

## ANNEX-C1

### REQUEST FOR PROPOSAL: PAKIS/RFP/22/034

## Post Distribution Monitoring for Delivering UNHCR's Energy Appliances

*Draft surveys*

The household survey has seven components

- A. Details to be completed by surveyor**
  1. Surveyor details
  2. Interview details
  3. Dwelling details
  4. Other
- B. Demographics**
  1. Details of household
  2. Details of interviewee
- C. Household economics**
  1. Capital of the household and ability to accumulate wealth
  2. Primary income
  3. Supplementary income
  4. Consumption
- D. Energy (power)**
  1. Use of power
  2. Behaviours and actions affecting demand
  3. Acquisition of power fuel and assets
  4. Behaviours that affect purchasing decisions
- E. Energy (cooking)**
  1. Use of cooking fuels
  2. Behaviours and actions affecting demand
  3. Supply of cooking fuels and assets
  4. Factors that affect purchasing decisions
- F. Willingness to pay for energy/ latent demand**
  1. Replacement of technologies
  2. Purchase additional technologies
- G. Usage of Distributed Energy Appliances**
  1. Energy Efficient Cooking Stove
  2. Solar Lantern

## HOUSEHOLD SURVEY

Question	Possible responses											
<b>B. Demographics</b>												
<b>1. Details of interviewee and household</b>												
<p><b>i. What gender do you identify with?</b></p> <p><b>ii. What is the highest education level you have completed?</b></p> <p><b>vi. How many people live in this household?</b></p> <p><b>vii. How many persons in this household are children (less than 18 years of age)?</b></p> <p><b>viii. Do(es) your child(ren) go(es) to school?</b></p>	<p>Male</p> <p>1 - no formal education</p> <p>___ members</p> <p>Yes</p>	<p>Female</p> <p>2 - Completed ___ grade (numbers 1 to 12)</p> <p>No</p>	<p>Any other</p> <p>3 - Diploma</p> <p>No children in the household</p>	<p>Prefer not to say</p> <p>4 - Graduate or higher</p>	<p>5 - Other, please specify</p>							
<b>C. Household Economics</b>												
<b>2. Factor of production: Primary Labour</b>												
<p><b>i. How many people living in the household are of working age (more than 18 years of age)?</b></p> <p><b>Based on the response to the above, the below should be answered for each member</b></p> <p><b>b. What is your/ their gender?</b></p> <p><b>c. What is your/ their primary occupation?</b></p> <p><b>d. If applicable: In which sector do you/ they work? (check the primary one)</b></p> <p><b>f. If applicable, on average, how much money would you/ they earn for each week/ month working?</b></p> <p><b>g. If applicable, is this income constant or seasonal?</b></p>	<p>Male</p> <p>1 - Studying</p> <p>Agriculture</p> <p>Rs 0-1000</p> <p>Constant source of income</p>	<p>Female</p> <p>2 - Business owner/ manager/ self-employed</p> <p>Construction</p> <p>Rs 1000-2000</p> <p>Seasonal source of income</p>	<p>Any other</p> <p>3 - Employee receiving wage/ incentive worker</p> <p>Retail and trade targeting households</p> <p>Rs 2000-3000</p>	<p>Prefer not to say</p> <p>4 - Casual/ day labourer</p> <p>Retail and trade targeting businesses</p> <p>Rs 3000-4000</p>	<p>5 - Volunteer with organisations</p> <p>Food and beverage</p> <p>Rs 4000-5000</p>	<p>6 - Community mobiliser</p> <p>Other</p> <p>Rs greater than 5000</p>	<p>7 - Keeping house or raising children full-time</p>	<p>8 - Unemployed/ laid-off/ looking for work</p>	<p>9 - Retired</p>	<p>10 - Disabled/ cannot work due to health issues</p>	<p>11 - Not working (for reasons other than health)</p>	<p>12 - Other</p>
<b>3. Factor of production: Supplementary income</b>												
<p><b>ii. Does the household receive cash vouchers?</b></p> <p><b>a. if yes, how much on average do you receive in a month?</b></p> <p><b>iii. Have you or anyone in your household received in-kind donations from organisation(s) including NGOs, sister agencies (UNICEF,WFP, etc.)? Choose all items provided in the last 12 months</b></p>	<p>Yes</p> <p>Rs 0-1000</p> <p>1 - Shelter ___ items ___ Rs ___ frequency</p>	<p>No</p> <p>Rs 0-1000-2000</p> <p>2 - Food ___ items ___ Rs ___ frequency</p>	<p>Rs 0-2000-3000</p> <p>3 - Clothing ___ items ___ Rs ___ frequency</p>	<p>Rs 0-3000-4000</p> <p>4 - Cooking ___ items ___ Rs ___ frequency</p>	<p>Rs 0-4000-5000</p> <p>5 - Cookstove ___ items ___ Rs ___ frequency</p>	<p>Rs greater than 5000</p> <p>6 - Lighting source ___ items ___ Rs ___ frequency</p>	<p>7 - Others ___ items ___ Rs ___ frequency</p>					

