

## **5IconSWM 2015 Excellence Awards for ULBs - QUESTIONNAIRE**

**Category of Town ( Please tick ✓ ) :** • A (population below 1,50,000) , • B (population 1,50,000 to 6,00,000)

➔ **•C (population above 6,00,000)**  Our ULB is interested to participate in the Municipal Award Competition for Excellence in SWM in IconSWM 2015. Followings are the information given for assessment. In case the ULB is shortlisted for the final round competition, the travelling and accomodation expenses will be borne by the ULB for the assessors who will come for the in situ assessment. The registration fee for participation of Rs. 25,000/- by D/D payable in favour of "ISWMAW" at Kolkata is attached herewith. Additional sheets for any other information and photiographs may be attached. Please find the filled in form for assessment.

<b>A. MUNICIPAL SOLID WASTE:</b>			
1	<b>Name of the Urban Local Body (ULB), website, if any</b>		
2	Postal address, e mail. Mobile of top management, fax, District, State:		
3	Total Area of ULB (in Sq Km):		
4	Demography:- ( as per 2001 census) (a) Total Population ..... (b) Total Slum Population ..... (c) Population Growth Rate (last decade) ..... (d) Number of Wards .....		
5	Detailed administrative Structure of the ULB:- <b>(Please tick)</b>	I) The town is a State Capital / District Head Quarter / Sub-divisional town/ others  lithe ULB is headed by Mayor/ Commissioner / Chief Executive Officer /Chairman/ Administrator / other (Please Specify)  iii)The ULB presently run by Elected Body / non-elected Body	
6	No. of Holdings	i) Residential ..... ii) Institutional ..... iii) Commercial ..... iv) Industrial ..... v) Others .....  <b>Total</b>	
7	No. of High Rise buildings ( more than 4 story) As per the RulesThe measuring parameter is by height in metre not Floor	<b>No.....;</b>	
7	Markets ( Please provide the list of daily markets and the quantity of market waste generated daily) Ownership needs to be defined and also	<b>Type</b>	<b>Nos.</b>
		Average Daily waste Quantity( IN MT)	
	Daily Markets		

	authorised or un authorised in brackets	<table border="1"> <tr> <td>Food &amp; Vegetable daily Markets</td> <td></td> <td></td> </tr> <tr> <td>Wholesale Commodity Market</td> <td></td> <td></td> </tr> <tr> <td>Commercial Complex</td> <td></td> <td></td> </tr> <tr> <td>Shopping Malls</td> <td></td> <td></td> </tr> <tr> <td>Others (e.g., Cinema halls, Educational Institutes etc )</td> <td></td> <td></td> </tr> <tr> <td>Total</td> <td></td> <td></td> </tr> </table>	Food & Vegetable daily Markets			Wholesale Commodity Market			Commercial Complex			Shopping Malls			Others (e.g., Cinema halls, Educational Institutes etc )			Total		
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Total																				
8	Industries,	i) Large Scale Nos.. ..... Daily Waste Quantity (in MT) ..... ii) Medium Scale Nos.. .....Daily Waste Quantity (in MT) ..... iii) Small Scale No..... Daily Waste Quantity (in MT) ..... iv) Tinny/ Cottage Nos.. .....Daily Waste Quantity (in MT) .....																		
9	How many big parks are there in your city?  What do you do with the waste of those parks:																			
10	No. of Hotels and Rooms capacity Daily waste Generated	<b>A. Five , four , three Star Hotels</b> i) No. .... ii) No. of Beds..... iii)Quantity of Daily Waste .....MT  <b>B. Two or one Star Hotels</b> i) No. .... ii) No. of Beds..... iii)Quantity of Daily Waste .....MT.  <b>C. Other Hotels</b> i) No. .... ii) No. of Beds..... iii)Quantity of Daily Waste .....MT <b>GRAND TOTAL:</b> i) No. .... ii) No. of Beds..... iii)Quantity of Daily Waste .....MT																		
11	Total Quantity of Solid Waste Generated per Day (approx.):																			

