

# Database on Municipal Solid waste management in the Asia-pacific Region (DaMSAR) - User Manual

## 1. Structure of the database

The database is in Excel format, and mainly consists of the following two parts:

- (1) Main Data Sheet named as “All data(2011-2019)” (referred to as “Main Data Sheet”) containing all data, supplementary notes and links to sub-sheets

Country	City/State/Province	Proportion of MSW collected (%)	Data on MSW generation		Ph (€)
			Total MSW generated (tons/day)	Population	
Bangladesh	Dhaka City	65.0	2,100		
Bangladesh	Dhaka City	66.0	3,000		
Bangladesh	Chittagong City	75.0	1,600		
Bangladesh	Dhaka City				
Bangladesh	Dhaka City		4,098	12,000,000	
Fiji	Lautoka market		2		
India	Kolkata Metropolitan Area		350	774,049	
India	Uttarpara-Kotrung municipality	75.0	70	159,147	
India	Baidyabati municipality	70.0	63	121,110	
India	Konnagar municipality	70.0	34	76,122	
India	Rishra municipality	60.0	53	124,577	
India	Serampore municipality	60.0	90	181,842	
India	Chamdani municipality	10.0	40	111,251	
India	Bangalore City		4,500	9,590,000	
Indonesia	Palembang City		998	1,589,780	
Indonesia	Balikpapan		485	648,869	

- (2) Sub-sheets containing information related to composition of waste

Category	Composition (%)
Kitchen waste	59.37
Paper (recyclable)	2.63
Paper (non-recyclable)	13.46
Textile	4.8
Grass & wood	1.64
Plastics (recyclable)	0.89
Plastics (non-recyclable)	7.26
Leather & rubber	0.79
Metal (recyclable)	0.21
Metal (non-recyclable)	0.01
Bottle & glass (recyclable)	1.12
Bottle & glass (non-recyclable)	0.15
Ceramic, stone and soil etc.	1.46
Domestic hazardous wastes	0.65
Sieve Remaining	3.76
Miscellaneous	1.8
TOTAL	100

## 2. Sub-sheet names and content

The names of the sub-sheets are categorized as follows.

Sub-sheet name	Information contained
"COM-ABC(20xx)-..."	Composition of household (HH) waste
"D-COM-ABC(20xx)- ..."	Composition of disposed waste

## 3. Country code

The Main Data Sheet and sub-sheet names contain 3-letter ISO-alpha3 country code (e.g. "ABC" in the table of "2. Sub-sheet names" section above). A complete list of the country code is available at <https://unstats.un.org/unsd/methodology/m49/>

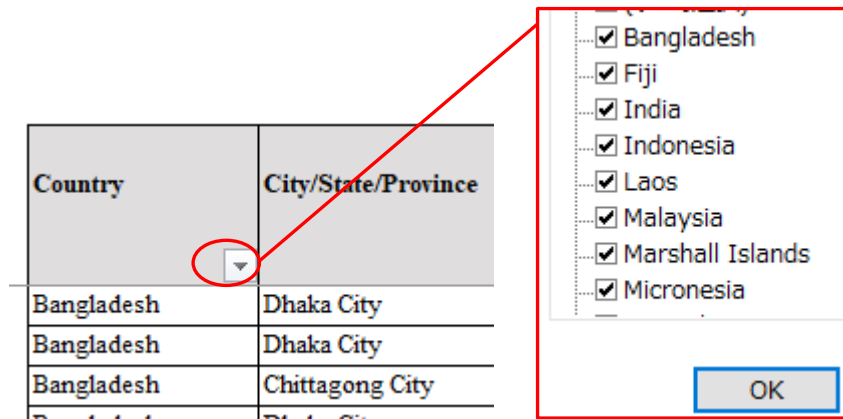
## 4. Information contained in the database

- + Proportion of MSW collected
- + Total MSW generated
- + Total MSW collected
- + Population
- + Per capita generation rate of household waste
- + Composition of household waste
- + Commercial/institutional waste, waste from public spaces, etc.
- + Quantities managed in recovery facilities
- + Quantities managed in disposal facilities
- + Composition of disposed waste
- + Recyclables extracted from designated disposal sites

## 5. Data search tips

### (1) How to find a country

Use pull-down menu to find and choose a country relevant to your search.