## HOUSEHOLD SURVEY

Question	Possible responses								
<b>D. Energy (power)</b>									
<b>1. Use of power</b>									
<p><b>i. Before coming to the village...</b></p> <p>a. Did you live in a household connected to grid power before coming to this village?</p> <p>b. Did you use any solar products before coming to this village?</p> <p>iv. How many hours of electricity (or light) do you receive from your primary and secondary sources (per 24 hours) on average?</p> <p>vi. How would you assess the availability of lighting for your household? If somewhat or not satisfactory, why is that the case?</p> <p>vii. Are any of the following activities limited due to a lack of or limited lighting? (multiple selections possible)</p>	<p>Yes - Stable power, without any interruptions    yes - Grid power, but with some interruptions    Yes - but the grid seldom worked    No</p> <p>Yes - small solar products like lanterns, torches    Yes - large solar products like solar home products    Yes - both small and large solar products    No</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <tr> <td style="width: 25%;">Source</td> <td style="width: 25%;">Primary source</td> <td style="width: 25%;">Secondary source</td> <td style="width: 25%;"></td> </tr> <tr> <td>No. of hours</td> <td></td> <td></td> <td>Options for Nil number --&gt;</td> </tr> </table> <p>Excellent    Very satisfactory    Satisfactory    Somewhat satisfactory    Not satisfactory</p> <p>1- I don't have sufficient cash for purchase    2- I don't know where to purchase products/services    3- There is a lack of products/services supplied in the market or by the aid agency    4 - Other, please specify</p> <p>Children's education    Income generating activities    Social life    None    Other, please specify</p>	Source	Primary source	Secondary source		No. of hours			Options for Nil number -->
Source	Primary source	Secondary source							
No. of hours			Options for Nil number -->						
<b>2. Behaviours and actions affecting demand</b>									
<p><b>i. Where do you charge your mobile phone?</b></p> <p>a. If charged outside the home, how much do you pay for charging per week?</p> <p><b>ii Is electric lighting important to you? Why?</b></p> <p><b>iii. How much would you be willing to pay per month for having access to 8 hours of electricity supply?</b></p>	<p>1 - Home (grid electricity)    2 - Home (solar lantern)    3 - Solar home system (fixed)    4 - Neighbours ' / friends' house    5 - Shop / kiosk inside village    6 - Shop/ kiosk outside village    7 - Public facility    8 - Other, please specify</p> <p>___ Rs</p> <p>1 - Electric lighting is not important    2 - Studying / school work    3 - Doing household chores    4 - Security and safety    5 - Recreation/ leisure time    6 - Working at home    7 - Moving around easily at night (including using toilet)    8 - Other, please specify</p> <p>___ per month in Rs</p>								



