

Key Findings on Environmental Protection Expenditure, Resource and Waste Management Survey 2022





Strengthening Environment, Climate Change and Disaster Statistics (ECDS) Project Bangladesh Bureau of Statistics Statistics and Informatics Division Ministry of Planning Government of the People's Republic of Bangladesh

Environmental Protection Expenditure, Resource and Waste Management Survey 2022

Prepared by

Strengthening Environment, Climate Change and Disaster Statistics (ECDS) Project Bangladesh Bureau of Statistics

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01. Environmental Protection Expenditure and Resource Management (EPER) Survey 2022

Background

A healthy natural balance of air, water, animals, plants, and other natural resources is called a balanced environment. An organism's existence and development are strongly influenced by its environment. Through indiscriminate industrialization, humans have polluted the environment continuously, endangering mankind's existence. Local communities and society as a whole are severely affected by land, air, and water pollution. We cannot survive as a species without environmental sustainability. It is our responsibility to protect our planet, which is our home to live on, in order to maintain a healthy and safe environment. Without care for our environment, toxins and contaminants will pollute it and harm people.

The most important goal of environmental protection is to ensure that humans and ecosystems are protected because humans cannot survive without a healthy environment. Clean air, water, food, and fiber are all provided by ecosystems, which are the foundation of life on earth. Environmental Protection Expenditure (EPE) refers to the amount of economic resources devoted to all activities that have the prevention, reduction and elimination of pollution and any other degradation of the environment as their main purpose. Data on environmental protection expenditures can help policymakers in assessing economic activities (resource consumption, air or water pollution, and waste production). Data on how much money is spent on protecting the environment can help policymakers in evaluating economic activities like using up resources, polluting the air or water, and making waste. As well, it is possible to evaluate pollution risks and causes and the measures (investments, technologies, and expenditures) being undertaken to reduce them. Additionally, sustainable development aims to mitigate the harmful effects of pollution while meeting the needs of current generations and ensuring the sustainability of environmental factors in the future.

It is vital to have data on EPE in order to determine how much money and other economic resources are being spent on environmental protection. We can also use EPE data to determine what types of activities are being carried out to prevent, reduce, and eliminate pollution and other forms of environmental degradation. Even though data on environmental spending is very important for judging how well our country protects the environment, no major steps have been taken to measure the size, pattern, and trend of spending on environmental protection. Due to this, there is practically no official EPE data available. Stakeholders have been pushing for a survey like this one which has been done for a long time to collect information on EPE.

Against this background, the Bangladesh Bureau of Statistics (BBS) has conducted a survey to collect data on EPE. It is hoped that the survey information will help to mitigate data gaps on how much money is spent on environmental protection in Bangladesh.

Objectives of the Survey

The main objective of this survey is to gather data on environmental protection expenditure, resource and waste management by the establishments (in sections A to R, as defined by ISIC Rev. 4). The specific objectives of this survey are the following:

- To estimate the environment protection and resource management expenditure by types of expenditure;
- To estimate the investment size to protect environment by environmental domains;
- To estimate current expenditure to protect environment by environmental domain;
- To estimate current and capital spending for resource management;
- To collect data on activities that directly aim at prevention, reduction and elimination of pollution or any other degradation of the environment;
- To estimate the employment size and cost of employment the establishments; and
- To evaluate the technological innovations (devices and tools) that employed in environmental protection

Coverage of the survey

All large (250 or more employees) and medium-sized (100 to 249 employees) establishments, whose primary operations are specified in sections A to R of the International Standard Industrial Classification, revision 4 (ISIC.Rev.4) were included in this survey. However, for small (25–99 employees) and micro businesses (10–24 employees), a subset of the population (samples) was chosen using sampling methodology.

Institutions/ Organizations (Establishment)							
Types of Population	Employment Size	Population Size	Sample Size				
Stratum I (large)	>=250	3,113	3,113				
Stratum II (medium)	100-249	5,858	5,858				
Stratum III (small)	25-99	28,083	1698				
Stratum IV (micro)	10-24	89,707	2013				
Total		126,761	12,682				

Data collection method

Face-to-face interviews with respondents were used to collect data by smart digital technology with mobile device management (MDM) software.

Key findings

Provisional Key Findings of the Environmental Protection Expenditure and Resource Management (EPER) Survey 2022 is appended below in tabular form.

SL.	Description	Measurement	Year		
N0.	Description	unit	2018-19	2019-20	2020-21
1	2	3	4	5	6
1.	Distribution of establishm	nents by employ	ment size		
	Total	%	-	-	100.00
	Micro	%	-	-	70.76
	Small	%	-	-	22.15
	Medium	%	-	-	4.62
	Large	%	-	-	2.46
2.	Ownership of the establis	hments			
	Total	%	-	-	100.00
	Government owned	%	-	-	16.45
	Individual ownership	%	-	-	43.28
	Family partnership	%	-	-	5.72
	Partnership	%	-	-	11.01
	Joint venture	%			2.04
	Public and private Ltd. company	%	-	-	10.89
	NGO	%	-	-	2.70
	Others	%	-	-	7.91
3.	Percentage distribution of pollution prevention polic	of the establishr cy	nents which	developed an	d followed a
	Total	%	-	-	38.27
	Micro	%	-	-	34.20
	Small	%	-	-	45.86
	Medium	%	-	-	49.74
	Large	%	-	-	65.65
4.	Followed supply chain Establishments	management p	olicies in en	vironmental	practices by

SL.	Description	Measurement		Year			
N0.	Description	unit	2018-19	2019-20	2020-21		
1	2	3	4	5	6		
	Total	%	-	-	23.47		
	Micro	%	-	-	20.05		
	Small	%	-	-	28.80		
	Medium	%	-	-	31.96		
	Large	%	-	-	57.97		
5.	Appointed environmental permanent basis by Estab	l engineer or env blishments	v ironmental s	cientist on a f	ull-time and		
	Total	%	-	-	1.06		
	Micro	%	-	-	0.43		
	Small	%	-	-	1.55		
	Medium	%	-	-	1.96		
	Large	%	-	-	13.09		
6.	Distribution of establishments by main type of fuel used						
	Total	%	-	-	100.00		
	Electricity	%	-	-	65.99		
	GAS/CNG/LPG	%	-	-	5.88		
	Coal	%	-	-	11.19		
	Petroleum	%	-	-	0.68		
	Wood	%	-	-	2.77		
	Biogas	%	-	-	0.02		
	Solar energy	%	-	-	0.27		
	Others	%	-	-	1.44		
	Not applicable	%	-	-	11.77		
7.	Employment size of the es 30 of each year)	stablishments fo	r each of the	financial year	(as on June		
	Total	Number	5608545	5428629	5197943		
	Micro	Number	1831872	1686233	1360102		
	Small	number	1697944	1652973	1587695		
	Medium	Number	866786	866436	903188		
	Large	Number	1211943	1222988	1261638		
8.	Employment size per esta	blishment					
	Total	Number	44	43	41		
	Micro	Number	20	19	15		

