

For selective answers, please tick the appropriate box. (☑)

YCW Survey Sheet

Name of surveyor: _____

Date of survey: _____ / _____ / _____

Country name: _____

Respondent information

Name (title): _____

Name of organization: _____

Contact TEL: _____

No	Category	Item	Questions and points to be confirmed	Result	Remarks	Essential
A: Candidate site						
A-1	Residents	Address	What are the names of the state, province, district, and village?	_____ State _____ Province _____ District _____ Village		●
A-2	Residents	Target population of the candidate site	What is the number of households? What is the population? What is the scope of the target area?	_____ Households _____ People Within _____ km	Assumed: Drinking water, 4L/ date/people, YCW-008A: 8, 000L/ date Can supply 400 households with 5 people per household In conjunction with the government's population information, information should be obtained to the extent that it is actually possible to supply (e.g. within a 2km radius).	●
A-3	Residents	Occupational survey	What are the ratios of villagers by occupation?	Agriculture: _____ % Forestry: _____ % Fishing: _____ % Other: _____ %	For survey and analysis	
A-4	Residents	Income level	What is the average income of villagers?	Average income: _____ Local currency /day Other information: _____	Ask the village mayor instead of asking villagers about water sales prices. If there are many farmers, ask them how much income can be earned during the harvest season.	
A-5	Residents	Actual conditions of drinking water	What kind of water are you drinking now? Choose one from right or fill in the brackets. How much is the price?	<input type="checkbox"/> Shallow well, <input type="checkbox"/> deep well, <input type="checkbox"/> river, <input type="checkbox"/> lake, <input type="checkbox"/> reservoir <input type="checkbox"/> Tap water, <input type="checkbox"/> rain water, <input type="checkbox"/> other (_____) Price: _____ Local Currency /20L Price: _____ Local currency /month/household	Shallow well: depth 50m or less Deep well: depth 50m or more	●
A-6	Residents	Actual conditions of drinking water	How do you drink water from water sources? Choose one from right or fill in the brackets.	<input type="checkbox"/> Boiling, <input type="checkbox"/> coagulant, <input type="checkbox"/> no treatment other(_____)		
A-7	Residents	How to manage drinking water	If there is an improved water source such as well and water supply, is there an operational management organization?	Presence of a management organization: <input type="checkbox"/> YES or <input type="checkbox"/> NO If any, <input type="checkbox"/> a government, <input type="checkbox"/> a private company, <input type="checkbox"/> villagers, <input type="checkbox"/> an NGO Size: _____ people (how many) Daily allowance: _____ Local currency /person Other(_____)	Ensure that it functions as an organization for maintenance and management.	
A-8	Residents	Drinking-water challenges	Are there any problems, such as poor physical condition, due to the current drinking water? Choose one from right or fill in the brackets.	<input type="checkbox"/> Diarrhea, <input type="checkbox"/> fever, <input type="checkbox"/> skin disease, <input type="checkbox"/> vomiting <input type="checkbox"/> Other(_____)	What is the effect of improving water-induced diseases? Reducing expenditure on clinics	
A-9	Residents	Drinking-water challenges	How do you access water sources? Who fetches water? Choose one from right or fill in the brackets.	Frequency of fetching water: _____ times/days Round-trip travel time to fetch water: _____ hour/time One way distance to water source: _____ m Fetcher: <input type="checkbox"/> Men, <input type="checkbox"/> women, <input type="checkbox"/> children	Can you expect income increase and school attendance rate increase by releasing from transportation work? Securing hours for another work, etc.	
A-10	Residents	Clinics and pharmacies	Are clinics and pharmacies located in the middle of the village within the community? If not, check the nearest location. Choose one from right or fill in the brackets.	Clinic: <input type="checkbox"/> YES, <input type="checkbox"/> NO, <input type="checkbox"/> other (_____) If not, nearest location: _____ km away Pharmacy : <input type="checkbox"/> Yes, <input type="checkbox"/> NO, <input type="checkbox"/> other (_____) If not, nearest location: _____ km away	Get information on clinics and pharmacies to check effects before and after installation Other: midwives, prayers, etc.	

