

Online Resource 1

Survey Instrument (Questionnaire)

SECTION A: CONSENT AND IDENTIFICATION

Respondent Consent You are being invited to take part in a student research study about health and environmental conditions in this area. Participation is completely voluntary. This survey will take about 5–7 minutes. No names or personal identifiers will be recorded, and all responses will be kept confidential. You may choose not to answer any question or stop the interview at any time without any consequences. This study does not provide medical advice or treatment. Do you agree to participate? (Was orally told to respondents in residential language-Hindi)

☐ Yes ☐ No

A1. Interview ID: _____

A2. Study zone: (Surrounding at boundary of dumping ground)

☐ Zone A ☐ Zone B ☐ Zone C

A3. Respondent age: _____

A4. Record current location (GPS): _____

A5. Date and time of interview: _____

A6. Landmark / House no.: _____

SECTION B: HOUSEHOLD DEMOGRAPHICS

B1. Sex: ☐ Male ☐ Female ☐ Others

B2. Household size (number of people): _____

B3. How long have you lived here? ☐ Less than 1 year ☐ 1–5 years ☐ More than 5 years

B4. Any household member working with waste (collector, sorter, rag-picker)?

☐ Yes ☐ No

B5. If yes, how many members? ☐ 1 ☐ 2 ☐ 3 ☐ >4

B6. During daytime hours, the house is usually: ☐ Mostly occupied ☐ Mostly unoccupied, but household members work within or near the dumping area ☐ Mostly unoccupied, and household members work away from the dumping area

B7. Do you or anyone in your house smoke tobacco regularly (daily or almost daily)?

☐ Yes ☐ No

SECTION C: ENVIRONMENTAL EXPOSURE PERCEPTION

C1. In the last 30 days, did you notice bad smell coming from:

☐ Dumping ground ☐ Nearby garbage piles ☐ Both ☐ No

C2. In the last 30 days, did you notice smoke from:

☐ Dumping ground ☐ Nearby garbage piles ☐ Both ☐ No

C3. Does dust settle inside your home? ☐ Daily ☐ Weekly ☐ Less

C4. Is there an open drain or creek (nala) near the house? ☐ Yes ☐ No

C5. What is the main water source used by the household?

☐ Municipal tap ☐ Hand pump / borewell ☐ Tanker water ☐ Other

If other, specify: _____

C6. In the last 30 days, did anyone use nearby puddle/creek water for washing clothes, utensils, or body? ☐ Yes ☐ No

SECTION D: HEALTH OUTCOMES

D1. In the last month, has anyone in the household had: (select all that apply)

☐ Cough on most days ☐ Wheezing or breathlessness ☐ Skin rash after dust/water contact ☐ Diarrhoea (3+ loose stools in a day) ☐ Eye irritation (red/itchy/watery) ☐ Others

If others, specify: _____

D2. Anyone visited a doctor in the last 3 months for these problems? ☐ Yes ☐ No

D3. Has any household member been diagnosed by a doctor with a long-term breathing or stomach-related illness? (such as asthma, chronic bronchitis, or chronic stomach problems) ☐ Yes ☐ No

If yes, specify: _____

D4. Anyone diagnosed with TB by a doctor? ☐ Yes ☐ No

D5. Do you think living here reduces life expectancy? ☐ Yes ☐ No ☐ Not sure

SECTION E: ENVIRONMENTAL SAMPLING

E1. Is any environmental sampling planned at this household today? ☐ Yes ☐ No

E2. Consent for environmental sampling: With your permission, we would like to collect

ONE small environmental sample (air, dust, or water) near your home for research purposes only. No personal testing or results will be shared. Would you be willing to allow this? ☐ Yes ☐ No

E3. Type of sample to be collected:

☐ Air (open plate near house) ☐ Dust (from a surface like a window ledge or shelf) ☐ Water (source used by the household)

E4. Water sampling source:

☐ Tap water used by household ☐ Stored water used for daily needs

E5. Photograph of sampling location: (uploaded via device camera)

SECTION F: FIELD NOTES

Use this section only if there is something unusual about the household or exposure that is not captured above (e.g., active waste burning nearby, water source not listed, household located inside waste-processing area).

Field notes: _____

Note: This instrument was administered digitally using KoboToolbox by a trained interviewer. GPS coordinates were recorded automatically at the time of survey administration. All responses were recorded at the household level by one consenting adult respondent per household.