SL.	Description	Measurement	Year			
No.	Description	unit	2018-19	2019-20	2020-21	
1	2	3	4	5	6	
	Small	Number	60	59	57	
	Medium	Number	148	148	154	
	Large	Number	388	391	404	
9.	Percentage distribution of	f female employ	ees by type of	the establish	ments	
	Total	Percentage	24.28	24.24	24.91	
	Micro	Percentage	18.74	17.64	19.00	
	Small	Percentage	17.39	17.71	17.92	
	Medium	Percentage	23.39	23.04	23.01	
	Large	Percentage	42.96	42.99	43.13	
10.	Wages and salaries of the	employees per o	capita per mo	nth		
	Total	Taka	26010.92	25198.33	25265.35	
	Micro	Taka	21345.45	21126.58	21266.35	
	Small	Taka	24830.73	24750.10	24625.76	
	Medium	Taka	28940.08	28348.17	27468.38	
	Large	Taka	31866.15	29551.01	31395.97	
11.	Environment Protection	Expenditure				
	Total	Million TK.	71368.33	67937.17	70004.37	
	Current expenditure	Million TK.	52291.38	51561.45	51456.36	
	Capital expenditure	Million TK.	19076.96	16375.72	18548.02	
12.	Resource Management Expenditure					
	Total	Million TK.	63253.64	58062.86	63951.73	
	Current expenditure	Million TK.	22592.02	20266.85	24272.89	
	Capital expenditure	Million TK.	40661.62	37796.00	39678.84	
13.	Environment and Resour	ce Management	Expenditure			
	Total	Million TK.	134621.97	126000.03	133956.10	
	Current	Million TK.	74883.40	71828.30	75729.25	
	Capital	Million TK.	59738.58	54171.72	58226.86	
14.	Environment Protection	Expenditure as a	n percentage o	f GDP		
	Total	Percentage	0.28	0.26	0.25	
	Current	Percentage	0.20	0.19	0.18	
	Capital	Percentage	0.07	0.06	0.07	
15.	Resource Management E	xpenditure as a	percentage of	GDP		

SL.	Description	Measurement		Year	
No.	Description	unit	2018-19	2019-20	2020-21
1	2	3	4	5	6
	Total	Percentage	0.25	0.22	0.23
	Current	Percentage	0.09	0.08	0.09
	Capital	Percentage	0.16	0.14	0.14
16.	Environment Protection a	and Resource Ma	anagement Ex	xpenditure as	a percentage
	of GDP	1			
	Total	Percentage	0.52	0.47	0.48
	Current	Percentage	0.29	0.27	0.28
	Capital	Percentage	0.23	0.20	0.20
17.	Environment Protection	Expenditure per	capita		
	Total	Taka	443.36	397.47	416.20
	Current	Taka	317.82	308.03	306.07
	Capital	Taka	125.54	89.43	110.13
18.	Resource Management E	xpenditure per o	capita		
	Total	Taka	384.45	348.81	379.72
	Current	Taka	137.31	121.75	144.12
	Capital	Taka	247.14	227.06	235.59
19.	Environment Protection a	and Resource M	anagement E	xpenditure pe	er capita
	Total	Taka	818.22	756.94	795.37
	Current	Taka	455.14	431.50	449.65
	Capital	Taka	363.09	325.43	345.72
20.	Environment Protection	n Expenditure	by domain		
	Total	%	100.00	100.00	100.00
	Solid waste management (excluding medical and e- waste)	%	26.58	27.65	27.42
	Wastewater management	%	26.56	26.14	26.94
	Abatement of air pollution	%	7.22	5.62	6.35
	Protection and remediation of soil, ground water and surface water	%	4.05	4.58	3.84
	Biodiversity and habitat protection	%	4.30	4.35	5.01
	Noise and vibration abatement	%	3.83	3.38	2.88
	Protection against radiation	%	1.98	1.64	1.44

SL.	Description	Measurement		Year	
No.	Description	unit	2018-19	2019-20	2020-21
1	2	3	4	5	6
	Management of medical waste	%	6.15	6.17	6.12
	Management of e-waste	%	3.30	3.56	3.86
	Research and development related to environmental protection	%	1.16	1.32	1.48
21	Other types of expenditure on environmental protection (not classified in the above)	%	14.87	15.61	14.65
21.	Resource management ex	penditure by ex	penditure do	main	
	Total	%	100.00	100.00	100.00
	Management and conservation of water resources	%	28.36	25.38	29.04
	Management and conservation of natural forest	%	12.20	13.73	15.98
	Management and conservation of wild flora and fauna	%	16.17	10.07	14.01
	Energy resource management	%	24.89	20.81	21.12
	Management and conservation of mineral resources	%	16.39	27.40	17.10
	Research and development related to natural resource management and conservation	%	0.32	0.33	0.39
	Other activities related to natural resource management and conservation	%	1.67	2.27	2.37
22.	Waste Management by E	stablishments			
	Hazardous waste generated	Million ton	3.23	3.01	3.23
	Hazardous waste treated	Million ton	0.0053	0.0052	0.0052
	Hazardous waste treated as a percentage of hazardous waste generated	Percentage	0.16	0.17	0.16
	Wastewater generated	Million cubic meters	3279.85	2823.27	3118.37

SL.	Description	Measurement		Year	
No.	Description	unit	2018-19	2019-20	2020-21
1	2	3	4	5	6
	Wastewater flow treated	Million cubic meters	1217.87	1067.60	1174.46
	Wastewater flow treated as a percentage of total wastewater	Percentage	37.13	37.81	37.66
	Industrial waste water enters the environment without any treatment	percentage	62.87	62.19	62.34
	Waste generated (solid waste)	Million metric ton	20.65	20.47	20.41
	Waste recycled	Million metric ton	5.14	5.0 5	5.25
23.	Current Environment Classification (ISIC.Rev.4	Protection by 4)	Internatio	nal Standar	d Industry
	Total	%	100.00	100.00	100.00
	Agriculture Forestry and Fishing	%	1.68	1.61	1.48
	Mining and Quarrying	%	0.12	0.10	0.09
	Manufacturing	%	46.61	47.12	48.36
	Electricity Gas Steam and Air Conditioning Supply	%	2.56	2.40	2.32
	Water Supply Sewerage Waste Management and Remediation Activities	%	0.16	0.15	0.13
	Construction	%	0.31	0.30	0.27
	Wholesale and Retail Trade Repair of Motor Vehicles and Motorcycles	%	1.70	1.48	1.63
	Transportation and Storage	%	2.47	2.58	2.32
	Accommodation and Food Service Activities	%	7.72	7.92	7.68
	Information and Communication	%	0.41	0.38	0.36
	Finance Insurance Activities	%	6.51	6.45	5.96
	Real Estate Activities	%	0.32	0.35	0.33
	Professional Scientific and Technical Activities	%	0.75	0.73	0.67

