

**Table 5.2.1.1-3** Survey Result of Woreta PCO Subscriber Station  
(No.3/Arbaba/WEJI)

**(1) Site Information**

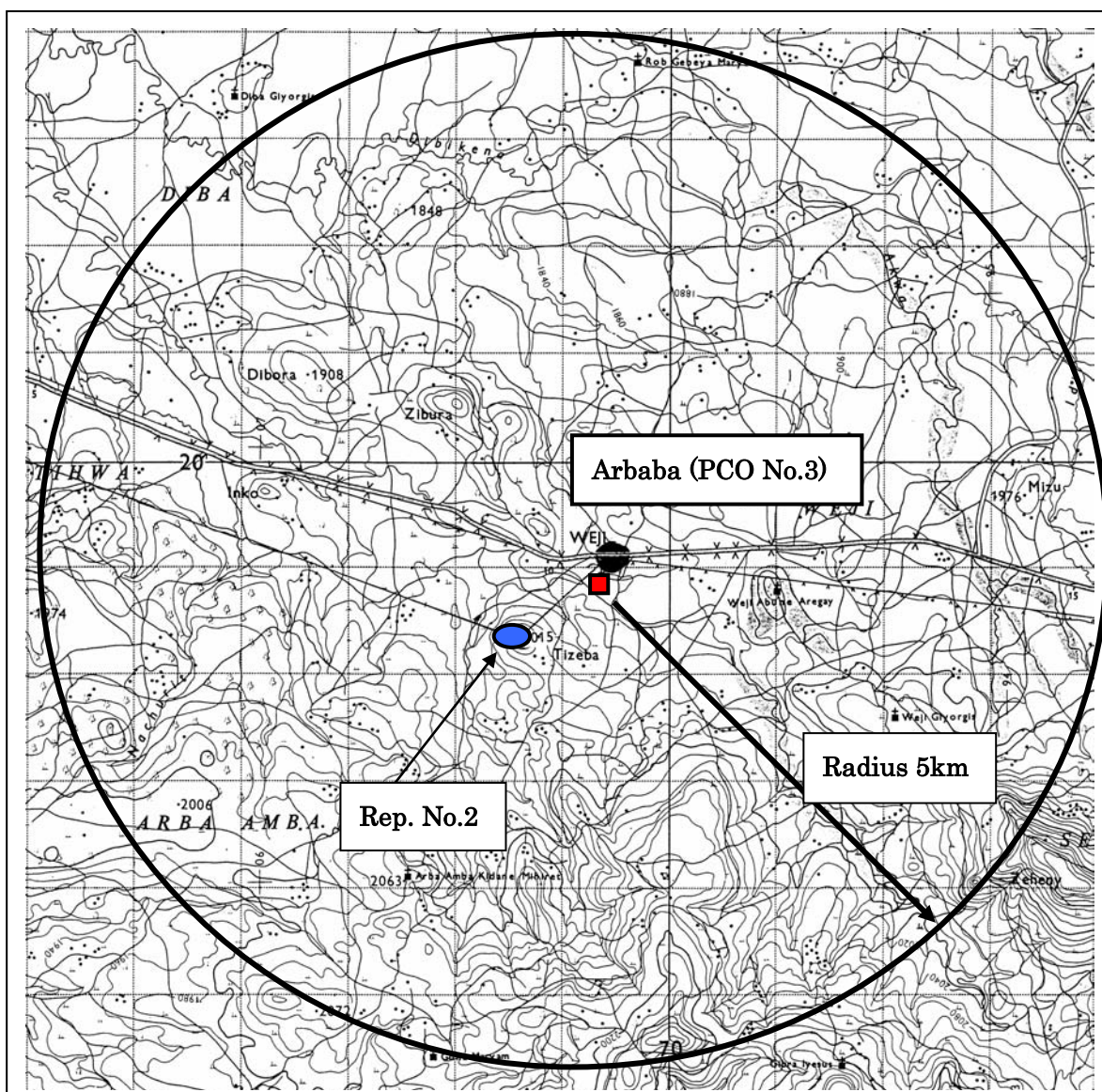
| <i>Category</i>           | <i>Survey Item</i>                       | <i>Survey Result</i>  | <i>Remarks</i>              |
|---------------------------|--|---|-----------------------------|
| 1. Location               | Site Name                                | Arbaba /WEJI (Elementary school)  | Map Survey Data             |
|                           | Address                                  |   |                             |
|                           | Latitude                                 | 11° 55' 50" N   |                             |
|                           | Longitude                                | 37° 47' 32" E   |                             |
|                           | Above Sea Level                          | 2,015 m   |                             |
|                           | Site condition                           | Attachment 5.2.1.1-No.3   |                             |
| 2. Building               | Building Structure                       | None  | Required                    |
| 3. Power                  | Commercial Power                         | None  | Solar power system required |
| 4. Grounding              | Indoor Grounding                         | None  | Required                    |
|                           | Outdoor Grounding                        | None  | Required                    |
| 5. Equipment Installation | Vehicle Access Road                      | OK (near the main road, 30m)  | Use empty space             |
|                           | Material Temporary storage               | Approx. 30m × 30m available   |                             |
|                           | Vehicle Carrying in/Parking              | OK  | Request for placing         |
|                           | Minimum Entrance Security Guard          | Carry-in road: Approx. 5m<br>Not required (The janitor of the elementary school can take charge.) |                             |
| 6. Others                 | Population of Site (Within 2km diameter) | About 750 households  |                             |
|                           | Temperature/Humidity/Precipitation Data  |   |                             |