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A-11	Residents	Survey on water purification and diffusion (Price of water)	Do you have bottled or water for sale? Choose one from right or fill in the brackets. Fill out detailed information	Distance to the sales location: _____ km Types of sales: <input type="checkbox"/> Stores, <input type="checkbox"/> mobile sales, <input type="checkbox"/> public water faucets Price: _____ Local currency _____ Capacity: _____ L Water quality: <input type="checkbox"/> Good, <input type="checkbox"/> Bad Sales hours: _____ hour to _____ hour		
A-12	Power supply	Presence or absence of electricity (if any, power failure or voltage drop)	Is public electricity available? Choose one from right or fill in the brackets. If any, for a power failure or a voltage drop	Electricity: <input type="checkbox"/> YES or <input type="checkbox"/> NO If YES: <input type="checkbox"/> Stable, <input type="checkbox"/> Power Failure, <input type="checkbox"/> Voltage Drop Monthly average price: _____ Local currency / month Power Failure or Voltage Drops: _____ times/month Average power failure time: _____ hours Do you have a constant voltage device?: <input type="checkbox"/> YES or <input type="checkbox"/> NO	Voltage drop can be estimated even if bare bulb becomes dark and bright. Consider the introduction of stabilized power supply and solar power generation in the situation of frequency of power failure and voltage drop.	●
A-13	Location	Lightning	Has the village ever been struck by lightning?	Lightning strike near the village: <input type="checkbox"/> YES or <input type="checkbox"/> NO Frequency of lightning strikes: _____ times/ _____ years	Places where there are many lightning strikes should be avoided.	
A-14	Water Committee	Water committee	Is it possible for the organization to implement daily equipment management, and sales, collection and management of water? In that case, is there a woman who collects money, someone who maintains it, or someone who can judge water stoppage in emergency?	Is it possible to set up and run a committee?: <input type="checkbox"/> YES or <input type="checkbox"/> NO Is it possible to appoint someone who can read and write English and official language: <input type="checkbox"/> YES or <input type="checkbox"/> NO Is it possible to appoint a woman as a member?: <input type="checkbox"/> YES or <input type="checkbox"/> NO Candidate for Chairman (name and title): _____	If villagers are keen on clean water, security could be easily assured against theft of items. • Committee member Chairman: at least one person Accountant: at least one person Operator: at least one person	●
A-15	Water Committee	Support of the Water Supply Bureau	Is there government support, such as the Water Supply Bureau and the Ministry of Local Development? Choose one from right or fill in the brackets.	Support from the Water Bureau: <input type="checkbox"/> YES or <input type="checkbox"/> NO Types of support: <input type="checkbox"/> After installation support or <input type="checkbox"/> water rights after installation <input type="checkbox"/> Other(_____)	Key points are how much support can be received from related government offices	
A-16	Residents	Intention to sell and purchase water	Water must be sold in the meaning of savings for future maintenance and parts replacement, is that possible?	Can villagers purchase water?: <input type="checkbox"/> YES or <input type="checkbox"/> NO Preferred price: _____ Local currency /20L Expected quantity of sales: _____ L/day	How much can villagers pay for 20L of clean water? Repair cost at the time of failure For models with solar PV: Battery replacement cost Without solar PV: Electric (monthly)	●
A-17	Residents	Needs	Are there no other water purification services available or planned? Choose one from right or fill in the brackets.	<input type="checkbox"/> Water pipes, <input type="checkbox"/> wells, <input type="checkbox"/> delivery businesses from water purification facilities <input type="checkbox"/> Other(_____)	It would be difficult to set up a YCW if the level of need is such that people already have other water supply facilities and would be grateful if YCW could be introduced.	●
A-18	Residents	Surrounding environment	Is it possible to sell water to surrounding villages? Distance, price, population Choose one from right or fill in the brackets.	Intention to go to the surrounding village for sale: <input type="checkbox"/> YES or <input type="checkbox"/> NO Possibility of surrounding villages coming to purchase: <input type="checkbox"/> YES or <input type="checkbox"/> NO Distance to surrounding villages: _____ km Number of surrounding villages: _____ villages (how many) Total population of surrounding villages: _____ people		
A-19	Residents	Persistence	Is it possible to purchase a refrigerator in the village and sell cold water or ice? Choose one from right. Fill in if you know the price of the refrigerator.	Needs for cold water or ice: <input type="checkbox"/> YES or <input type="checkbox"/> NO Intention to purchase refrigerator: <input type="checkbox"/> YES or <input type="checkbox"/> NO Purchase price of refrigerator: _____ Local currency	Cold water and ice can be sold at a higher price than water at room temperature, and there are many past cases that lead to increased profits, so it is strongly recommended to purchase a refrigerator.	
A-20	Water source	Water source quality	Are potential sources of water free of hazardous substances? Are industrial wastewater and pesticides contaminated? Choose one from right or fill in the brackets.	Problem recognition as drinking water: <input type="checkbox"/> YES or <input type="checkbox"/> NO Assumed substance in the presence: <input type="checkbox"/> Arsenic, <input type="checkbox"/> seawater, <input type="checkbox"/> pesticides, <input type="checkbox"/> industrial wastewater <input type="checkbox"/> Other:(_____)	It should be a safe water source without factory wastewater or agricultural pollution in the upstream. The use of the residents is also checked. No contamination of arsenic, heavy metals or salts.	●