SL.	Description	Measurement		Year	
No.	Description	unit	2018-19	2019-20	2020-21
1	2	3	4	5	6
	Administrative and Support Service Activities	%	0.30	0.28	0.28
	Public Administration and Defence Compulsory Social Security	%	7.95	7.86	7.86
	Education	%	5.39	4.96	5.16
	Human Health and Social Work Activities	%	13.05	13.25	12.91
	Arts Entertainment and Recreation	%	0.09	0.09	0.07
	Other Service Activities	%	1.88	1.97	2.11
24.	Capital Environment Pro (ISIC.Rev.4)	tection by interr	national stand	ard industry	classification
	Total	%	100.00	100.00	100.00
	Agriculture Forestry and Fishing	%	2.79	0.69	1.58
	Mining and Quarrying	%	0.01	0.00	0.00
	Manufacturing	%	66.05	70.13	63.77
	Electricity Gas Steam and Air Conditioning Supply	%	3.92	4.88	5.17
	Water Supply Sewerage Waste Management and Remediation Activities	%	0.09	0.16	0.17
	Construction	%	1.18	1.54	1.29
	Wholesale and Retail Trade Repair of Motor Vehicles and Motorcycles	%	1.27	1.30	1.32
	Transportation and Storage	%	0.58	0.38	0.48
	Accommodation and Food Service Activities	%	2.99	1.58	1.65
	Information and Communication	%	0.17	0.10	0.10
	Finance Insurance Activities	%	2.66	1.90	2.11
	Real Estate Activities	%	0.55	1.76	1.44
	Professional Scientific and Technical Activities	%	0.59	0.22	0.21
	Administrative and Support Service Activities	%	0.11	0.11	0.14

SL.	Description	Measurement		Year	
N0.	Description	unit	2018-19	2019-20	2020-21
1	2	3	4	5	6
	Public Administration and Defence Compulsory Social Security	%	2.09	3.32	5.30
	Education	%	2.78	1.85	4.87
	Human Health and Social Work Activities	%	11.07	8.78	9.13
	Arts Entertainment and Recreation	%	0.01	0.02	0.01
	Other Service Activities		1.08	1.28	1.26
25	Current Resource Manag classification (ISIC.Rev.4	gement Expendit	ture by intern	ational stand	ard industry
	Total	%	100.00	100.00	100.00
	Agriculture Forestry and Fishing	%	0.33	0.93	0.68
	Mining and Quarrying	%	0.43	0.45	0.30
	Manufacturing	%	56.37	48.07	49.28
	Electricity Gas Steam and Air Conditioning Supply	%	19.09	19.61	19.58
	Water Supply Sewerage Waste Management and Remediation Activities	%	1.79	2.03	2.41
	Construction	%	0.34	0.39	0.17
	Wholesale and Retail Trade Repair of Motor Vehicles and Motorcycles	%	2.19	2.53	1.01
	Transportation and Storage	%	0.32	0.34	0.23
	Accommodation and Food Service Activities	%	0.59	0.46	0.42
	Information and Communication	%	0.05	0.11	0.11
	Finance Insurance Activities	%	1.52	2.98	2.87
	Real Estate Activities	%	0.00	0.00	0.02
	Professional Scientific and Technical Activities	%	0.52	0.91	1.10
	Administrative and Support Service Activities	%	0.00	0.00	0.00

SL.	Description	Measurement		Year	
No.	Description	unit	2018-19	2019-20	2020-21
1	2	3	4	5	6
	Public Administration and Defence Compulsory Social Security	%	8.25	11.61	12.70
	Education	%	1.72	1.64	1.68
	Human Health and Social Work Activities	%	3.58	3.41	3.24
	Arts Entertainment and Recreation	%	0.00	0.00	0.00
	Other Service Activities	%	2.91	4.52	4.21
26.	Capital Resource Manag classification (ISIC.Rev.4	ement Expendit)	ure by intern	ational stand	ard industry
	Total	%	100.00	100.00	100.00
	Agriculture Forestry and Fishing	%	3.29	0.46	1.52
	Mining and Quarrying	%	0.02	0.01	0.01
	Manufacturing	%	60.83	73.68	57.76
	Electricity Gas Steam and Air Conditioning Supply	%	3.57	3.89	3.66
	Water Supply Sewerage Waste Management and Remediation Activities	%	6.28	6.22	7.37
	Construction	%	0.01	0.01	0.02
	Wholesale and Retail Trade Repair of Motor Vehicles and Motorcycles	%	0.14	0.03	0.01
	Transportation and Storage	%	0.55	0.09	0.08
	Accommodation and Food Service Activities	%	0.59	0.31	0.28
	Information and Communication	%	0.25	0.06	0.08
	Finance Insurance Activities	%	0.31	0.21	0.32
	Real Estate Activities	%	0.41	0.48	0.63
	Professional Scientific and Technical Activities	%	0.32	0.20	0.39
	Administrative and Support Service Activities	%	7.38	4.95	11.30

SL.	Description	Measurement		Year	
No.	Description	unit	2018-19	2019-20	2020-21
1	2	3	4	5	6
	Public Administration and Defence Compulsory Social Security	%	1.69	1.37	2.60
	Education	%	5.36	1.56	5.43
	Human Health and Social Work Activities	%	2.69	1.01	1.18
	Arts Entertainment and Recreation	%	0.00	0.00	0.00
	Other Service Activities	%	6.30	5.45	7.35
27.	Effluent Treatment Plants by Establishments	s (ETP) or Air T	reatment Pla	nts (ATP) in f	full operation
	Total	%	-	-	1.62
	Micro	%	-	-	0.62
	Small	%	-	-	2.41
	Medium	%	-	-	5.09
	Large	%	-	-	16.65
28.	Modern Technology and	Equipment used	l by Establish	ments	
	Total	%	-	-	4.51
	Transportation for waste	%	-	-	8.93
	Container for waste collection	%	-	-	82.83
	Air classifier and magnetic separator	%	-	-	0.92
	Centrifugal composter	%	-	-	0.18
	Equipment for landfill gas management	%	-	-	0.77
	Skimmer for oil separator	%	-	-	0.44
	Skimmer used in the sewerage	%	-	-	4.72
	Use of chemicals in industrial wastewater treatment	%	-	-	2.25
	Use of chemicals in sewage treatment	%	-	-	29.20
	Membrane bioreactor	%	-	-	0.25
	Anaerobic digestor	%	-	-	0.16

SL.	Description	Measurement		Year	
No.	Description	unit	2018-19	2019-20	2020-21
1	2	3	4	5	6
	Gas absorber, gas flare or incinerator	%	-	-	0.91
	Contamination recovery condenses	%	-	-	0.71
	Carbon coal processing technology	%	-	-	1.00
	Carbon capture technology	%	-	-	0.56
	Air and off-gas purification technology	%	-	-	0.48
	Greenhouse gas control technology	%	-	-	1.23
	Environmental monitoring technology	%	-	-	0.78
	Highly efficiency burner and boiler	%	-	-	4.16
	High efficiency pump and motor	%	-	-	14.38
	Combined heat and power generation technology	%	-	-	1.92
	Energy efficient filter and process	%	-	-	1.24
	Advance insulation	%	-	-	2.93
	Equipment for pumped hydro system	%	-	-	1.51
	Equipment for compressed air system	%	-	-	1.49
	Super conducting magnetic energy	%	-	-	0.26
	Electric vehicles	%	-	-	0.53
	Fuel cell vehicles	%	-	-	3.86
	Wind turbine equipment	%	-	-	0.32
	Turbine and related equipment for wave and tidal	%	-	-	0.12
	Active solar-electricity generation equipment	%	-	-	3.64
	Bio-fuel reactors	%	-		1.15
	Storage systems associated with bioenergy production	%	-	-	0.13