**(2) PCO Subscriber Station**

| <i>Category</i> | <i>Survey Item</i>      | <i>Survey Result</i>                               | <i>Remarks</i>        |
|-----------------|-------------------------|--|-----------------------|
| 1. System       | No. of Subscriber Lines | 8 lines (VoIP compatible telephones)               |                       |
| 2. Antenna      | Antenna Facility        |  |                       |
|                 | PCO Antenna Height      | 10m  |                       |
|                 | PCO Antenna Direction   | Azimuth: 264.6° (in the direction of base station) |                       |
| 3. Tower        | Presence of Towers      | None   | To be newly installed |
|                 | Tower Height            | Pole: 10m (new installation)                       | To be newly installed |
|                 | Installation Location   | There are installation spaces on the ground.       |                       |
| 4. Equipment    | Space for Equipment     | No space   | Required shelter      |

(3) Subscribers (Demand Area)

| Category             | Survey Item           | Survey Result                                 | Remarks                                   |
|----------------------|-----------------------|---|---|
| 1. Demand Area       | Summary of Topography |   |   |
|                      | - Above Sea Level     | 2,015 m                                       | Verified by 1/50,000 map and visual check |
|                      | - Land Feature        | Basin (surrounded by mountains on both sides) |   |
|                      | - House               | One-story houses                              |   |
|                      | - Tree                | About 10 m high trees here and there          |   |
| Expected Demand Area | Attachment - 3        |   |   |



Attachment-3 Expected Demand Area (Reference)