## HOUSEHOLD SURVEY

Question	Possible responses																																						
<p><b>2. Behaviours and actions affecting demand</b></p> <p>i. What does your household usually do if there is not enough fuel for cooking?</p> <p>ii. Where do you normally do your cooking?</p> <p>iii. Which of the following resources do you share with other households? (multiple selections possible)</p> <p>iv. Does your cooking area have a chimney, hood, or other exhaust system?</p> <p>v. Which of the following better describe how your primary cookstove was produced?</p> <p>vi. How many hours per day do you spend cooking?</p> <p>vii. While in the village, have you ever been injured, or witnessed someone being injured, while using cooking fuels?</p>	<p>1 - Skip meals</p> <p>2 - Cook food for long</p> <p>3 - Skip tea/coffee, hot water preparation</p> <p>4 - Reduce portions</p> <p>5 - Exchange food items for fuel</p> <p>6 - Exchange non-food items for fuel</p> <p>7 - Prepare "fast" cooking meals</p> <p>8 - Eat cold meals/don't warm up</p> <p>9 - Use heated stoves from other HH</p> <p>10 - Only feed some members of the household</p> <p>11 - Other (please specify)</p> <p>12 - None of the above</p>	<p>1 - In house, in a room that is NOT a sleeping area</p> <p>2 - In house, in a room that is also a sleeping area</p> <p>3 - In a separate building</p> <p>4 - In a veranda (roofed platform with at least two open sides)</p> <p>5 - Outdoors</p> <p>6 - Other (specify)</p> <p>7 - No food cooked by household members</p>	<p>1 - Kitchen or cooking area</p> <p>2 - Stoves</p> <p>3 - Fuel</p> <p>4 - Food</p> <p>5 - Other (specify)</p> <p>6 - None</p>	<p>1 - Self-made</p> <p>2 - Branded manufacture</p> <p>3 - Unbranded manufacture d or artisanal</p> <p>4 - don't know</p>	<p>___ hours / day</p> <p>No</p> <p>yes - Burn</p> <p>Yes - Poisoning</p> <p>Yes - Other (specify)</p>																																		
<p><b>3. Acquisition of cooking fuels and assets</b></p> <p>i. How much of the following fuels does your household use in a week and what is the source ?</p> <p>Firewood (kg)</p> <p>Charcoal (kg)</p> <p>Briquettes (kg)</p> <p>Natural gas (litres)</p> <p>Kerosene (litres)</p> <p>Ethanol (litres)</p> <p>ii. How would you assess the availability of cooking fuel for your household?</p> <p>a. If somewhat or not satisfactory, why is that the case?</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Use per week (in kg/litres)</th> <th>Source</th> <th>Spend per week (Rs)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			Use per week (in kg/litres)	Source	Spend per week (Rs)																						<p>Column 1&gt;&gt; in kg/litres (can be zero)</p> <p>Dropdown for source&gt;&gt; Barter/ exchange Provided by NGO or government Make own charcoal Other (Specify)</p> <p>Spend per week Numerical values only</p>									<p>Excellent Very satisfactory Satisfactory Fairly satisfactory Not satisfactory</p> <p>1- Insufficient cash for purchase</p> <p>2 - Lack of availability of fuel to purchase</p> <p>3 - Seasonal availability of fuel</p> <p>4 - NGO does not supply enough to meet needs</p> <p>5 - Other, please specify</p>		
Use per week (in kg/litres)	Source	Spend per week (Rs)																																					
<p><b>4. Factors that affect purchasing decisions</b></p> <p>i. Please name three features of a cooking system that are most important to you (multiple selections possible)</p> <p>v. What is the gender of the primary cook in the household?</p> <p>vi. Who is the primary collector of fuel in the household?</p> <p>vii. How many hours per week does your household spend on collecting cooking fuel?</p>	<p>1 - Traditional/familiar stove</p> <p>2 - Suits our cooking habits</p> <p>3 - Save fuel</p> <p>4 - Less smoke</p> <p>5 - Safe to use</p> <p>6 - Fast preparation of food</p> <p>7 - Easy to handle</p> <p>8 - Comfortable size of stove</p> <p>9 - Good taste of food</p> <p>10 - Easy to repair</p> <p>11 - Stove is easily transportable</p> <p>12 - Stove is locally available</p> <p>13 - Stove can be used with different pot sizes</p> <p>14 - Affordable price</p> <p>15 - No preparation of fuel required</p> <p>16 - Other</p>	<p>Male</p> <p>Female</p> <p>Any other</p> <p>Prefer not to say</p>	<p>Adult male</p> <p>Adult female</p> <p>Child male</p> <p>Child female</p>	<p>___ hrs/ week</p>																																			