SL.	Description	Measurement	Year		
N0.		unit	2018-19	2019-20	2020-21
1	2	3	4	5	6
	Combined heat and power bioenergy system	%	-	-	0.11
	Biomass fire industrial boiler	%	-		0.42
	Equipment related to energy production from liquid organic waste	%	-	-	0.22
	Equipment related to solid organic waste treatment	%	-	-	0.38
	Nuclear reactors and nuclear islands	%	-	-	0.19

02. Municipal Waste Management (MWM) Survey 2022

Background

Now a days, rapid urbanization with modern living has resulted a huge volume of waste, especially the solid waste. As a result, waste management issues have become increasingly serious over the last few decades. Like in many developing countries, unplanned industrial expansion in urban areas is also responsible for the degradation of the urban and semi-urban environments in the country. In a consequence of this, waste management has become a crucial concern in urban areas of Bangladesh.

The safe and environmentally sound management of waste is vital to prevent adverse health and environmental impacts from such waste. In addition to its importance for maintaining and improving public health, there is a huge potential for resource recovery through urban waste management.

In Bangladesh, City corporations and Paurasavas are entrusted with the primary responsibility for managing waste in their cities and keeping the cities clean and environmentally in good shape.

There is little to no quantitative and qualitative detailed study of waste, despite the necessity for reliable and timely data on a variety of waste-related topics in order to forecast waste management strategies, environmental performance, and economic benefits. This has made it difficult to plan waste management properly. The lack of proper planning and inadequate waste management make a country's environmental protection policy for sustainable development practically difficult to achieve.

In this context, the Bangladesh Bureau of Statistics (BBS) planned to conduct a detailed study to collect data from all Paurasavas and City Corporations regarding the composition of the waste, the mode and frequency of waste collection, treatment, disposal, and recycling, and the per capita generation of waste for three consecutive financial years (2018-19 to 2020-21).

Objective of the study

The broad objective of this study was to assess the existing overall waste management scenario and the waste collection efficiency of the municipalities (City corporations and Paurasavas) in the country. The specific objectives of this study are the following:

- To measure the amount of municipal solid waste generated by type of source waste type, source, and composition.
- To measure the quantity of municipal solid waste managed through controlled *facilities;*

- To measure the quantity of municipal solid waste recycled and reused by municipalities;
- To measure the quantity of wastewater produced in and treated by municipalities;
- To measure the hazardous waste produced in and treated, and recycled by municipalities;
- To conduct a landfill operation investigation (managed and controlled by municipalities);
- To conduct a transfer station operation investigation (managed and controlled by municipalities);
- To conduct a compost plant operation investigation (managed and controlled by municipalities);
- To assess the scenario of the final disposal of collected of municipal solid waste; and finally
- To generate the SDG indicator 11.6.1.

Coverage of the study

All City Corporations and Paurasavas currently functioning in the country were investigated for data collection. Under this detailed study's data collected from 12 City Corporation and 330 Municipalities.

Data collection method

Face-to-face interviews with respondents (Responsible Officials) were used to collect data by smart digital system with mobile device management (MDM) software.

Key findings of the study

Provisional key findings of the study are appended below in tabular form.

SL No.	Description	Measurement Unit	2018-19	2019-20	2020-21
1	2	3	4	5	6
1.	Types of municipalities				
	Total Municipalities	Number	-	-	342
	City Corporation	Number	-	-	12
	Paurasava	Number	-	-	330
2.	Total Population	Million	37.90	39.18	40.50
	City Corporation	Million	18.95	19.75	20.58
	A-Category Paurasava	Million	14.61	15.01	15.42
	B- Category Paurasava	Million	3.08	3.15	3.21
	C-Category Paurasava	Million	1.25	1.27	1.29
3.	Total area of municipalities	Sq. K.M.	-	-	6820.66
	City Corporation	Sq. K.M.	-	-	1435.55
	A-Category Paurasava	Sq. K.M.	-	-	3426.50

SL	Denseintien	Measurement	2019 10	2010 20	2020 21
No.	Description	Unit	2018-19	2019-20	2020-21
1	2	3	4	5	6
	B- Category Paurasava	Sq. K.M.	-	-	1349.16
	C-Category Paurasava	Sq. K.M.	-	-	609.45
4.	Population per sq. kilomete	r			
	All municipalities	Number	5557	5744	5939
	City Corporation	Number	13204	13758	14336
	A-Category Paurasava	Number	4263	4381	4501
	B- Category Paurasava	Number	2286	2332	2380
	C-Category Paurasava	Number	2058	2087	2117
5.	Employment size (Full-time	and permanent),	as of 30 June 20	021	
	All Municipalities	Number	-	-	20105
	City Corporation	Number	-	-	7574
	A-Category Paurasava	Number	-	-	9864
	B- Category Paurasava	Number	-	-	2112
	C-Category Paurasava	Number	-	-	555
6.	Full-time employees exclusi	vely engaged in	waste manager	nent as a % of	
	total employees, as of June	30, 2021			
	All Municipalities	%	-	-	37.99
	City Corporation	%	-	-	54.67
	A-Category Paurasava	%	-	-	30.15
	B- Category Paurasava	%	-	-	21.21
	C-Category Paurasava	%	-	-	13.33
7.	Distribution of sex composi	tion of full-time	and permanent	t employees	
	a) All municipalities	%	-	-	
	Male				78.80
	Female	%	-	-	21.20
	b) City Corporation				
	Male	%	-	-	69.67
	Female	%	-	-	30.33
	c) A-Category Paurasava				
	Male	%	-	-	84.05
	Female	%	-	-	15.95
	d) B-Category Paurasava	%			
	Male	%	-	-	85.18
	Female	%	-	-	14.82
	e) C-Category Paurasava	%	-	-	
	Male	%	-	-	85.77
	Female	%	-	-	14.23
8.	Distribution of employee	engaged in p	ublic health r	isk reduction	
	activities, as of June 30, 202	1			
	Total Municipalities	Number	-	-	388
	A. City corporation	Number	-	-	125

