# DGPS SURVEY & MAPPING OF CA AREA

## CA SITE: SY.NO.98/1, 98/2, 98/3, 98/4, KOMMEMARRI

## VILLAGE, PEAPULLY MANDAL, KURNOOL DISTRICT

## DHONE RANGE, KURNOOL DIVISION

*Prepared for*                                                    *Prepared by*

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# 1.    PROJECT SUMMARY

## 1. PROJECT BACKGROUND

*CSR Geospatial,* Hyderabad, has done by surveying and mapping of FCA/CA areas using DGPS .

## 2. DGPS SURVEY METHODOLOGY

1) CA boundaries and the internal features, such as soil and water conservation structures, were surveyed using Trimble SPS985 , *DGPS with Omnistar HP* dual frequency signal correction. The observations were recorded with an accuracy of 20 cm.

2) The concerned forest department officials have duly verified and attested in the field records that the DGPS readings were recorded within the specified accuracy of 20 cm.

## 3. MAPPING OF FCA AREAS

1) The mapping of CA areas has been done using Arc MAP 10.0.

2) The real-time DGPS coordinates were plotted and mapped as *point layer – 'DGPS Survey Points.shp'.*

3) Attribute data such as *Circle, Division, Range, site_name, , latitude, longitude, Northing, Easting, Height_MSL (m), Height_HAE (m) and FCA category* have been assigned to the FCA pillars.

4) The CA pillars were joined using a polygon in the polygon layer – 'Mining_Area.*shp*'. The perimeter and area attributes were derived using the measuring tools of Arc Info.

5) The above GIS layers containing *DGPS Survey Points, CA_Area* have been exported as .KML FILE.

6) A detailed map plot of each CA area has been prepared and saved as PDF and JPG files.

## 4. DELIVERABLES

The following deliverables have been prepared and submitted for the surveyed CA area:

1) Hardcopy deliverables
   - *Survey report*
   - *Colour map of each CA area on scale better than 1:10000 (Fig. 1)*
   - *DGPS Survey coordinates with attribute data (Table 1)*

2) Softcopy deliverables
   - *DGPS data in Trimble native format (.SPJ file)*
   - *Map of each CA area as PDF and JPG files*
   - *Digital photograph of each Point pillar as well as Photograph of Controller accuracy is within 20 cm during the survey.*