**HOUSEHOLD SURVEY**

Question	Possible responses
<b>F. Willingness to pay for energy/ latent demand</b>	
<p><b>1. Replace existing technologies</b></p> <p><b>i. You currently have/ use (populate energy solutions the respondent currently uses). If they stopped working and you had to replace, which of the following products would you replace it with? Please rank in order of preference.</b></p>	<p>Clean cookstove (saves 20% cooking time per day , lights instantly, allows for good control of flame and heat, has no smoke, lasts 6 years and is fueled through cylinders that need to be replaced every month)</p> <p>Solar lantern (single light + mobile charging)</p> <p>Solar home system (power 3 lights, mobile phones, 1 fan and radio, provide 3 hours of electricity every night and lasts 4 years)</p> <p>Large solar home system (power 3 lights, mobile phones, 1 fan and radio, provide up to 6 hours of electricity in the night and lasts 4 years)</p> <p>None of the above, I do not want to replace any of my existing energy solutions</p> <p>Other, please specify</p>
<p><b>2. Purchase additional technologies</b></p> <p><b>i. If you had a chance to purchase additional/ other energy products (including power and cooking), what would be your next purchase? Please rank in order of preference. Assume they are readily available in the market.</b></p>	<p>Clean cookstove (saves 20% cooking time per day , lights instantly, allows for good control of flame and heat, has no smoke, lasts 6 years and is fueled through cylinders that need to be replaced every month)</p> <p>Solar lantern (single light + mobile charging)</p> <p>Solar home system (power 3 lights, mobile phones, 1 fan and radio, provide 3 hours of electricity every night and lasts 4 years)</p> <p>Large solar home system (power 3 lights, mobile phones, 1 fan and radio, provide up to 6 hours of electricity in the night and lasts 4 years)</p> <p>None of the above specify</p> <p>Other, please specify</p>

## HOUSEHOLD SURVEY

Question	Possible responses				
<b>G. Usage of Distributed Energy Appliances</b>					
Are you using energy efficient stoves/solar lanterns provided by UNHCR	Yes	No	Don't know		
If No then ask the following					
Why are you not using the appliances	Does not match the needs	Sold in the market PKR:	Sold to another refugees: PKR:	Gave to someone else	Not working
If Yes, then ask the following					
Has use of these appliances reduced the need for going out for bringing fuel	Yes	No	Don't know		
Which appliance do you like more?	Solar Lantern	Cooking Stove	No Preference		
What would you like to improve in the appliances?	Build Quality	Missing feature _____	other		
<b>For Energy Efficient Stoves:</b>					
How often do you use the stoves	3 times a day or more	Twice a day	Once a day	____ per week	
Has the use of stoves reduced your energy expenses	Yes by PKR:	No	Don't know		
Has the use of stoves reduced smoke inside the house	Yes	No	Don't know		
Has the use of stoves reduced time and efforts for cooking	Yes	No	Don't know		
Has the stove been used for heating purpose as well	Yes	No	Don't know		
<b>For Solar Lanterns:</b>					
For how long do you use the lantern	One hour	Two hours	Three hours	More than three hours	
Has use of the lantern reduced your energy expenses	Yes by PKR:	No	Don't know		
Has use of the lantern reduced smoke inside the house	Yes	No	Don't know		
Has the lantern been/being used for studying	Yes	No	Don't know		No students in the HH
Has the lantern been used by females in the HH	Yes Reason	No	Don't know		
Anything else about the appliances					