### (2) Where to find links to each sub-sheet

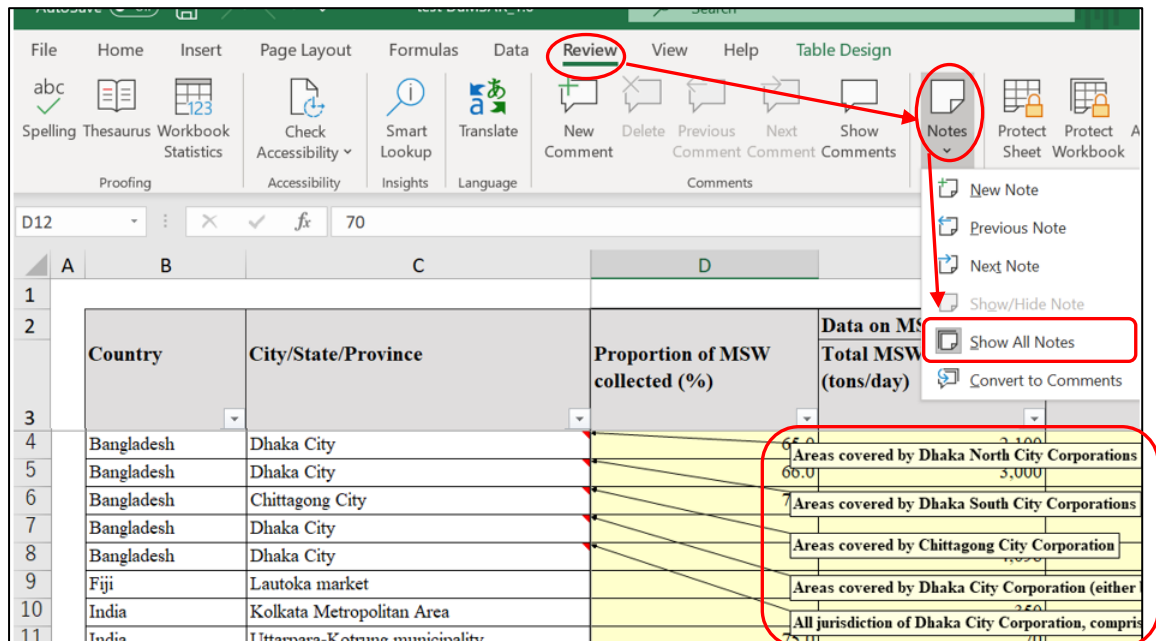
Sub-sheet names are listed in the Main Data Sheet under the data items “Composition of household waste” and “Composition of disposed waste.”

Country	City/State/Province	Data on MSW generation		Data on MSW management	
		Total MSW generated (tons/day)	Composition of household waste	Total MSW collected (tons/day)	Composition of disposed waste
Nepal	Kirtipur City	20			
Pakistan	Gujranwala City		<a href="#">Go to "COM-PAK(2015)-1"</a>		<a href="#">Go to "D-COM-PAK(2015)-2-2"</a>
Pakistan	Gujranwala City	1,200	<a href="#">Go to "COM-PAK(2015)-1-2"</a>	400	
Pakistan	Gujranwala City				<a href="#">Go to "D-COM-PAK(2015)-2-3"</a>
Palau	Palau	18			
Palau	Babeldaob Island		<a href="#">Go to "COM-PLW(2016)-1"</a>		
Palau	Babeldaob Island		<a href="#">Go to "COM-PLW(2016)-2"</a>		
Palau	Babeldaob Island		<a href="#">Go to "COM-PLW(2016)-2"</a>		
Palau	Koror State				
Papua New Guinea	National Capital	281			
Solomon Islands	Honiara				
Solomon Islands	Taru		<a href="#">Go to "COM-SLB(2016)-1"</a>		

### (3) How to find notes for the data

Some data cells include notes to explain the data.

Select “Review” tab on the top menu bar. Then, select “Notes” and “Show All Notes” to see notes.



## 6. Glossary

DDS: designated disposal site

MSN: municipal solid waste,

PCGR: Per capita generation rate

Source types: (i)Report, (ii)Journal Article, (iii)Other