

# ADVANCED TECHNOLOGIES FROM ISRO

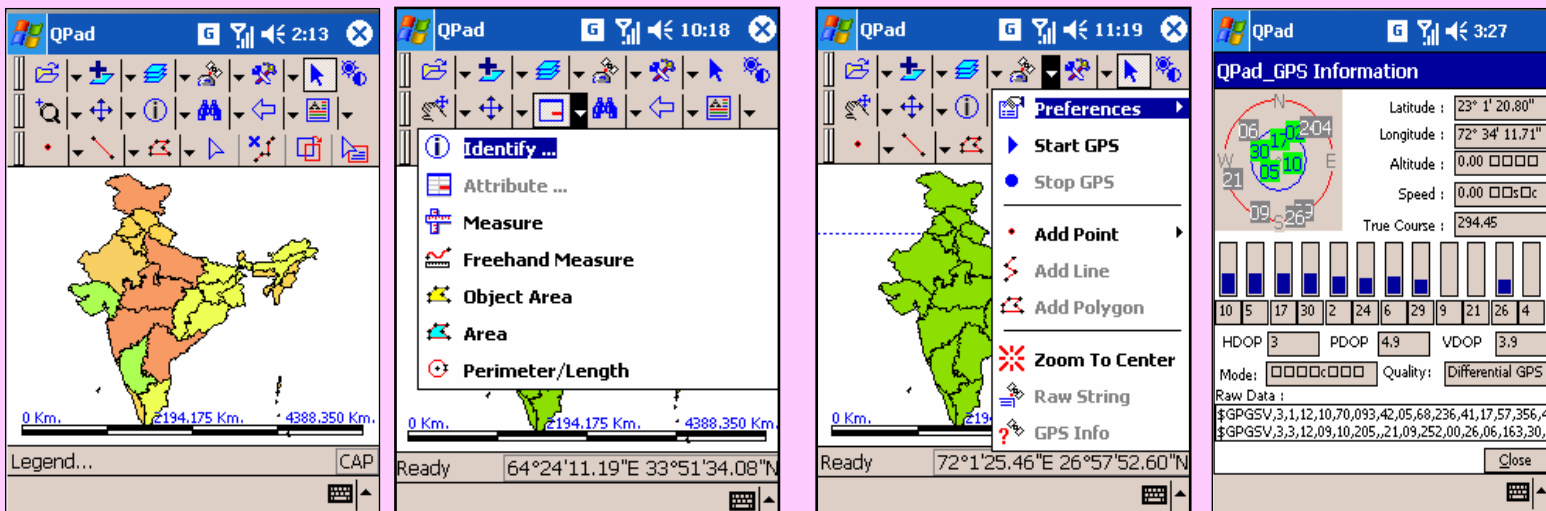
Interest Exploration Note

TT / 09 / 03 /SAC

## QPAD Mobile GPS-GIS Software

The Indian Space Research Organisation (ISRO) has developed QPAD Mobile GPS-GIS Software, which will find wide commercial and special applications.

Q-Pad is menu driven mobile GIS-GPS software and allows access and manipulation of GIS data in field using Pocket PC. Real time integration of GPS data with GIS layer and overlay of GPS, GIS and RS data is made easy through QPad.



SAMPLE Q-PAD SCREEN SHOTS

### Q-PAD FUNCTIONS

#### GIS Functions

- Display Vector Data (unique colour, graduated colour, using symbols)
- JPEG/BMP (brightness / contrast control)
- Overlay
- Navigation
- Layers Management
- Identify and Find
- Query Builder (single theme)
- Logical Operator Based Query
- Label Creation
- Measurement (area, perimeter, distance)
- Cursor Coordinate (DD MM SS SSS)
- Spatial Data and Attribute Data editing
- Map Composition in BMP format

## **GIS Functions**

- NMEA Protocol Support for CGA, GSA, GLL Strings
- GPS Settings (Baud Rate, Parity, Data Bits, Stop Bits)
- GPS Data Capture & Integration with Active Shape file GIS Layer of Point, Line, Polygon
- GPS Sky Plot with Satellite Status
- GPS Coordinates
- Active Layer panning depending upon GPS derives latitude and Longitude
- Debug Window / ASCII Dump for GPS Data
- GPS Quality Factor (HDOP, VDOP, PDOP)
- 2D and 3D FIX
- Date and Time UTC and Indian

## **SALIENT FEATURES**

- Compatible with Win CE Pocket PC
  - Operating System : Win CE 3.0
  - Display : H-240 & V-320 Pixel
  - RAM : Minimum 32 MB
- Built Using Callable Win CE GIS&GPS Objects Library
- Supports CF GPS
- GPS/GIS Data Handling
  - Display, Navigation, Editing, Overlay, Querying
  - Measurement, Label, Symbology, Map generation
- Data Interface
  - Shape file for Vector Data
  - BMP/JPEG for Raster Data
- Installation
  - Single file Qpad\_Setup.Cab Transfer to Pocket PC

## **APPLICATION(S)**

- In-situ Data Collection
- Site Verification of Mapping Data
- Field Verification of mapping Data
- Field Level Disaster Damage Assessment
- GPS Data Collection

## TECHNOLOGY TRANSFER FROM ISRO

ISRO is willing to offer the know-how of this technology to entrepreneurs / industries in India. Capable manufacturing industries in acquiring this know-how may write with details of their present activities, requirements and plans for implementation, infrastructure and technical enterprise available with them, their own market assessment, if any, and plans for diversification to the address given below. Alternatively, you can also fill in the enquiry form provided in this website.

For further details, please contact:

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2009