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B: Water source						
B-1	Water source	Candidate water source extraction Water quality survey	Can YCW be used as a source of drinking water?	For details, check the sample water at the analytical institute and report the results to Yamaha separately.	You must collect water first when you visit, and in the rainy season before installing. Points to note when requesting water sampling and analysis • Preliminary confirmation of the amount of water required for analysis with the analytical institute • Items applicable to drinking water standards • Fill in the bottle with the date and time of water sampling	●
B-2	Installation Location	Consideration of layout	Do you have an 8 m × 10 m site? Create a layout of the equipment, water point, and nearby buildings and trees for consideration from the water intake source	8 m × 10 m space: <input type="checkbox"/> YES or <input type="checkbox"/> NO If YES, please write down the layout details on a separate sheet.	Prepare the separate sheet by the surveyor and make a rough sketch. 1.Route of candidate sites for water source → 2. Layout of installation site 3. Describing surrounding buildings	●
B-3	Installation Location	Survey of candidate sites for establishment (Distance to water source, height difference)	What is the difference in distance and altitude from topography, ground, and water sources? What is latitude and longitude?	Fill in Figure 1: Normal and Figure 2:Flood and drought Latitude: _____ Longitude: _____.	7 items such as distance and height from the water source should be listed in the figure. Observe the four conditions of distance and height described in the figure. As basic data for specifications of pumps and pipes and negotiations with land owners	●
B-4	Installation Location	Sunshine	Are there anything such as buildings and trees to block the sun near the candidate location? Choose one from right or fill in the brackets.	Things that block the sun: <input type="checkbox"/> YES or <input type="checkbox"/> NO Can it be removed?: <input type="checkbox"/> YES or <input type="checkbox"/> NO Average daylight hours: _____ hour to _____ hour	Sunshine is required for Bio Pools and solar panels. If large trees or buildings block the sunshine, consider changing the installation location or directions.	●
B-5	Installation Location	Ground Strength	Is the ground strength of the candidate site sufficient?	Foundation strength: <input type="checkbox"/> OK or <input type="checkbox"/> NG	No place where there is a risk of ground subsidence after installing the equipment, such as marshes and stains is suitable.	●
B-6	Water Committee	Village chiefs and villagers Awareness	Are the village heads motivated to install water purification equipment? Are villagers convinced of installing water purification equipment?	Motivation of village chiefs: <input type="checkbox"/> YES or <input type="checkbox"/> NO Reason for judgment: _____ Villagers' agreement: <input type="checkbox"/> YES or <input type="checkbox"/> NO Reason for judgment: _____	Describe the results that the surveyors felt from their interactions with the village chiefs, influential people, and villagers. Because the application requires strong leadership such as a phase estimate of the three companies and the organization of the committee, we will assess the passion to what extent they will understand on YCW.	●
B-7	Consumables	Chlorine powder	Is chlorine powder available near the candidate site? Choose one from right or fill in the brackets.	Availability of Chlorine: <input type="checkbox"/> Available or <input type="checkbox"/> NOT Product Name: _____ Commodity prices: _____ Content Quantity: _____ Where to get: _____	Ask them to introduce the products used at the water purification plant. We should buy the same products from the same supplier to ensure disinfection performance.	●
B-8	Installation Location	Accommodation	Is there an accommodation where the supervisor from Yamaha can stay within an hour by car from the site? Choose one from right or fill in the brackets.	Name of accommodation: _____ Distance from the village: _____ km Power supply: <input type="checkbox"/> YES or <input type="checkbox"/> NO WiFi: <input type="checkbox"/> YES or <input type="checkbox"/> NO	Avoiding the risk of theft and robbery Operational efficiency during the installation	
B-9	Installation Location	Safety and security	Are safety and security assured? Choose one from right or fill in the brackets.	Security situation in the vicinity: <input type="checkbox"/> GOOD or <input type="checkbox"/> BAD <input type="checkbox"/> Other:(_____)		●
B-10	Installation Location	Container delivery route	From which month to which month of the year can you drive to the site, especially in rainy season. Also, can large trucks be passed by? Choose one from right or fill in the brackets.	Full year access: <input type="checkbox"/> YES or <input type="checkbox"/> NO Not accessible period: _____ month to _____ month Availability of Large Trucks: <input type="checkbox"/> Available or <input type="checkbox"/> Not Available Minimum road width: _____ m	In rainy season many places become inaccessible. Measure the width of narrow roads. Not only ask villagers, but check the roads by yourself. When passing a bridge that is likely to break, the transportation into trucks is also considered.	●