12	<b>Has the Municipality ever examined the characteristics of waste?</b> <b>If yes please Give an average characteristics of Municipal solid waste of the town</b>	Yes/No If yes : i) Plastic .....%      ii) Paper and paper Board .....% iii) Metals .....%      iv) Stone and bricks .....% v) Food Waste .....%      vi) Agricultural Waste .....% vii) Ash and Earth .....%      viii) Wood .....%      ix) Cloth and Textiles .....% .....%      x) Batteries / Electronic items .....%      xi) Rubber and Leather .....% xii) Green Coconut Shells .....%      xiii) Glass .....% xiv)Others .....%
13	Total number of employees in ULB (including contractual) <b>Is it only for SWM related ?</b>	(a) Total Permanent Employees ..... (b) Total Contractual Employees .....
14	Total No. of Employees Posted for Solid Waste/Conservancy work of ULB area.	Permanent .....      Contractual .....
15	<b>Financial Allocations for SWM</b>	
	(a) Total annual Budget of ULB (Rs.in lakhs)	Year 2012-13 Rs. ...., Year 2011-12 Rs. ...., Year 2000-11 Rs. ....
	(b) Budgetary allocations for SWM in Last 3 years (Rs.in lakhs)	Year 2012-13 Rs. ...., Year 2011-12 Rs. ...., Year 2000-11 R .....
	(c) Funding received from bodies other than GOI & State Govts for SWM projects (Rs.in lakhs)	Year 2012-13 Rs. ...., Year 2011-12 Rs. ...., Year 2000-11 R.....
16	Are the SWM projects implemented till now financially sustainable?	(Yes/No)
17	Name of the SWM projects implemented / on going projects or likely to be implemented by the ULB (Please state the capacity, capital cost, O & M cost for each type of technology i.e. <b>i) Composting, ii) Incineration or any other technology, wte iii) Anaerobic Digestion, Iv) Recycling facilities etc</b> ) any other method. Please enclose separate sheet if the space is not sufficient )  <b>i) COMPOSTING : Type of Composting -</b> <b>Name of Project::</b>  a) Capacity .....      b ) Capital Cost.....C) O&M Cost..... d)Product Out put.....e) Sale price .....f) yearly Revenue Generated ..... g) Technology Used..... h) If PPP Mode, Name of Partner..... l) Remarks if any :	

**ii) INCINERATIONS, Waste to Energy and / or Pyrolysis or any other technology**

**Name of Project::**

- a) Capacity ..... b ) Capital Cost.....C) O&M Cost.....  
d)Product Out put.....e) Sale price .....f) yearly Revenue Generated .....  
g) Technology Used.....  
h) If PPP Mode, Name of Partner.....  
l) Remarks if any :

**iii) ANAEROBIC DIGESTION/ GASIFICATION**

**Name of Project:**

- a) Capacity ..... b ) Capital Cost.....C) O&M Cost.....  
d)Product Out put.....e) Sale price .....f) yearly Revenue Generated .....  
g) Technology Used.....  
h) If PPP Mode, Name of Partner.....  
l) Remarks if any :

**ANAEROBIC DIGESTION/ GASIFICATION**

**iv). Name of Project::**

- a) Capacity ..... b ) Capital Cost.....C) O&M Cost.....  
d)Product Out put.....e) Sale price .....f) yearly Revenue Generated .....  
g) Technology Used.....  
h) If PPP Mode, Name of Partner.....  
l) Remarks if any :

**Plastic Waste Recycling Facilities**

**iv). Name of Project::**

- a) Capacity ..... b ) Capital Cost.....C) O&M Cost.....  
d)Product Out put.....e) Sale price .....f) yearly Revenue Generated .....  
g) Technology Used.....  
h) If PPP Mode, Name of Partner.....  
l) Remarks if any :

**Iv) Construction & Demilition Waste ( C&DW) recycling Facilities**

**. Name of Project::**

- a) Capacity ..... b ) Capital Cost.....C) O&M Cost.....  
d)Product Out put.....e) Sale price .....f) yearly Revenue Generated .....  
g) Technology Used.....  
h) If PPP Mode, Name of Partner.....  
l) Remarks if any :

E-Water Recycling Facilities

iv). **Name of Project::**

- a) Capacity ..... b ) Capital Cost.....C) O&M Cost.....  
 d)Product Out put.....e) Sale price .....f) yearly Revenue Generated .....  
 g) Technology Used.....  
 h) If PPP Mode, Name of Partner.....  
 I) Remarks if any :

**ANY OTHER RECYCLING FACILITIES**

v). **Name of Project::**

- a) Capacity .....b ) Capital Cost.....C) O&M Cost.....  
 d)Product Out put.....e) yearly Revenue Generated .....  
 f) Technology Used..... G) If PPP Mode, Name of Partner.....