SL	Deconintion	Measurement	2019 10	2019-20	2020-21
No.	Description	Unit	2010-19	2019-20	2020-21
1	2	3	4	5	6
	Environmental scientist/	Number	-	-	31
	engineer				
	Health officer	Number	-	-	35
	Environment officer/ waste	Number	-	-	59
	management officer				
	Entomologist	Number	-	-	0
	B. Paurasava	Number	-	-	263
	Environmental	Number	-	-	14
	scientist/engineer				
	Health officer	Number	-	-	166
	Environment officer/waste	Number	-	-	83
	management officer				
	Entomologist	Number	-	-	0
9.	Population per employee en	gaged in public	health risk red	uction activities	5
	City corporation	Number	-	-	6 6 6 0 0 0 1
	Environmental	Number	-	-	663891
	scientist/engineer	X1			5 00010
	Health officer	Number	-	-	588018
	Environment officer/waste	Number	-	-	348824
	management officer	Nearthan			
	Paurasava	Number	-	-	1402150
	Environmental	Number	-	-	1423159
	Health officer	Number			120025
	Finite Fi	Number	-	-	240051
	management officer	number	-	-	240031
10	Distribution of female empl	overs engaged i	n nublic boolth	risk reduction (octivities
10.	A City comparation		n public nearth	TISK TEUUCION A	
	A. City corporation	90 04	-	-	9.68
	engineer	70	-	-	2.00
	Health officer	0/2	_	_	25 71
	Environment officer/ waste	/0	_		5.08
	management officer	70			5.00
	R. Paurasava	%	_	_	26.24
	Environmental	%	-	-	0.00
	scientist/engineer	70			
	Health officer	%	-	_	38.55
	Environment officer/waste	%	-	-	6.02
	management officer				
11.	Compensation of Employee	s (full-time and	permanent em	oloyee)	
	All municipalities	Million TK	9170 54	9051 57	9413 18
	City corporation	Million TK	4123 12	4156 33	4146.80
	ony corporation	within the	1123.12	1150.55	140.00

SL	Decovintion	Measurement	2010 10	2010 20	2020 21		
No.	Description	Unit	2018-19	2019-20	2020-21		
1	2	3	4	5	6		
	A-Category Paurashavas	Million TK.	4027.86	3885.5	4229.14		
	B-Category Paurashavas	Million TK.	852.02	830.72	838.82		
12.	C-Category Paurashavas	Million TK.	167.54	179.02	198.42		
	Compensation of employees	s per capita per	month, 2020-21				
	All municipalities	TK.	-	-	39016.75		
	City corporation	TK.	-	-	45625.39		
	A-Category Paurashavas	TK.	-	-	35728.74		
	B-Category Paurashavas	TK.	-	-	33097.38		
	C-Category Paurashavas	TK.	-	-	29793.40		
13.	Budget (revised) of the mu	nicipalities					
	All municipalities	Million TK.	200718.31	225197.59	243722.56		
	City corporation	Million TK.	98395.70	129736.47	126344.04		
	A-Category Paurashavas	Million TK.	89112.36	80016.39	98072.48		
	B-Category Paurashavas	Million TK.	11034.60	12817.30	15831.38		
	C-Category Paurashavas	Million TK.	2175.65	2627.43	3474.65		
14.	Budget (revised) against wage management						
	All municipalities	%	2.66	2.37	3.33		
	City corporation	%	3.03	2.51	2.75		
	A-Category Paurashavas	%	2.35	2.24	4.36		
	B-Category Paurashavas	%	2.09	1.99	1.90		
	C-Category Paurashavas	%	1.95	1.48	1.86		
15.	Budget (revised) as a percentage of GDP						
	All municipalities	%	0.78	0.85	0.86		
	City corporation	%	0.38	0.49	0.45		
	A-Category Paurasava	%	0.35	0.30	0.35		
	B-Category Paurasava	%	0.04	0.05	0.06		
	C-Category Paurasava	%	0.01	0.01	0.01		
16.	Budget (revised) per capita						
	All Municipalities	TK.	5295.62	5747.65	6017.11		
	City corporation	TK.	5191.02	6568.58	6138.98		
	A-Category Paurasava	TK.	6099.87	5330.64	6358.66		
	B-Category Paurasava	TK.	3576.98	4072.59	4930.69		
	C-Category	TK.	1735.04	2065.78	2693.38		
17.	Expenditure of Municipalit	ies					
	All Municipalities	Million TK.	225295.22	281883.18	285390.54		
	City corporation	Million TK.	86182.52	134183.98	125703.06		
	A-Category Paurasava	Million TK.	124350.95	129036.46	139772.03		
	B-Category Paurasava	Million TK.	12158.44	15611.59	16084.58		
	C-Category	Million TK.	2603.31	3051.15	3830.61		
18.	Waste management expend	iture against to	tal expenditure				
	All Municipalities	Million TK.	18715.55	21133.92	22604.83		

SL	Decovintion	Measurement	2010 10	2010-20	2020-21
No.	Description	Unit	2018-19	2019-20	2020-21
1	2	3	4	5	6
		%	8.31	7.50	7.92
	City corporation	Million TK.	10794.55	12944.24	13611.89
		%	12.58	9.65	10.83
	A-Category Paurasava	Million TK.	6388.68	6695.04	```
		%	5.14	5.19	5.69
	B-Category Paurasava	Million TK.	1306.69	1210.78	1764.62
		%	10.75	7.76	10.97
	C-Category Paurasava	Million TK.	225.63	283.87	280.94
		%	8.67	9.30	7.33
19.	Expenditure per capita				
	All Municipalities	TK.	5944.04	7194.42	7045.82
	City corporation	TK.	4546.70	6793.75	6107.84
	A-Category Paurasava	TK.	8512.00	8596.33	9062.33
	B-Category Paurasava	TK.	3941.28	4960.45	5009.55
	C Category Paurasava	TK.	2076.09	2398.93	2969.30
20.	Waste management expend	iture per capita			
	All Municipalities	TK.	493.78	539.39	558.08
	City corporation	TK.	569.48	655.37	661.39
	A-Category Paurasava	TK.	437.31	446.02	515.40
	B-Category Paurasava	TK.	423.58	384.72	549.59
	C Category Paurasava	TK.	179.94	223.19	217.77
21.	Expenditure as a percentag	e of GDP			
	All Municipalities	%	0.88	1.06	1.01
	City corporation	%	0.34	0.51	0.44
	A-Category Paurasava	%	0.49	0.49	0.49
	B-Category Paurasava	%	0.05	0.06	0.06
	C Category Paurasava	%	0.01	0.01	0.01
22.	Expenditure as a percentag	e of Governmen	t spending (pur	chase of goods,	services and
	investment)				
	All Municipalities	%	5.78	6.70	6.12
	City corporation	%	2.21	3.19	2.70
	A-Category Paurasava	%	3.19	3.07	3.00
	B-Category Paurasava	%	0.31	0.37	0.35
	C Category Paurasava	%	0.07	0.07	0.08
23.	Waste management expend	iture as a perce	ntage of GDP		
	All Municipalities	%	0.07	0.08	0.08
	City corporation	%	0.04	0.05	0.05
	A-Category Paurasava	%	0.02	0.03	0.03
	B-Category Paurasava	%	0.01	0.00	0.01
0.4	C- Category Paurasava	%	0.00	0.00	0.00
24.	waste management expend	nure as a perce	ntage of the Gov	vernment spend	ing