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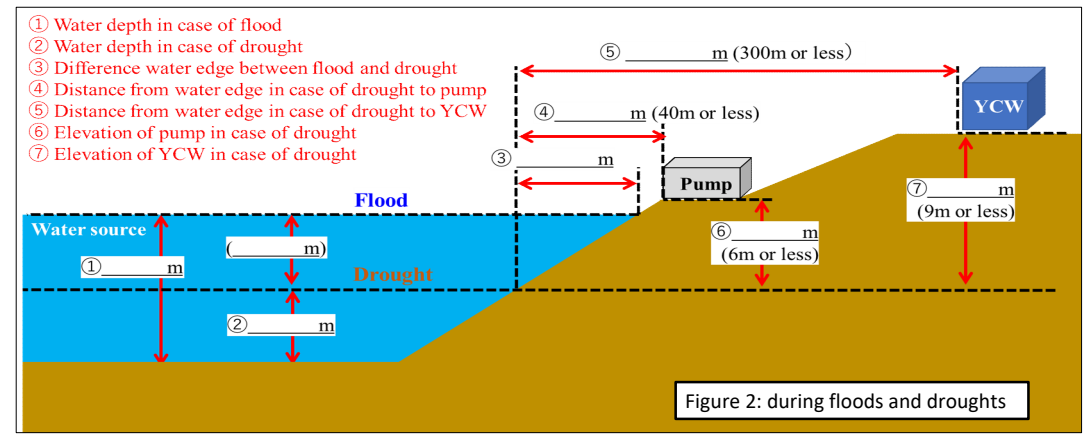
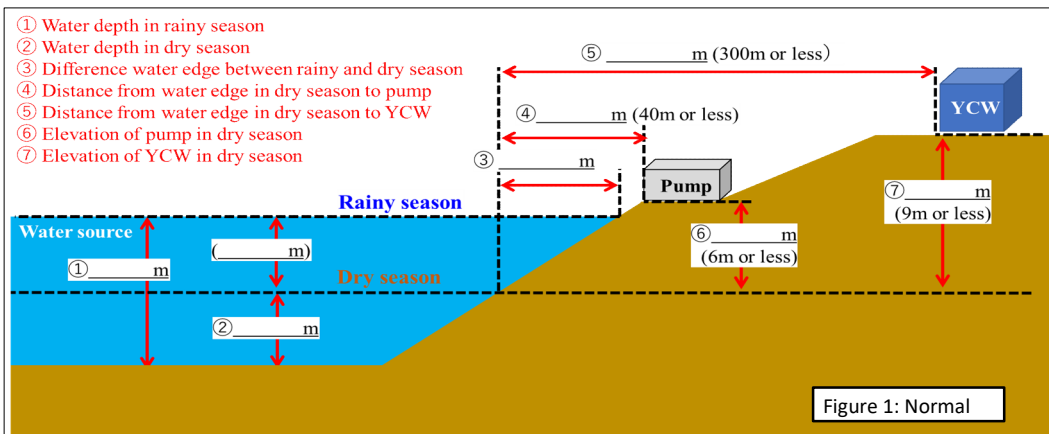
Respondent information