**vi ) Any Other information if any :**

( Please add extra sheet if required )

18 Major problem if any faced for  
Implementation of the above project(S)) :

19 Other Difficulties Encountered : Please ask the answer in close ended options, Like availbilty/Insufficiency of LFS,Management Priority, Fund allocation,Maintainance of Transport facility, Issues related Ragpicker, Citizen Participation,

20 Approximate yearly Revenue earnings /cost realization from Waste Handling

Particulars	Yearly Revenue Earnings ( Rs. In lakh)	Remarks
Realization of Collection ( Rates )		
Revenue from Compost Manure		
Selling Electricity		

18	Approximate yearly Revenue earnings /cost realization from Waste Handling	From Recyclables		
		Selling RDF		
		Miscellaneous		
		Cess-Pool Emptier		
		<b>Final disposal</b>		
		<b>Total Revenue</b>		
21	Human Resource Aspects: Please insert Employees belong to ULBs or Private			
	(a) No. of Training and Capacity Building Programmes participated by SWM Employees of the ULB during last three years			
	(b) Are the SWM employees provided with protective gear:			
	i. Glove:	Yes/No		
	ii. Footwear:	Yes/No		
	iii. Masks:	Yes/No		
	iv. Water Proof Protective Clothing:	Yes/No		
	(c) Have the SWM Employees been provided training to handle Hospital Waste	Yes/No		
	(d) Have the SWM Employees been provided training to handle Hazardous Waste	Yes/No		
	(e) Have the SWM Employees been provided training to handle e-Waste	Yes/No		
	(f) Are the SWM employees provided with Health Insurance:	Yes/No		
	(g) Do waste collection workers undergo medical checkup periodically	Yes/No		
(h) Does the ULB organize medical checkup Camps for SWM workers	Yes/No			
i) Are the waste handles immunized properly	Yes/No			

(j) No. of programmes initiated by ULB for mass education & general awareness to the General Public on SWM in last three years	Yes/No
(k) List of other initiatives taken by ULB for SWM?	Yes/No

22	Are NGOs, CBOs / citizens organizations involved in the awareness and capacity building	Yes/No							
23	Capital Investment ( Project Work) made in SWM last three years								
24	Total No. of Vehicles Presently Working in SWM System:( Motorised as well as non motorised) average travel time and distance from collection point to Dumping Site	<b>Particulars</b>	<b>Capacity</b>	<b>Nos. Operating</b>				<b>Remarks if any</b>	
		<b>Own</b>	<b>Hired</b>	<b>Private</b>	<b>Total</b>				
		Hydraulic Dumper							
		Hydraulic Dumper placer							
		Dumper Truck							
		Covered Truck							
		Ordinary Truck							
		Tractor							
		Refuse Trailer ( covered)							
		Refuse Trailer ( uncovered)							
		Try-Cycle Van							
		Wheel Barrows							
		Community Bins (roadside)							
		Bulldozer / Pay-loader							
		Hydraulic Dumper Container							
		Waste Compactor							
		Cesspool Emptier							
Mechanical Road Sweeping Machine									
Sewer Sucker									
Any other (Please specify)									



(a) No. of Vehicles fitted with GPS Device	
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25	Is there any outsourcing agency or PPP model for (please specify)						
	i) Collection of Waste	Yes/No,					
	ii) Transportation of waste	Yes/No,					
	iii) Processing of waste	Yes/No,					
	iv) Disposal of waste	Yes/No,					
	v) Recovery of recyclables	Yes/No,					
	vi) Recovery of e-waste	Yes/No,					
26	Process of Collection of Solid Waste ( Please specify in %)	(a) House to House .....					
		(b) Collection spots and Bins .....					
27	Yearly Cost Data						
	Expenditure in O&M of SWM System						
	Per capita Expenditure in SWM System						
	Per capita revenue earnings from SWM System						
28	Waste Collection No of Primary and						
	a) Is domestic waste collected separately						
	b) Is garden waste collected separately	Yes/No					
	c) Is hotel waste collected separately	Yes/No					
	d) Is hospital waste collected separately	Yes/No					
	e) is construction debris collected separately	Yes/No					
29	Is the Solid waste segregated? If yes where is it done?	Yes/No					
		(a) At the source (household level)	(b) At collection Spots	(c) At disposal site			
30	How the Domestic waste is Collected from High Rise buildings ( PI Specify):						
31	How many Rain Water Harvesting facilities are there in your town? (PI give details in a separate sheet )						
32	How Many Green Buildings are in the city	i) Already Exists Nos.....					
		ii) Like to come up with in coming three years Nos.....					
33	Is there any provision in Building Rule of your town for reuse / recirculation of used water? ( Please specify)						
34	Is there any facility for reuse of construction debris ( Please specify)	Yes/No,					

