

Guidelines for procurement of hand held devices under the modified National Rural Drinking Water Programme (effective from 01-04-09)

**The modified National Rural Drinking Water Programme lays immense emphasis on data collection through hand held devices at the grass root level for which necessary provisions have been made in the programme guidelines. Following are the broad minimum specifications and guidelines which should be adhered to, by the states, while procuring these devices.**

1. Processor 500 MHz
2. Memory – Internal – 128 MB RAM, 256 MB ROM
3. External Memory Card slot - micro/mini for external flash memory along with 2GB memory card OR additional Inbuilt memory of 2GB
4. Operating System Windows Mobile 6.1 or higher
5. Resolution 240x320 pixel
6. Display - size 2.4 inch with 64K/65K color palette with clear readability in sunlight, TFT Resistive Touch Screen (optional)
7. QWERTY keyboard
8. USB Connectivity
9. High sensitivity GPS receiver - Network independent with integrated receiver system and embedded antenna. Enabled with fast acquisition times and high accuracy under dense foliage. Resolution of at least 2 meters
10. GPRS enabled
11. 2 mega pixel camera
12. Battery – 6 hours usage time. One extra battery pack with suitable warranty clause.
13. Ruggedness specifications – compliance with IP54/55 or above (Desirable)
14. 24x7 technical support on phone across the state.
15. 3 years comprehensive warranty of the device.

It is advisable that the field user should carry an extra battery and if available a solar battery which is also rechargeable from wall socket or car battery.

Before procurement, state governments should ensure the facts about the device features, battery backup etc. preferably through field tests.

Ruggedness specifications mentioned in point 13 above is a desirable feature, keeping in view the rural conditions where these devices would be used. Vendors could be specially asked to comply with these specifications for ensuring durability of the devices and their protection from heat, dust, dirt and other factors.

It is desirable that turnkey maintenance of the devices for at least three years including replacement in case of any failure may be ensured by the state government. Replacement should be made with a device of the same or higher configuration.

The procurement should be packaged with on demand training program by the vendor, on usage and handling of the device, at the Subdivision level, for the end user.