

**Tool for IDI of CBWTF Operator**

General details of CBWTF	
Name of the CBWTF:	
Name of the district:	
Name of the state:	
Name of the respondent:	
Designation of the respondent:	
Contact phone:	
Email:	
Date of Interview	
Name of the researcher:	
Radius of the service area of the CBWTF (in KM):	

Questions/ Particulars	Comments/ Multiple choice			Suggestions from UNIDO
1. Last Date of SPCB Audit (DD/MM/YY)				May not be relevant
2. Is this CBWTF a part of Treatment Storage Disposal Facility (TSDF)?	[1] Yes [2] No			
3. What is the distance between CBWTF and TSDF (in KM)?				
4. What are costs involved in final disposal of liquid discharge/ sludge?				
5. What is the distance between CBWTF and Plastic Recycling unit (in KM)?				
6. What are the costs involved in transportation of plastic waste to recycling centre?				
7. What is the distance between CBWTF and Metal Recycling unit (in KM)?				
8. What are the costs involved in transportation of metal waste to recycling centre?				
9. What are costs involved in adopting following (whichever are applicable)?	<b>Measure</b>	<b>Cost centres</b>	<b>Estimated cost</b>	Modified
	Zero Liquid discharge			
	Stack height			
	Ensuring 2 Second Residence Time (RT)			
	Stringent emission norms			
	Odour control measures			
	Any other			
10. What are the charges for bedded facilities (Govt.)?	(Rs/ Bed) (Rs/ Kg)			

Questions/ Particulars	Comments/ Multiple choice			Suggestions from UNIDO	
11. What are the charges for bedded facilities (Pvt.)?	(Rs/ Bed) (Rs/Kg)				
12. What are the charges for non-bedded facilities?	Fixed Rate (Rs/Kg)				
13. How frequently are the rates revised?	[1] Half Yearly [2] Annually [3] Once in two years [4] Once in Three Years [5] More than Three Years				
14. Who decides the rate structure?	[1] CBWTF association [2] State DH&FW [3] Dist. DH&FW [4] SPCB [5] State advisory committee [6] Dist. Level monitoring committee			SPCB decides rates	
15. What was the last date of revision of rates (DD/MM/YY)?					
16. At current rate what is the profitability? (Audited financial statements to be examined for corroboration)	In %			Modified	
17. What should be the rates for reasonable profitability? (for bedded and non-bedded hospitals)	(Rs/ Bed) or fixed rate (Rs/ Kg)			Modified	
18. Major costs involved in provision and O&M of following facilities-	<b>Facility</b>		<b>Cost centres</b>	<b>Estimated cost</b>	Modified
	Storage of Waste (Treated)				
	Storage of Waste (Untreated)				
	Effluent Treatment Plant				
	Water Sources & Storage				
	Vehicle washing bay				
	Vehicle Parking space				
	Administrative room				
	Space for DG Set				
	Incineration / Plasma pyrolysis				
	Autoclave				
	Shredder				
	Sharp pit				
	19. What are major costs involved in data management and record keeping?	<b>Particulars</b>		<b>Cost incurred</b>	
Salary of personnel responsible					
Cost of any software used					
Bar Coding System					
Stationary cost					
Any other cost incurred					

Questions/ Particulars	Comments/ Multiple choice				Suggestions from UNIDO
20. What are major costs involved in the final disposal of treated waste?	<b>Waste Disposal</b>	<b>Cost centres</b>	<b>Name and address of agencies involved</b>	<b>Estimated cost</b>	Modified
	Incineration Ash to TSDf				
	Plastic waste to recycling unit				
	Glass waste to recycling unit				
	Sharp waste to the concrete pit				
	Sharp waste to steel furnace/foundry				
	Wastewater to sewer/recycling in APCD / reused in gardening				
	Any other method being followed				
21. Estimated energy consumption (Unit / Month)	<b>Particulars</b>		<b>Unit / Month</b>	<b>Cost/month</b>	
	Average monthly electricity usage				
	Quantum of other fuel used in operations (e.g. Diesel, furnace oil, coal, gas, etc.)				
22. What is revenue generated from selling recyclable treated waste?	<b>Waste</b>	<b>Average quantity generated per month</b>	<b>Price (per kg)</b>	<b>Agencies</b>	Modified
	Plastic				
	Metal				
	Glass				
23. What are the products CBWTF sells to HCFs?	[1] Plastic Bags [2] Colour Coded Bins [3] PPC [4] Trolley [5] Gloves [6] Heavy Duty Gloves [7] Mask [8] Others [9] All of the above [10] None of the above				
24. What is an approximate CAPEX for setting up a CBWTF*? * Researcher to collect the breakup Property Plant Equipment					Modified

Questions/ Particulars	Comments/ Multiple choice				Suggestions from UNIDO	
25. What are the challenges faced by CBWTF? (Request the respondent to elaborate the reason)	[1] Manpower Crisis [2] Prolong procedure for land acquisition [3] Inadequate of local suppliers for equipment & consumables [4] Low rate structure [5] Legal Barriers ( Delay in authorization & clearances) [6] High operation cost [7] Stringent Norms [8] Inadequate facility to meet the demand [9] Unavailability of waste recyclers in the area [10] Any other					
26. What are the strategies adopted by the facility to mitigate the challenges? And whether any additional costs are involved? (Request the respondent to elaborate)					Modified	
27. Can financial viability of the facility be improved through government support? If yes, what kind of support is needed?	[1] Policy [2] Guideline [3] Cost structure [4] Subsidies [5] Any other				Modified	
28. Are there any plans for capacity augmentation of your facility? If yes, kindly detail.	<b>Particulars</b>		<b>Details</b>	<b>Estimated Cost</b>	Modified	
	Technology		Name of new technology/ Vendors/ manufacturers identified/ existing practices			
	Facility expansion					
	Training and capacity building of staff					
	Use of IT for data management					
	Operational efficiency					
	Any other					
29. What are the latest technologies (globally practiced or indigenously available) that can be adopted by CBWTF for reduction in emission of POPs/ PCDD/PCDF?					Modified	
30. What would be the cost of adoption of such technologies?					New question added	
31. What would be feasibility of adopting PPP models or participatory mechanism in BMW management?	<b>Component of CBWTF</b>		<b>PPP Model</b>	<b>Challenges</b>	<b>Expected benefits</b>	Modified
	Infrastructure Development					
	Equipped/ Upgrade CBWTF					
	Training and education					
	Logistics and transport					
	Recycling					
	Final disposal					
	Monitoring and					

Questions/ Particulars	Comments/ Multiple choice			Suggestions from UNIDO
	evaluation			
	Any other			