

**TABLE 2** Details of profile lines with number and section name landform and length

| <b>S. N.</b> | <b>Profile Line (PL)</b> | <b>Line Name</b> | <b>Landform</b>        | <b>Description</b>  | <b>Length (km)</b> |
|--------------|--------------------------|------------------|------------------------|---|--------------------|
| 1            | PL - 1                   | A – A'           | Basin water-divide     | NW side along the basin water-divide  | 12.4               |
| 2            | PL - 2                   | B – B'           | Basin water-divide     | NE side along the basin water-divide  | 11.5               |
| 3            | PL - 3                   | C – C'           | Water-divide           | Middle of sub-basin, south sloping inter-channel upland   | 8.6                |
| 4            | PL - 4                   | D – D'           | Water-divide           | Middle of sub-basin, SE sloping inter-channel upland  | 10.2               |
| 5            | PL - 5                   | E – E'           | Water-divide           | Middle of sub-basin, SW sloping inter-channel upland  | 8.1                |
| 6            | PL - 6                   | G – G'           | Drainage Depression    | Upper reaches, middle of sub-basin, along the drainage channel sloping towards south              | 6.6                |
| 7            | PL - 7                   | H – H'           | Drainage Depression    | Middle of sub-basin, NNE-SSW sloping inter-channel upland   | 6.2                |
| 8            | PL - 8                   | F – F'           | Water-divide           | Close to main channel and near to the southern sub-basin boundary                                 | 5.5                |
| 9            | PL - 9                   | I – I'           | Drainage Depression    | Upper reaches, middle of sub-basin, along the drainage channel sloping towards south              | 8.9                |
| 10           | PL - 10                  | J – J'           | Drainage Depression    | Middle reached, close to eastern side sub-basin boundary, along the channel sloping towards south | 8.8                |
| 11           | PL - 11                  | K – K'           | Resistivity Depression | High resistivity linear zone, crossing sub-basin in WSW - ENE direction                           | 15.8               |
| 12           | PL - 12                  | L – L'           | Resistivity Depression | Resistivity low linear zone, running SW-NE in the eastern side of sub-basin                       | 5.0                |
| 13           | PL - 13                  | M – M'           | Resistivity Depression | Resistivity low linear zone running in N-S in middle of upper reaches                             | 7.6                |
| 14           | PL - 14                  | N - N'           | Multi Landform         | Straight West - East running across the sub-basin   | 16.7               |
| 15           | PL - 15                  | O - O'           | Multi Landform         | Straight West - East running across the sub-basin   | 19.3               |
| 16           | PL - 16                  | P - P'           | Multi Landform         | Straight West - East running across the sub-basin   | 8.5                |

|  |                      |        |                |   |      |
|--|----------------------|--------|----------------|---|------|
| 17   | PL - 17              | Q - Q' | Multi Landform | Straight North - South running across the sub-basin               | 9.7  |
| 18   | PL - 18              | R - R' | Multi Landform | Straight North - South running across the sub-basin               | 13.6 |
| 19   | PL - 19              | S - S' | Multi Landform | Straight North - South running across the sub-basin               | 11.5 |
| 20   | PL - 20 <sup>a</sup> | T - T' | Basin divide   | Higher the elevation, deeper the water table                      | 14.4 |
| 21   | PL - 21 <sup>a</sup> | U - U' | Water-divide   | Water table deeper as elevation decreases along the water-divide, | 8.0  |
| 22   | PL - 22 <sup>a</sup> | V - V' | Water-divide   | There is definite trend of water table with elevation decrease    | 8.0  |
| 23   | PL - 23 <sup>a</sup> | W - W' | Water-divide   | Elevation decreases water table become shallower                  | 4.1  |
| <i>Note:</i> <sup>a</sup> Profile based direct plot of the observation station data. |                      |        |                |   |      |