SL	Description	Measurement	2010 10	2010 20	2020-21
No.	Description	Unit	2018-19	2019-20	2020-21
1	2	3	4	5	6
	All Municipalities	%	0.48	0.50	0.49
	City corporation	%	0.28	0.31	0.29
	A-Category Paurasava	%	0.16	0.16	0.17
	B-Category Paurasaya	%	0.03	0.03	0.04
	C Category Paurasava	%	0.01	0.01	0.01
25	Sources of Revenue of the n	nunicipalities	0.01	0.01	0101
25.	Total	<u>%</u>	100.00	100.00	100.00
	Government Revenue	/ 0 %	11.46	9.99	3.89
	Budget	/0	11.40).))	5.07
	Covernment Development	06	68.6	60.21	86 71
	Budget (CoP, TA, Grant	/0	08.0	09.21	00.71
	Loop etc.)				
	Doun etc.)	0/	0.00	0.12	0.05
	Revenue received from	%0	0.09	0.12	0.03
	Various filles and penalties	0/	9.04	9.65	2.00
	Revenue received from	%	8.94	8.05	3.90
	holding charges		1.02	1.00	0.07
	Revenue received from	%	1.03	1.00	0.37
	waste collection activities				
	Revenue received from	%	9.88	11.03	5.08
	other activities related to				
	waste collection				
26.	Municipalities having separ	ate wage manag	gement unit		
	All Municipality	%	-	-	53.24
	City corporation	%	-	-	100.00
	A-Category Paurashavas	%	-	-	59.07
	B-Category Paurashavas	%	-	-	42.11
	C-Category Paurashavas	%	-	-	37.50
27.	Generation of municipal so	lid waste	·		
	Total solid waste	Metric ton	8003627	7199224	7413839
	Of which Hazardous waste	Metric ton	468495	440559	497604
		%	5.85	6.12	6.71
	and e-Waste	Metric ton	169131	163418	169820
20	Weste generation per conit	%	2.11	2.27	2.29
20.	Solid mosts	Vilogram	0.590	0.500	0.500
	Solid waste	Kilogram	0.034	0.031	0.034
	and	Kilografii %	5.86	6.20	6.80
	e-Waste	Kilogram	0.012	0.20	0.011
	e waste	%	2.07	2.20	2.22
29.	Waste generation per day p	er sq. kilometer			
	All municipalities	Metric ton	3.21	2.89	2.98
	City corporation	Metric ton	7.50	6.24	6.77
	A-Category Paurasava	Metric ton	2.58	2.62	2.58
	B-Category Paurasava	Metric ton	1.33	1.23	1.29

SL No	Description	Measurement	2018-19	2019-20	2020-21
INU.		Unit			
1	2	3	4	5	6
	C-Category Paurasava	Metric ton	1.06	0.81	0.77
30.	Percentage distribution of s	olid waste by	100.00	100.00	100.00
	source	<u>.</u>	60.11	71.04	(2) (2)
	Residential activities	%	68.11	10.20	68.69
	Industrial activities	%	11.37	10.30	11.02
	activities	70	12.41	11.42	12.13
	Educational activities	%	1.25	0.97	1.21
	Hotel and restaurant related	%	4.92	3.60	4.92
	activities				
	Healthcare activities	%	0.97	0.93	0.97
	Road, park and other public	%	0.96	0.84	1.04
21	places				001 1
31.	Solid waste collection as a p	ercentage of sol	id waste genera	tion (collection	efficiency)
	All municipalities	%	78.31	74.83	80.63
	City corporation	%	92.79	92.61	96.96
	A-Category Paurashavas	%	63.84	56.11	61.57
	B-Category Paurashavas	%	62.31	62.05	63.87
	C-Category Paurashavas	%	63.35	77.40	87.73
32.	Weight composition of solid	Waste	100.00	100.00	100.00
	Food waste	%	19.33	20.21	19.25
	Textile	%	9.80	8.80	9.95
	Paper/ plywood / hardboard	%	20.98	18.85	18.36
	Leather and leather related	%	2.07	2.01	2.58
	product	<u>.</u>	1 < 57	16.50	10 45
	Plastic	%	16.57	16.58	17.65
	Glass	%	5.60	4.22	5.57
	Rubber (synthetic)	%	0.38	0.38	/.12
	product	70	10.02	0.00	9.49
	Agriculture Gardens	%	5.03	6.65	4 23
	Forests etc.	70	5.05	0.05	1.23
	Others	%	4.22	7.30	5.80
33.	Waste composition of organ	nic waste	100.00	100.00	100.00
	Food waste	%	32.58	34.60	33.34
	Textile	%	17.54	16.34	17.23
	Paper/ plywood / hardboard	%	31.17	30.17	31.80
	Leather and leather related	%	4.01	4.21	4.46
	product	0/	0.22	0 5 5	7 22
	Agriculture, Gardelis, Forests etc	%0	9.52	8.55	7.55
	Other organic waste	%	5.38	6.13	5.84
34.	Waste composition of inorg	anic waste	100.00	100.00	100.00
	Plastic	%	43.12	40.35	41.76
	Glass	%	11.50	12.79	13.18
	Rubber (synthetic)	%	17.80	17.07	16.85

SL	Description	Measurement	2010 10	2010 20	2020.21
No.	Description	Unit	2018-19	2019-20	2020-21
1	2	3	4	5	6
	Metal and metal related	%	21.38	22.02	22.46
	product	0/	C 00		
	Other inorganic waste	%	6.20	1.11	5.75
35.	Ward covered by waste coll	ection activities	(0.01		=0.00
	All municipalities	% 0	69.21	71.57	72.33
	City corporation	%	85.59	91.40	91.83
	A-Category Paurasava	%0 0/	74.03	70.38	56 72
	C Category Paurasaya	90 96	51.67	57.22	58 33
36	Population covered by wast	/0 re collection acti	vities	51.22	50.55
50.	All municipalities		74 75	75 69	77.01
	City corporation	%	83.40	82.67	85.83
	A-Category Paurasaya	%	67.13	69.35	69.42
	B-Category Paurasaya	%	62.45	61.48	64.15
	C-Category Paurasava	%	58.17	56.66	59.11
37.	Landfill operation cost per	ton			
	All municipalities	TK.	2985.96	3923.23	5238.51
	City corporation	TK.	2959.50	4273.61	3957.91
	A-Category paurasava	TK.	3098.84	3634.59	4004.97
	B-Category Paurasava	TK.	3190.36	3211.30	4362.07
	C-Category Paurasava	TK.	1512.03	2043.45	1872.46
38.	Populations with access to b	pasic services			
	All municipalities				
	Solid waste collection	%	-	-	44.50
	through door-to-door				
	service at least one day a				
	week.	0/			20.71
	Solid waste collection from	%	-	-	39.71
	of 200 maters or less				
	regularly or specified days				
	of the week				
	City corporation				
	Solid waste collection		-	-	65.61
	through door-to-door				
	service at least one day a				
	week.				
	Solid waste collection from		-	-	58.04
	specific points at a distance				
	of 200 meters or less				
	regularly or specified days				
	of the week.				
	Solid waste collection	0/2		-	22.70
	through door-to-door	70	-	-	22.70
	service at least one day a				
	week.				
	Solid waste collection from	%	-	-	20.78
	specific points at a distance				