Name (title): _____

Name of organization: _____

Contact TEL: _____

No	Category	Item	Questions and points to be confirmed	Result	Remarks	Essential
B-11	Installation Location	Car rental	Can English-speaking drivers and four-wheel-driven rental cars be available? Choose one from right or fill in the brackets.	Driver use: <input type="checkbox"/> YES or <input type="checkbox"/> NO Four-wheel drive vehicles: <input type="checkbox"/> Available or <input type="checkbox"/> NOT Company name: _____.		●
B-12	Installation Location	Language	What language do they speak at the candidate site? Choose one from right or fill in the brackets.	<input type="checkbox"/> English, <input type="checkbox"/> French, <input type="checkbox"/> Other ()		
B-13	Installation Location	Interpreter	Is an interpreter available if the local language is not English? Choose one from right or fill in the brackets.	Local language and English: <input type="checkbox"/> YES or <input type="checkbox"/> NO Cost: _____ Local currency /day TEL: _____ E-mail: _____ Name (company name): _____.		●
B-14	Water source	Drinking-water standards	What drinking-water standards are defined in the target area?	Submit a list of eligible items separately.		
B-15	Water source	Investigation by the water quality analysis agency	Is the agency near enough and the price inexpensive enough for a water committees to analyze regularly in the future to see if they can analyze drinking-water judgments? Choose one from right or fill in the brackets.	Analysis Institution: <input type="checkbox"/> Present or <input type="checkbox"/> Not Present Location: _____ Name: _____ Price: _____ Can analyses be conducted according to drinking water standards?: <input type="checkbox"/> YES or <input type="checkbox"/> NO	Confirm location, distance, period, price, and items that can be analyzed.	
B-16	Coordinator	Coordinator	Is there a candidate who is curious and able to email the situation in English or speak English? Choose one from right or fill in the brackets.	Candidate: <input type="checkbox"/> YES or <input type="checkbox"/> NO Name: _____ Company name: _____ Other: _____	Is there anyone who has the passion to adjust with officials and negotiate with civil engineers without compromise? Yamaha makes a contract for basic abilities (English conversation, personality, and negotiation ability) to provide benefits from Yamaha (after the transfer, what should be done?)	
B-17	Civil engineering Contractor	Results and warranty response	Is it possible to request an estimate from a civil engineering contractor? Choose one from right or fill in the brackets.	Candidate civil engineering contractors: <input type="checkbox"/> YES or <input type="checkbox"/> NO Name: ① _____ ② _____ ③ _____ Company: ① _____ ② _____ ③ _____ Contact details: ① _____ ② _____ ③ _____	It is advisable to obtain three quotes if possible.	●
B-18	Service	Pump repairer	Is there a pump repairer near the candidate site for installation? Choose one from right or fill in the brackets.	Pump Repairer: <input type="checkbox"/> YES or <input type="checkbox"/> NO Name: ① _____ ② _____ ③ _____ Company: ① _____ ② _____ ③ _____ Contact details: ① _____ ② _____ ③ _____		