35	Does the ULB also handle Industrial Solid Waste	Yes/No, if yes
	Handling of Industrial Waste	<input type="checkbox"/> by Municipality <input type="checkbox"/> by separate agency <input type="checkbox"/> by PPP
	(a) Is the industrial Solid waste collected Separately	Yes/No
	(b) Is the industrial Solid waste disposed separately	Yes/No
	(c) Method of disposal of industrial Solid Waste ( please explain)	
36	How the compost rejections/non degradable matters is disposed? (please specify)	i) Recycling    ii) Sanitary landfills    iii) Uncontrolled dumping    iv) Protective landfills
	v) Incineration facility if any	Capacity ..... Number of furnace ..... Quantity of waste handles .....
37	Details of the landfill site	Area ..... Amount of waste dumped daily ..... Distance from residential area ..... Distance from the water body .....

33	How the biodegradable waste is disposed of:	i) Windrow Composting iii) Methane Generation	ii) Vermicomposting iv) Any Other	
38	Is there any facility to generate electricity from Waste (please specify)	Yes/No,		
39	Is there a tie up with the local farmers or fertilizer manufacturer for composting of	Yes/No, (please specify)		
40	Has the ULB implemented any new / state of art technology for the solid waste management? If yes give details of the technology			
41	Approximate yearly Operation and Maintenance Cost: [Please mention Expenditure and Collection(if any) Ratio, Is the Process is totally non reveue generating ? If so How does it Sustain]	<b>Particulars</b>	<b>Yearly Cost ( Rs. per ton)</b>	<b>Remarks</b>
		Collection		
		Transportation		
		Processing		
		Final disposal		
		Monitoring		
		Miscellaneous		
	Total			
42	Has the ULB Implemented e-governance in SWM If yes, state the applicability of e-governance system for SWM			
	· To address the complaints			
	· To track the location/ward/area			
	· To maintain MIS for collection transportation & disposal of Solid waste			
	· Other			
43	<b>Present Municipal Drainage and Sanitation System :</b>			
	<b>A. Latrine System</b>			
	i) No. of Service Latrines			

ii) No. of Septic Tanks	
iii) No. Sewerage Line Connection	
iv) No. of Pay and Use/ Community Toilets	

	<b>B. Drainage System ( Please Tick where applicable)</b>	
	<b>The Town is Covered by ( Please specify in %)</b>	
	a) Underground Sewer System	i) Completely                      ii) Partly
	b) Covered Surface Drain	i) Completely                      ii) Partly
	c) Open Surface Drain	i) Completely                      ii) Partly
	iv) Facilities Available for treatment of Sewage :	Yes /No
	If yes type of Treatment Plant and its capacity :	
44	Is there any Facility for Re-cycling the reusable ( Please give brief description)	
45	Septic Tank Sewage Disposal System followed presently : Please specify	
46	Slaughter house waste Disposal System followed presently : Please specify	
47	Does the ULB sweep its roads	Yes/No
	Does the ULB wash its important roads everyday , (specify the frequency of road sweeping.)	Yes/No
48	Has the ULB got any Carbon Trading certificate under CDM	Yes/No
49	Do the ULB organise any community cleaning day at regular intervals	Yes/No
50	Has the ULB got the clearance from PCB for disposal of MSW	Yes/No

## **B. BIO-MEDICAL WASTE**

1	No of Hospitals	i) Govt Hospitals (Nos) :	No. of beds :
		II) Private Nursing Homes / Clinics (Nos) :	No. of beds :
		III) Pathological Clinic(Nos) :	

2	Total Quantity of Bio-medical Waste collected from hospitals	
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3	<b>Present Hospital/ Pathological or Clinical Waste collection System :</b>	
	a) Waste is segregated at the point of generation :	Yes/No
	b) Waste is Collected separately :	Yes/No
	c) Waste cleaning intervals	
	d) Hospital/ Pathological or Clinical Waste is Transported to disposal site in Covered Vehicle	Yes/No
4	Are the Hospital authorities following the color coding for collection of waste	Yes/No
5	<b>Hospital/ Pathological or Clinical Waste is disposed of by</b>	
	a) Open Dumping	Yes/No
	b) Disinfection and secured burial	Yes/No
	c) Incineration	Yes/No
	d) Autoclave	Yes/No
	e) Microwave	Yes/No
6	<b>Is there any outsourcing agency or PPP model for (please specify)</b>	
	i) Collection of Waste	Yes/No,
	ii) Transportation of waste	Yes/No,
	iii) Disposal of waste	Yes/No,

**Please express your views/ new ideas/ valued suggestions if any for improvement of Municipal Solid Waste Management System here:**



**Signature / Mayor / Chairperson/ President / / Commissioner / CEO / Secretary**