SL	D	Measurement			
No.	Description	Unit	2018-19	2019-20	2020-21
1	2	3	4	5	6
-	of 200 meters or less				
	regularly or specified days				
	of the week.				
39.	Recycling rate (solid waste	recycled by mu	nicipalities exclu	iding waste rec	ycled by
	entities other than municipa	alities)			
	All municipalities	%	3.04	3.05	3.15
	City corporation	%	3.93	4.04	4.05
	A-Category Laurasia	%	2.42	2.35	2.46
	B-Category Paurasava	%	1.78	2.15	2.17
40	C- Category Paurasava	%	0.00	0.00	0.00
40.	Generation of domestic was	tewater per cap	oita		
	All Municipalities	Liter	71	70	71
	City corporation	Liter	72	70	71
	A-Category Paurasava	Liter	71	70	72
	B-Category Paurasava	Liter	67	68	68
	C-Category paurasava	Liter	69	68	69
41.	Treatment of wastewater as	s percentage of t	total wastewater		
	All Municipalities	%	0.018	0.019	0.019
	City corporation	%	0.029	0.031	0.031
	A-Category Paurasava	%	0.004	0.004	0.004
	B-Category Paurasava	%	0.001	0.001	0.002
	C-Category paurasava	%	0.000	0.000	0.000
42.	Waste water treatment as a	percentage of t	otal wastewater	by type of trea	tment
	Total	%	100.00	100.00	100.00
	Primary treatment	%	85.23	84.63	84.65
	Secondary treatment	%	14.77	15.37	15.35
10	Tertiary treatment	%	0.00	0.00	0.00
43.	Wastewater reused as a per	centage of total	wastewater	0.00	
	All Municipalities	%	0.02	0.02	0.02
	City corporation	%	0.03	0.03	0.03
	A-Category Paurasava	%	0.02	0.02	0.02
	B-Category Paurasava	%	0.02	0.02	0.02
4.4	C-Category paurasava	%		0.00	0.00
44.	i reatment of nazardous wa	ste as a percent	age of total haza	ardous waste	1.00
	All Municipalities	%	1.04	1.27	1.30
	City corporation	%	2.10	2.59	2.69
	A-Category Paurasava	%	0.06	0.08	0.11
	B-Category Paurasava	%	0.00	0.00	0.00
45	C-Category paulasava	%	0.00	0.000	0.00
45.	City corporation				
	Total landfill	Number	10	20	20
	Sanitary landfill	Number	19	20	20
	L andfill without the scope	Number	16	17	17
	of covering and compaction	Tumber	10	17	17
	Landfill with the scope of	Number	2	2	2
	covering and compaction		2	2	2
	Total area of landfill (acre)	Acre	347.70	452.00	452.00

SL	Decorintion	Measurement	2018 10	2010-20	2020-21
No.	Description	Unit	2010-19	2019-20	2020-21
1	2	3	4	5	6
	Average area per landfill	Acre	18.30	22.60	22.60
	City Corporation with gas	Number	0	0	0
	collection facilities in				
	landfill				
	City corporations that used	Number	0	0	0
	landfill gas to generate				
	electricity (number)				
	Paurasava		101		1.5.1
	Total landfill	Number	421	432	464
	Sanitary landfill	Number	8	11	11
	Landfill without the scope of covering and compaction	Number	403	408	443
	Landfill with the scope of	Number	10	13	20
	covering and compaction				
	Total area of landfill	Acre	295.00	308.00	311.00
	Average area per landfill	Acre	0.70	0.71	0.67
	City Corporation with gas	Number	0	1	1
	collection facilities in				
	landfill				
	City corporations that used	Number	0	0	0
	landfill gas to generate				
	electricity (number)				
46.	Operation analysis of trans	fer station			
	City corporation				
	Total transfer stations	Number	152	156	170
	Total area of transfer stations	Sq. meter	97078	105078	131128
	Area per transfer station	Sq. meter	638.67	673.58	771.34
	Transfer stations having	Number	0	0	0
	waste weighing facilities				
	Transfer stations having	Number	0	0	0
	waste compaction facilities				
	Transfer stations having	Number	0	0	0
	waste segregation facilities				
	Transfer stations where	Number	0	0	0
	odor prevention measures				
	are taken				
	Paurasava				
	Total transfer stations	Number	220	238	256
	Total area of transfer	Sq. meter	54364	55053	87628
	stations	Co. materia	047.11	021.22	240.20
	Area per transfer station	Sq. meter	247.11	231.32	342.30
	Transfer stations having	Number	0	0	0
	Transfer staticas having	Number	0	0	0
	waste compaction facilities	Inumber	0	0	0
	Transfer stations having	Number	0	0	0
	waste segregation facilities	Tumber	0	0	0

SL	Decorintion	Measurement	2019 10	2010-20	2020-21
No.	Description	Unit	2010-19	2019-20	2020-21
1	2	3	4	5	6
	Transfer stations where	Number	0	0	0
	odor prevention measures				
	are taken (number)				
47.	Operation analysis of comp	ost plant			
	City corporation				
	Total compost plant	Number	2	2	2
	Area of compost plant	Sq. meter	2100	2100	2100
	Area per compost plant	Sq. meter	1050	1050	1050
	Compost prepared per day	Metric ton	6	6	6
	Number of days compost	Number	6	6	6
	prepared per week		1070	1070	1070
	Composed prepared per	Metric Ton	18/8	18/8	18/8
	year B aaraa				
	Tatal compact plant	Numbor	0	0	0
	A rea of compost plant	Number	o	61010	o
	Area per compost plant	Sa motor	7627.38	7627.38	7627.38
	Compost propored par day	Sq. meter	7027.38	7027.38	200
	Number of days compost	Number	509		509
	prepared per week	Number	0	0	0
	Composed prepared per	Metric Ton	96717	96717	96717
	vear	incure 10ii	20111	20111	20111
48.	Mode of final disposal of so	lid waste collect	ion		
	All municipalities	%	100.00	100.0	100.00
	Dumping in landfills	%	69.30	68.39	68.23
	(managed and controlled by				
	city corporation/ piassava)				
	Dumping in locations near	%	1.18	1.24	1.24
	a river or canal that cannot				
	be considered as designated				
	landfills				
	Incineration	%	0.35	0.36	0.36
	Recycling	%	3.90	3.88	3.90
	Other types of disposals	%	24.30	25.67	25.89
	(burial in a pit, burning in				
	open places, taken by				
	through correction agreement)				
	City corporation	0/_	100.00	100.00	100.00
	Dumping in landfills	/0	81.02	70.01	78.03
	(managed and controlled by	/0	01.02	17.71	10.93
	city corporation/ piassava)				
	Dumping in locations near		0.07	0.07	0.07
	a river or canal that cannot		0.07	0.07	0.07
	be considered as designated				
	landfills				
	Incineration		0.00	0.00	0.00
	Recycling		4.20	4.24	4.18

