

Additional File 1: Household variables used for construction of wealth index

1. Main material of the floor
 - Earth/sand
 - Palm/bamboo/grass
 - Wood
 - Polished wood
 - Cement/tiles
2. Main material of the exterior walls
 - Bamboo / pitpit
 - Sago
 - Wood
 - Plywood
 - Masonite/Fibro
 - Cement or bricks
 - Iron sheets
3. Main material of the roof
 - Thatched grass
 - Sago palm leaves
 - Corrugated iron
 - Wood planks
 - Cement
4. Windows in main house
 - No windows
 - Windows, not screened
 - Windows, partly screened
 - Windows, all screened
5. Main source of drinking water
 - Surface water (river, pond, irrigation channel, etc.)
 - Open well (public/private)
 - Protected well (public/private)
 - Water tank
 - Piped into neighbourhood / public tap
 - Piped into dwelling
6. Main energy source for cooking
 - Firewood
 - Small twigs/tree branches/coconut shell
 - Kerosene
 - Gas
 - Electricity
7. Main source of lighting
 - None
 - Candle
 - Lantern
 - Pressure lamp/Coleman
 - Battery lantern
 - Solar power
 - Electricity

8. Ownership of household assets
 - Bed
 - Mattress
 - Table
 - Chair
 - Umbrella
 - Clothing cupboard
 - Coleman pressure lamp
 - Electric (battery) torch
 - Radio
 - Television
 - Mobile phone
 - Landline phone or wireless handset
 - Canoe, dugout (without motor)
 - Banana boat, ship (with motor)
 - Refrigerator
 - Bicycle / tricycle
 - Motorbike
 - Car or truck
9. Household ownership of livestock/animals (number of)
 - Chicken
 - Cassowaries
 - Goats and sheep
 - Pigs
 - Cows
 - Dogs
10. High quality house (see below)

Variables used for construction of “high quality house” indicator

1. Main source of drinking water
 - Piped into dwelling
- AND
2. Type of toilet facility is available to the household
 - Own flushing toilet
- AND
3. Main energy source for cooking
 - Gas or electricity