**Existing boreholes East Darfur Borehole Data**

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| **Borehole Name** | **El Nimir** | **El Ferdous** |
| Location (Lat., Long.) |  | N 11˚ 5.663' E 25˚ 48.459' |
| Daily Water Demand (m3) | 70 | 90 |
| Ground water temperature (°C) | 30 | 32 |
| Pump cable Length (m) |  | 110 |
| Borehole Yield (m3/hr) |  | 22 |
| Depth of Borehole (m) | Not less than 240m no data available | 270 |
| Depth to pump (m) | 91 | 90 |
| Strainer depth - top and bottom (m) | Not less than 190m no data available | 6 |
| Size of Casing (inches) | 8.625 | 8.625 |
| Static Water Level (m) | 68 | 67.2 |
| Dynamic Water Level (m) | 73 | 70.5 |
| Tank top water level (m) | 7 | 9 |
| BH ground Elevation (m) | 460 | 1 |
| Pipeline length to Tank (m) | 12 | 160 |
| Equivalent length for fitting losses (m) | 2 | 2 |
| Peak design flow (m3/h) | 4 | 20 |
| Total Dynamic Head at peak design flow (m) | 88 | 6m for pipeline at 20m3/h, the overall head is 100m |
| Existing Generator size (kVA) | 33 | 33 |
| Existing Tank Capacity (m3) | 50 | 50 |

**Design should consider prolonged cloud cover- worst-case scenario (July – August)**