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C: Clinic						
C-1	Clinic	Sickness	What percentage of hospital visitors have water-induced diseases? Choose one from right or fill in the brackets.	What percentage of patients are assumed to be caused by water? : _____ % How many patients per month are there?: _____ patients/month Major symptom: <input type="checkbox"/> diarrhea, <input type="checkbox"/> fever, <input type="checkbox"/> skin disease, <input type="checkbox"/> vomit <input type="checkbox"/> Other(_____)	What effects do you expect from improving drinking water? Reducing hospital visits costs, increasing income and school enrollment by ensuring work and school commuting time, etc. Improvement of infant mortality, etc.	
C-2	Clinic	Medical fee	How much is the medical fee? Choose one from right or fill in the brackets.	Visiting fee: _____ Local currency /time or a specific example • Drip: _____ Local currency /time • Other (_____): _____ Local currency /time	What effects do you expect from improving drinking water? Reducing hospital visits costs, increasing income and school enrollment by ensuring work and school commuting time, etc. Improvement of infant mortality, etc.	

Respondent information

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D: Local government						
D-1	Rural Areas Government	Availability of water intake restrictions ②	Are there restrictions on water intake locations due to the influence of agriculture and passage of ships? Choose one from right or fill in the brackets.	Restrictions on water intake locations: <input type="checkbox"/> YES or <input type="checkbox"/> NO Specifically (_____)	Contact the government office or irrigation water management department. If YES, the layout of the pump and intake pipes will be affected and should be investigated.	●

E: Dealer and distributor

Respondent information

Name (title): _____

Distributor name: _____

Contact TEL: _____

No	Category	Item	Questions and points to be confirmed	Result	Remarks	Essential
E: Dealer and distributor						
E-1	Service	Yamaha dealers and distributors	Can we get support from Yamaha distributors and distributors for work related to YCW installation? Choose one from right or fill in the brackets.	Preliminary contact with sales personnel within OMDO: <input type="checkbox"/> DONE or <input type="checkbox"/> NOT YET Dealers/Distributors: <input type="checkbox"/> YES or <input type="checkbox"/> NO Import customs clearance: <input type="checkbox"/> YES or <input type="checkbox"/> NO Installation accompaniment: <input type="checkbox"/> YES or <input type="checkbox"/> NO After-sales service: <input type="checkbox"/> YES or <input type="checkbox"/> NO		
E-2	Service	Dealer • Private mechanics	Is there a dealer/private mechanic near the candidate site for installation? Choose one from right or fill in the brackets.	Dealer: <input type="checkbox"/> YES or <input type="checkbox"/> NO Private Mechanics: <input type="checkbox"/> YES or <input type="checkbox"/> NO Availability of accompanying installation: <input type="checkbox"/> Available or <input type="checkbox"/> NOT		

F: Substances of Concern

Respondent information

Name (title): _____

Distributor name: _____

Contact TEL: _____

No	Category	Item	Questions and points to be confirmed	Result	Remarks	Essential
F: Substances of Concern						
F-1	Laws and regulations	For water purification equipment Product regulations	Is there no environmental regulation for water purification equipment? Choose one from right or fill in the brackets.	Product regulations: <input type="checkbox"/> YES or <input type="checkbox"/> NO Specifically (_____)	Check with water analyses organization.	