Supplementary online material 1:

Quantifiable metrics identified by experts for measuring requirements of community stakeholders and expert stakeholders

(These are denoted as M1, etc. for easy reference later on)

Sl. no.	Metric	Measurement method	Score on 0 to 1 scale						
			0.00	0.25	0.50	0.75	1.00		
M1	Transect walks to field sites								
		Focus group discussions	Not supported	-	-	-	Supported		
M2	Collecting text information as attribute-value pairs using a questionnaire								
		Focus group discussions	Not supported	-	-	-	Supported		
M3	Photographs								
		Focus group discussions	Not supported	-	Supported	-	Supported with easy access		
M4	Audio recording	gs				1			
		Focus group discussions	Not supported	-	Supported	-	Supported with easy access		
M5	Using existing maps								
		Focus group discussions	Not supported	-	Supported as paper maps	-	Supported as computer maps		
M6	Collecting locat	tion information		I	L	1			
		Focus group discussions	Not supported	Supported using ground based rough sketches	Supported using paper based rough sketches	Supported using paper based maps	Supported using GPS with error <= 3m		
M7	Time taken to search and view detailed information about a particular system								
		Usability trials	> 30 minutes	> 10 - 30 minutes	> 5 - 10 minutes	> 1 - 5 minutes	<= 1 minute		
M8	Time taken to search and view a list of systems that meet specified criteria ('sequential access'/'query')								
		Usability trials	> 30 minutes	> 10 - 30 minutes	> 5 - 10 minutes	> 1 - 5 minutes	<= 1 minute		

Sl. no.	Metric	Measurement method	Score on 0 to 1 scale						
			0.00	0.25	0.50	0.75	1.00		
M9	Time taken to search and view summary information about a list of systems that meet specified criteria								
		Usability trials	> 30 minutes	> 10 - 30 minutes	> 5 - 10 minutes	> 1 - 5 minutes	<= 1 minute		
M 10	Showing a list of systems that meet specified criteria on a map ('spatial query')								
		Focus group discussions	Not supported	-	-	-	Supported		
M 11	Showing previo	Showing preview before saving							
		Focus group discussions	Not supported	-	-	-	Supported		
M 12	Alerting about potential duplication								
		Focus group discussions	Not supported	-	-	-	Supported		
M 13	Viewing all wo	orks in the neighbo	ourhood						
		Focus group discussions	Not supported	-	-	-	Supported		
M 14	Educational ba	ckground needed							
		Focus group discussions	College or more	Junior college / High school	Middle school	Literacy / Primary school	None		
M 15	Training period	1		1					
		Focus group discussions	More than 1 month	> 5 days to 1 month	> 2 to 5 days	$> \frac{1}{2}$ day to 2 days	<= ½ day		
M 16	Less error pron	ie							
		Usability trials	> 33%	> 20% - 33%	> 10% - 20%	> 5 - 10%	<= 5%		
M 17	Educational background needed								
		Focus group discussions	College or more	-	High school	-	Middle school		

Sl.	Metric	Measurement	Score on 0 to 1 scale						
no.		method	0.00	0.25	0.50	0.75	1.00		
M 18	Training period								
		Focus group discussions	More than 15 days	-	> 5 to 15 days	-	<= 5 days		
M 19									
		Usability trials	> 2 hours	1-2 hours	¹ ⁄ ₂ - 1 hour	¹ ⁄ ₄ - ¹ ⁄ ₂ hour	<= 1/4 hour		
M 20	e								
		Usability trials	> 2 hours	1-2 hours	1⁄2 - 1 hour	¹ ⁄ ₄ - ¹ ⁄ ₂ hour	<= 1/4 hour		
M 21	Error while gathering detailed information about 5 RWH systems within 250 meter distance:								
		Usability trials	>33%	<=33%	<=20%	<=10%	0.00%		
M 22	Error while gathe	Error while gathering detailed information about an area of size 1 hectare:							
		Usability trials	>33%	<=33%	<=20%	<=10%	0.00%		
M 23	Easy-to-use train	ing manuals							
		Focus group discussions	Instructor is needed	-	Occasional help from a resource person is sufficient	-	Self study is sufficient		
M 24	Telephone suppo	rt provided							
		Focus group discussions	No	-	-	-	Yes		
M 25	Robust solution:	Minimal data lo	OSS						
		Focus group discussions	Frequent	-	Rare	-	Never		
M 26	Easy to upgrade	solution							
		Focus group discussions	No	-	Few simple steps	-	Upgrade not needed		

Sl. no.	Metric	Measurement method	Score on 0 to 1 scale						
			0.00	0.25	0.50	0.75	1.00		
M 27	Easy-to-use training manuals								
		Focus group discussions	Instructor is needed	-	Occasional help from a resource person is sufficient	-	Self study is sufficient		
M 28	Telephone support provided								
		Focus group discussions	Not supported	-	-	-	Supported		
M 29	Robust solution: Minimal data loss								
		Focus group discussions	Frequent	-	Rare	-	Never		
M 30	Easy to upgrade solution								
		Focus group discussions	No	-	Few simple steps	-	Upgrade not needed		
M 31	Independent ac	cess							
		Focus group discussions	Not supported	-	-	-	Supported		
M 32	Confidential access								
		Focus group discussions	Not supported	-	-	-	Supported		
M 33	Affordability								
		Focus group discussions	High: >Rs10,000	Medium: > Rs. 1,000 to <= Rs. 10,000	Low: > Rs. 100 to Rs. 1,000	Nominal: Rs. 100	Free		