Attachment 5.2.1.1 - No.3

**Table 5.2.1.1-4** Survey Result for Woreta PCO Subscriber Station (No.4/Sheleko Medhane)

**(1) Site Information**

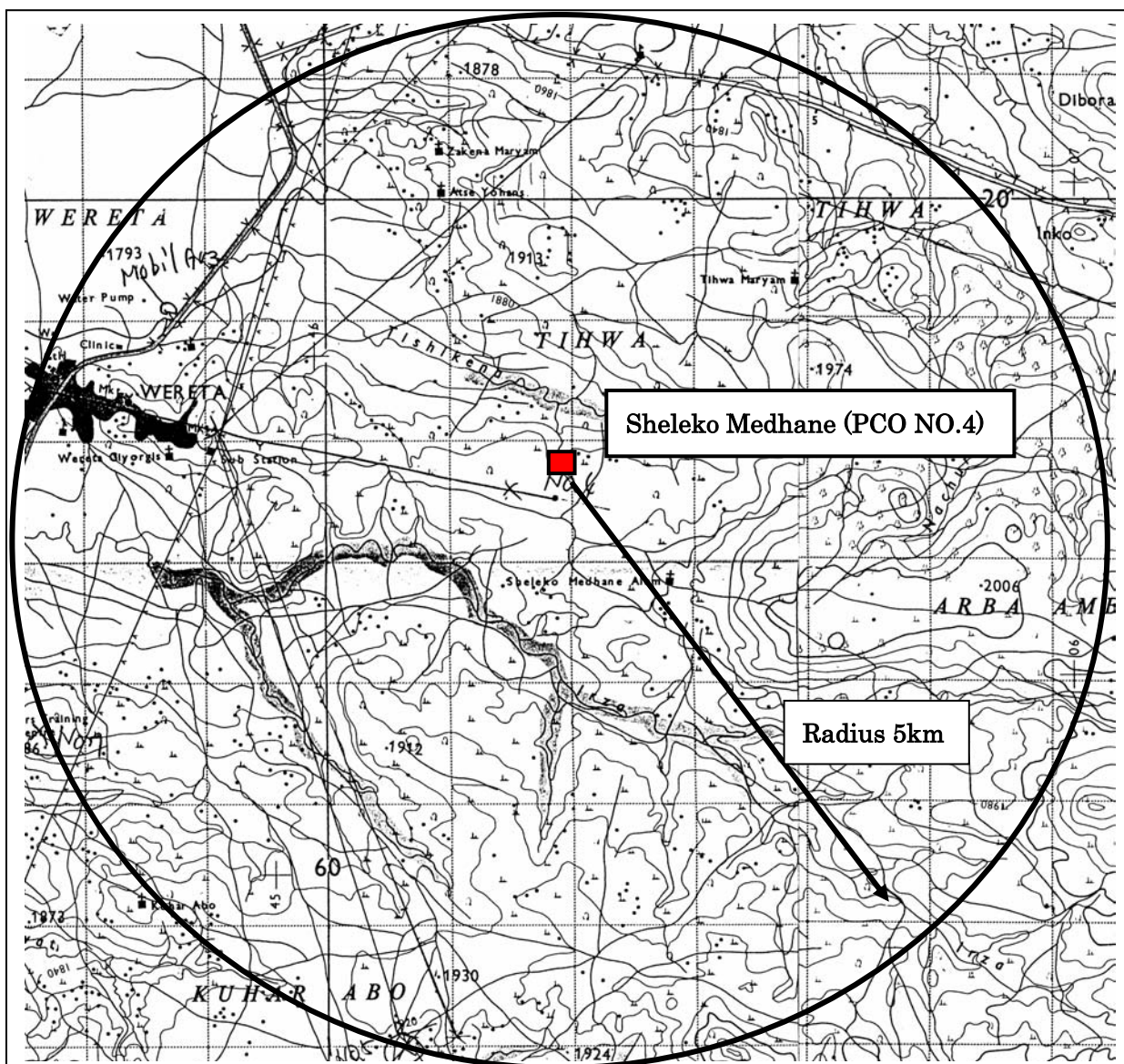
| <i>Category</i>           | <i>Survey Item</i>   | <i>Survey Result</i>  | <i>Remarks</i>                                 |
|---------------------------|--|---|--|
| 1. Location               | Site Name<br>Address<br>Latitude<br>Longitude<br>Above Sea Level<br>Site condition   | Sheleko Medhane (Elementary school)<br><br>11° 55' 00" N<br>37° 48' 04" E<br>1,860 m<br>Attachment 5.2.1.1-No.4   | Map Survey Data                                |
| 2. Station                | Building Structure   | None  | Required                                       |
| 3. Power                  | Commercial Power   | None  | Solar power system required                    |
| 4. Grounding              | Indoor Grounding<br>Outdoor Grounding  | None<br>None  | Required<br>Required                           |
| 5. Equipment Installation | Vehicle Access Road<br>Material Temporary storage<br><br>Vehicle Carrying in/Parking<br>Minimum Entrance<br><br>Security Guard | OK (near the road, 50m)<br>Approx. 30m × 30m available<br><br>OK<br>Carry-in road: Approx. 5m in the meadow<br>Not required (The janitor of the elementary school can take charge.) | Use empty space<br><br><br>Request for placing |
| 6. Others                 | Population of Site (Within 2km radius)<br>Temperature/Humidity/<br>Precipitation Data  | About 250 households  |  |

**(2) PCO Subscriber Station**

| <i>Category</i> | <i>Survey Item</i>  | <i>Survey Result</i>   | <i>Remarks</i>                                 |
|-----------------|---|--|--|
| 1. System       | No. of Subscriber Lines   | 8 lines (VoIP compatible telephones)   |  |
| 2. Antenna      | Antenna Facility<br>PCO Antenna Height<br>PCO Antenna Direction | 10m<br>Azimuth: 273.3° (in the direction of base station)                            |  |
| 3. Tower        | Presence of Towers<br>Tower Height<br>Installation Location     | None<br>Pole: 10m (new installation)<br>There are installation spaces on the ground. | To be newly installed<br>To be newly installed |
| 4. Equipment    | Space for Equipment   | No space   | Required shelter                               |

(3) Subscribers (Demand Area)

| Category       | Survey Item           | Survey Result               | Remarks                                   |
|----------------|-----------------------|-----------------------------|---|
| 1. Demand Area | Summary of Topography |                             |   |
|                | - Above Sea Level     | 1,860 m                     | Verified by 1/50,000 map and visual check |
|                | - Land Feature        | In the meadow (on the hill) |   |
|                | - House               | One-story houses            |   |
| - Tree         | In the meadow         |                             |   |
|                | Expected Demand Area  | Attachment - 4              |   |



Attachment-4 Expected Demand Area (Reference)



Attachment 5.2.1.1-No.4