SL	Description	Measurement	2018-19	2019-20	2020-21	
NO.		Unit				
1	2	3	4	5	6	
	Other types of disposals		13.28	15.12	16.07	
	(burial in a pit, burning in					
	open places, taken by					
	another organization					
	Paurasava	0/2	100.00	100.00	100.00	
	Dumping in landfills	/ 0 %	56.85	57 14	58.06	
	(managed and controlled by	70	20.02	57.11	50.00	
	city corporation/ piassava)					
	Dumping in locations near	%	1.89	1.95	1.99	
	a river or canal that cannot					
	be considered as designated					
	landfills	<u> </u>	0.60	0.60	0.60	
	Incineration	%	0.68	0.69	0.68	
	Recycling	%	3.39	3.70	3.53	
	Other types of disposals	%	36.72	36.59	35.77	
	(burial in a pit, burning in					
	another organization					
	through service agreement)					
49.	Waste management plan of municipalities as of 30 June 2021					
	City corneration	0/-				
	Short-term planning (less	⁷⁰	_	-	33 33	
	than one year)	70			55.55	
	Annual planning	%	-	-	66.66	
	Other periodic planning	%	-	-	33.33	
	Paurasava		-	-	33.33	
	Short-term planning (less	%	-	-	24.70	
	than one year)					
	Annual planning	%	-	-	55.49	
	Other periodic planning	%	-	-	13.11	
50.	Monitoring and evaluation	of waste manag	ement activities		[
	City corporation	0/			01.77	
	Regular monitoring and	%	-	-	91.67	
	evaluation of waste					
	Supervision of waste	0%	_	_	100.00	
	management personnel is a	70	_	-	100.00	
	regular practice					
	Private sector waste	%	-	-	75.00	
	management activities are					
	regularly inspected					
	Regular fitness tests on	%	-	-	100.00	
	vehicles used for					
	transporting solid waste					
1	Paurasava					

SL		Measurement	2010 10	0010 00	2020 21
No.	Description	Unit	2018-19	2019-20	2020-21
1	2	3	4	5	6
	Regular monitoring and	%	-	-	57.62
	evaluation of waste				
	management activities				
	Supervision of waste	%	-	-	58.23
	management personnel is a				
	regular practice				
	Private sector waste	%	-	-	24.39
	management activities are				
	regularly inspected	0/			54.57
	vehicles used for	%	-	-	54.57
	transporting solid waste				
51	Training and public awarer	less nrogramme			
51.	City corporation				
	Employee training	Number	147	151	183
	programme related to waste				
	management				
	Persons participated	Number	6480	6355	6930
	Public awareness	Number	84	60	41
	programme related to waste				
	management				
	Paurasava				
	Employee training	Number	475	580	621
	programme related to waste				
	Demogra porticipate d	Number	19042	10657	21542
	Persons participated	Number	18942	19657	21543
	Public awareness	Number	1508	1200	1524
	management				
52	Challenges and barriers per	ceived by muni	cinalities		
52.	City corporation		cipulities		
	Lack of Public Awareness	%	-	-	100.00
	Inadequate landfill site	-	-	-	91.67
	Lack of space required for	%	-	-	75.00
	setting up a new landfill				
	through proper design				
	Lack of financial and	%	-	-	58.33
	administrative decision-				
	making capacity				
	Inadequate budget	%	-	-	91.67
	Inadequate infrastructure	%	-	-	75.00
	required for waste				
	management	0/			02.22
	Snortage of skilled human	%	-	-	85.33
	Popid urbanization and	0/			02.22
	scattered settlements	%0	-	-	83.33
	Lack of necessary vehicles	0/2	_	_	01.67
	and equipment	/0	_	-	91.07
	Lack of proper planning	%			58.33

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77 11
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28.06
20.70

SDG Indicators

SL.	Description	Measurement	Year			
No.		unit	2018-19	2019-20	2020-21	
1	2	3	4	5	6	
01	Indicator 12.4.2 (a): Hazardous waste generated per capita; (b) proportion of hazardous waste treated					
	Description	Measurement unit	2018-19	2019-20	2020-21	
	Hazardous waste generated in the country	Million ton	4.57	4.31	4.59	
	Industrial hazardous waste	Million ton	3.23	3.01	3.23	
	Municipal hazardous waste	Million ton	0.4684	0.4406	0.4976	
	Hazardous waste generated in rural Bangladesh (estimated)	Million ton	0.876	0.863	0.862	
	(A) Hazardous generated per capita	Kilogram	27.78	25.89	27.25	
	Hazardous waste generated per capita per day	Kilogram	0.08	0.07	0.07	
	Hazardous waste treated in the country	Million ton	0.0104	0.0108	0.012	
	Waste recycling by Establishments	Million ton	0.0053	0.0052	0.0052	
	Municipality	Million ton	0.0051	0.0056	0.0068	
	(B) Percentage of hazardous waste treated in the country	Percentage	0.23	0.25	0.26	
02 Indicator 6.3.1: Proportion of domestic and industrial waster treated				rial wastewate	r flow safely	
	Total wastewater generated in the country	Million cubic meters	6134.91	5629.51	5955.67	
	Industrial wastewater	Million cubic meter	3279.85	2823.27	3118.37	
	Municipality wastewater	Million cubic meter	1672.46	1616.51	1644.99	
	Rural households	Million metric ton	1182.60	1189.73	1192.31	

SL.	Description	Measurement	Year		
No.	Description	unit	2018-19	2019-20	2020-21
1	2	3	4	5	6
	Total wastewater flow treated in the country	Million cubic meter	1202.92	993.66	1134.45
	Wastewater flow treated by Establishments	Million cubic meter	1217.87	1067.60	1174.46
	Wastewater flow treated by Municipalities	Million cubic meter	0.30	0.30	0.31
	Wastewater flow treated in rural Bangladesh	Million cubic meter	0.00	0.00	0.00
	Proportion of wastewater flow safely treated	%	19.61	17.65	19.05
03	Indicator 12.5.1: Nation	nal recycling rate	, tons of mat	ter recycled	
	Waste generated in the country (solid waste)	Million metric ton	36.09	35.06	35.15
	Establishments	Million metric ton	20.65	20.47	20.41
	Municipality	Million metric ton	8.00	7.19	7.44
	Rural household	Million metric ton	7.44	7.40	7.30
	Waste recycled in the country	Million metric ton	5.38	5.27	5.48
	Establishments	Million ton	5.14	5.05	5.25
	Municipality	Million ton	0.24	0.22	0.23
	Rural households	Million ton	0.00	0.00	0.00
	National recycling rate (waste recycled/waste generated*100)	%	14.91	15.03	15.59
04	Indicator 11.6.1: Proportion of municipal solid waste collected and managed in controlled facilities out of total municipal solid waste generated				
	Municipal solid waste generated	Million metric ton	8.00	7.19	7.41
	Solid waste collected and managed in controlled facilities	Million metric ton	0.18	0.16	0.18
	Proportion of solid waste collected in controlled facilities	%	2.25	2.23	2.43

End

