

## Interview Format for Shallow Tube Wells in Flood Plain Areas

1. What are the most common water extraction methods? Do you use pumps if yes what kind of pump (head, discharge, power, efficiency etc)? Pumping techniques (rope pumps, treadle pumps, electrical pumps, diesel pumps)
2. At what depth of the well can we get discharging water? What are the rates of fluctuations within a year? What is the Probability of getting sand in the aquifer and at which depths?
3. What is the average discharge of the hand dug wells around? What is the probable annual yield of the well? How many hours will it take for the discharge to fill or reach its maximum level (recovery time)?
4. What type of well are they (either hand dug or hand drilled)? If manual drilling is used; describe the method and its service providers (percussion, hand auguring, sledging, jetting)
5. What is the spacing between each well (along and across)? and their distribution
6. What is the irrigation capacity of a well? What crops are grown using the wells? What are the most common type of cropping pattern and size of irrigated agriculture using spate/floods, and what agronomic practice differences do you observe between the flood based farming and the borehole irrigation? What is the link between the flood based farming systems and borehole irrigation or how are they interrelated to one another? Yield of crops (rain fed, flood fed...)
7. What indicators do you use for choosing wells?
8. Are the hand dug wells stable after finalizing construction?
9. What is the average cost of the wells and the cost variations within successive past three years? And who pays for its construction?
10. Which organizations are involved in flood based farming system and/or drilling and construction of the wells? What gaps do you observe on the

organizations involved? Are they well experienced to handle the process of drilling and construction of the wells?

11. What is the total number of beneficiaries and their profile? Owners of well only, owners of irrigated area only, owners of both well and irrigated area; are they natives or migrants from other regions, etc. What is the arrangement, who owns the well and pumps.
12. What is the land tenure and land use system? Communal, private owned, government owned; reserved for grazing land, etc.
13. Wall Protection types and why they choose this protection?
14. Mapping the area with respect to soil types and land use.
15. Inundation frequency, vulnerability to flooding based on a calendar what happens to the wells when they are inundated how they preserve it?
16. Uses of the flood plains based on calendar (agriculture, fishing, wild crops, livestock etc)
17. Marketing systems and facilities
18. What happened in the last 10 yrs (time line) number of wells , type of farming, fishery livestock keeping, marketing etc
19. Is the cultivation working on the residual moisture or on the raising floods? Are there any ways or techniques to influence the residual moisture (canals, drains, structures etc? do they catch fish animals from the mud?
20. Are there short or long-term government plans to develop the area and if so for what purposes?