

Table Error! No text of specified style in document..1: Tool for assessment of HCFs

General details of Healthcare Facility (HCF)	
Name of HCF:	
Address of HCF:	
Contact no. & website of HCF:	
Ownership of HCF: Public / Private / PSU/ PPP	
Name & designation of respondent:	
Contact no. of respondent:	
HCF area type: Urban / Semi-urban / Rural	
District:	
State:	
Country:	
Name & designation of researcher:	
Contact no. of researcher:	

Questions/ Particulars	Comments/Multiple choice				Suggestions from UNIDO
Healthcare facility					
1. Total operational beds in the HCF					
2. Type of HCF based on bed capacity	[1] Large (>500 beds) [2] Medium (100-500 beds) [3] Small (<100 beds)				
3. What is the average BOR (bed occupancy rate)?					
4. Facility utilization data-	Particulars	2016-17	2017-18	2018-19	Modified
	OP consultations				
	Day-care and emergency footfall				
	IP admissions				
	Major procedures				
	Minor procedures				
	Normal deliveries				
	Number of dialysis				
HCWM regulations (code of conduct, management plan, policy)					
5. Is a copy of Bio-medical Waste Management Rules 2016 available at HCF?	[1] Yes [2] No				
6. Is there a BMWM SOP at HCF that define BMWM practices for implementation?	[1] Yes [2] No				
7. What are major costs involved in BMW management?	Particulars	Cost Centres	Estimated Cost (Per Annum) (Unit Cost * Quantity)		Modified
	Human Resource	Training and education, recruitment and retention, OHS, etc.			

Questions/ Particulars	Comments/Multiple choice			Suggestions from UNIDO
	Plant, property, equipment	e.g. storage area, microwave, autoclave, etc.		
	Consumables	Bins, bar coded bags, gloves, masks, gowns, Hazmat kits, etc.		
	Bar-coding system			
	Data management and reporting	Software/ stationary/ any other cost		
	ETP			
	STP			
	Storage			
	Disposal	Fee paid to CBWTFs/ Municipality		
	Administrative Cost	Licensing fee/ authorization cost/ compliance cost		
Any other				
8. What are the major risks associated with BMW management? What are estimated costs of mitigating them?	Risks	Mitigation Strategy	Estimated Cost	Modified
	Fire	Fire extinguishers		
	Spillage and blasts			
	Any other			
Outsourcing systems				
9. Which activities are outsourced under BMW management and their associated costs?	Activity	Names and Addresses of agencies	Estimated Cost	Modified
	Training on BMWM			
	Waste Collection & internal transportation			
	Waste Treatment & storage			
	BMW handover to CBWTF			
	Other General waste handover to Municipal			

Questions/ Particulars	Comments/Multiple choice			Suggestions from UNIDO
	Authority/ others			
10. How far is the nearest CBWTF?	[1] 0-50 kms [2] 51-100 kms [3] 101-150 kms [4] 151-200 kms [5] 201-300 kms [6] 301-400 kms [7] 401-500 kms [8] >500 kms			
Storage area - On-site				
11. Is there a fenced, secure and covered area available for temporary waste storage at the HCF?	[1] Not available [2] Available and used [3] Available but not used			
12. What is the duration of storing BMW at the temporary storage area within the HCF?	[1] 24 hrs [2] 48 hrs [3] 72 hrs [4] 96 hrs [5] 120 hrs [6] 144 hrs [7] >144 hrs			
On-site treatment (at HCF)				
13. Is the HCF using any BMW treatment facility for recyclable waste currently?	[1] Yes [2] No			
14. If yes, please mention the list of BMW treatment equipment available.	[1] Autoclave [2] Microwave [3] Hydroclave [4] Plasma pyrolysis			
15. If yes, what is the sterilization capacity of the existing equipment per day?	Qty. in Kg. (obtain detail for each kind of equipment)			
16. If yes, what is the quantum of average actual BMW treated during FY 2018-19?	Qty. in Kg.			
17. To whom is the recyclable waste given?	[1] CBWTF [2] Sold to a registered vendor [3] Sold locally			
18. Please provide details of the vendor to whom recyclable BMW is given.	Note the address and contact details of vendor/s			
19. Is captive incineration facility available within the HCF?	[1] Available & functional [2] Available but not functional [3] Not available			
20. If available/functional, what are the incineration capacity per cycle and actual quantum of waste being incinerated during FY 2018-19?	Qty. in kg. /cycle			
Collection & off-site transport to CBWTF				
21. How frequently is BMW collected by an outsourced agency/ CBWTF from the HCF?	[1] No predefined frequency [2] Once in a day [3] Once in every two days [4] Once in every three days [5] Once in every 4 days [6] Once in every 5 days [6] Once in more 5 days			
Final disposal				

Questions/ Particulars	Comments/Multiple choice			Suggestions from UNIDO
22. Is final disposal practiced at the HCF? If yes, what are costs involved?	Method of disposal	Estimated Cost		Modified
	Open Dump			
	Sanitary Landfill			
	Burial Pit			
	Any other			
Procurement systems				
23. What is the procurement mechanism for BMW consumables like gloves, masks, gowns, gumboots, waste bins, waste bags, disinfectants, etc.?	Consumable/ Equipment	Supplier/Vendor	Frequency of Purchase / Servicing	Modified
	Microwave			
	Autoclave			
	Shredder			
	Hydroclave			
	Needle destroyer			
	Bins			
	Gloves			
	Masks			
	Hazmat Kits			
	Bags			
	Chemical disinfectants			
	Apron/ Gowns			
	Gumboots			
Any Other				
24. How many times has a 'stock-out' situation occurred in the last three years?	Material	Frequency of Stock-Out		Modified
Investments, procurement & expenditures				
25. Please provide budget allocation and utilization for BMW management of the last three financial years.	FY	Budget Allocated	Budget Utilized	Modified
	2016-17			
	2017-18			
	2018-19			
Personal opinions - applicable to HCF				
26. What are the major challenges/ constraints faced in adequate management of BMW? What are mitigation strategies and additional costs involved?	Challenges/ Constraints	Mitigation Strategies	Estimated Cost	
	Training and Education			
	Equipment purchase and maintenance			

Questions/ Particulars	Comments/Multiple choice			Suggestions from UNIDO
	Procurement and supplies of consumables			
	Funds available			
	Storage of treated/ untreated waste			
	Distance from CBWTFs			
	Any other			
27. What measures can be taken to improve BMW management at HCF level?	Particulars	Details	Estimated Cost	Modified
	Technology	Name of new technology/ Vendors/ manufacturer s identified/ existing practices		
	Facility expansion			
	New Equipment addition			
	Training and capacity building of staff			
	Use of IT for data management			
	Operational efficiency			
	Any other			