Costs (Specify)	Rs. In Lakhs	0.00	Input field
69	MR	Total Operational Expenses	Rs. In Lakhs	1348.82	MK+ML+MM+MN+MO+MP+MQ
<i>Financial Information - Operational Revenues from SWM during previous year</i>					
70	MS	Arrears at the end of previous year	Rs. In Lakhs	0	Input field
71	MT	Tax / Cess - Solid Waste only	Rs. In Lakhs	0	Input field
72	MU	User Charges	Rs. In Lakhs	0	Input field
73	MV	Fixed Charges based on Property Tax/ State Taxes/Cess/Surcharges	Rs. In Lakhs	0	Input field
74	MW	Sale of Recyclables	Rs. In Lakhs	0	Input field
75	MX	Sale from processing - compost/energy	Rs. In Lakhs	0	Input field
76	MY	Royalty	Rs. In Lakhs	0	Input field
77	MZ	Others (Specify)	Rs. In Lakhs	0	Input field
78	NA	Total Revenue Demand Raised for the previous year	Rs. In Lakhs	0	MT+MU+MV+MW+MX+MY+MZ
VIII EFFICIENCY IN COLLECTION OF SWM CHARGES					#DIV/0! (NC*100/NA)
79	NA	Total Revenue Demand Raised for the previous year	Rs. In Lakhs	0	NA
80	NB	Collection against arrears	Rs. In Lakhs	0	Input field
81	NC	Collection against Current Demand	Rs. In Lakhs	0	Input field
Additional Information (Optional)					
<b>Staff Information</b>					
82	ND	Senior Management-Health Officer (Sanctioned)	Number		Input field
83	NE	Senior Management-Health Officer (Working)	Number		Input field
84	NF	Sanitary Inspector (Sanctioned)	Number		Input field
85	NG	Sanitary Inspector (Working)	Number		Input field
86	NH	Sanitary Supervisor (Sanctioned)	Number		Input field
87	NI	Sanitary Supervisor (Working)	Number		Input field
88	NJ	Maistries/Safai Karam chari (Sanctioned)	Number		Input field
89	NK	Maistries/Safai Karam chari (Working)	Number		Input field
90	NL	Cleaners/Drivers (Sanctioned)	Number		Input field
91	NM	Cleaners/Drivers (Working)	Number		Input field
92	NN	Labourers (Sanctioned)	Number		Input field
93	NO	Labourers (Working)	Number		Input field
94	NP	Others Specify	Number		Input field
95	NQ	Total (Sanctioned)	Number	0	ND+NF+NH+NJ+NL+NN
96	NR	Total (Working)	Number	0	NE+NG+NI+NK+NM+NO+NP
97	NS	Are daily records of waste received at compliant landfill maintained (MSW 2000)	Yes/No	NO	Input field
98	NT	Is weighbridge available at landfill site?	Yes/No	NO	Input field
99	NU	Are daily records of waste received at open dumpsites maintained?	Yes/No	YES	Input field
100	NV	Is weighbridge available at dumpsite?	Yes/No	NO	Input field

SOLID WASTE MANAGEMENT INDICATORS



## SLB Code Sheet

	Indicators	Unit	Result	Reliability
1	Household level coverage of solid waste management services	%	91.8	
2	Efficiency of collection of municipal solid waste	%	55.3	
3	Extent of segregation of municipal solid waste	%	90.8	
4	Extent of municipal solid waste recovered	%	0.0	
5	Extent of scientific disposal of municipal solid waste	%	#DIV/0!	
6	Extent of cost recovery in solid waste management services	%	0.0	
7	Efficiency in collection of solid waste management charges	%	#DIV/0!	
8	Efficiency in redressal of customer complaints	%	97.3	



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