Presented By:
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TRADITIONAL & MODERN SURVEY METHODOLOGY IN AP CAPITAL CITY AREA
AP Capital City Master Plan and Map by Singapore Team
<table>
<thead>
<tr>
<th>Description</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP CAPITAL REGION</td>
<td>8643 Sq.km (56 mdls)</td>
</tr>
<tr>
<td>AP CAPITAL CITY</td>
<td>217.23 Sq.km</td>
</tr>
<tr>
<td>Seed CAPITAL</td>
<td>16.9 Sq. km</td>
</tr>
<tr>
<td>Temporary Secretariat</td>
<td>45.29 Ac (28.04 Ac Built up Area)</td>
</tr>
<tr>
<td>GEOGRAPHICAL AREA</td>
<td>53749-39 Ac</td>
</tr>
<tr>
<td>GOVERNOMENT LANDS</td>
<td>14791-52 Ac</td>
</tr>
<tr>
<td>PRIVATE LANDS</td>
<td>38957-87 Ac</td>
</tr>
<tr>
<td>CONSENT UNDER LPS</td>
<td>32583-55 Ac</td>
</tr>
<tr>
<td>DEVELOPMENT AGREEMENTS</td>
<td>24256-07 Ac</td>
</tr>
<tr>
<td>ANNUITY PAID</td>
<td>100-85 Cr</td>
</tr>
</tbody>
</table>
ANDHRA PRADESH CAPITAL CITY DEVELOPMENT PROJECT

PROJECT AREA/MASTER PLAN = 53749-39 Ac
RETURNABLE LANDS UNDER LPS = 9797-71 Ac
COMMON AREA = 18143-92 Ac
CRDA LANDS = 8346-21 Ac
TRADITIONAL SURVEY METHODOLOGY

- Mughal Revenue System (1570 AD)
  During AKBAR Reign an elaborate system of land management and revenue assessment was evolved.

- Sur System (1540 - 45 AD):
  - Sher Shah’s land revenue reforms have unique importance in the administrative history of India for they served as the model for future agrarian systems.
  - After a careful and proper survey of the lands, the State settled the land revenue direct with the cultivators, the demand of State being fixed at 1/3 or 1/4 of the average produce, payable either in kind or in cash.
LAND SURVEY IN MADRAS PRESIDENCY UNDER BRITISH RULE

- The British Government established Board of Revenue in 1786.
- A Revenue survey was conducted to determine the wealth of the various provinces and their power to bear taxation.
- Regular survey of land and work was started in 1858 under Madras Survey Department.
CADAstral Survey

- First it was introduced in 1873 – 74 in the districts Kurnool, Salem, Madurai, Bellary, Tirunchinapalli.
- 1891-92 in the districts of Krishna, Anantapur, Malabar and South Canara.
- Unique features:
  1. Demarcation
  2. Survey
  3. Mapping and
  4. Publication
CADASTRAL SURVEY

• Triangle system of survey was the first and most scientific one introduced in Madras Presidency.

• By this system, the field boundaries were durably demarcated and the whole field was divided into many triangles and they formed the each survey field.

• It was first introduced in Anantapur district during 1880-86

• The Block Map System was implemented in 1890.

• By this method economy would be achieved

• The Diagonal Offset and Triangle System was introduced

• The Madras Survey Department constituted in the year 1854
CADAstral Survey

Survey

- The survey work done in 3 types.
  - Estate Survey
  - Survey of Municipalities and other urban areas.
  - Survey ryotwari and other minor inams.
Government Organisations.

- Survey of India was involved in Cadastral Surveys in India
- Each State is adopting their own methods of cadastral surveys
- Survey of India is providing topographical maps for entire country on various scales.
- Other organizations assisting-
  - NRSA, NIC, SAC, IITS etc
The object of land survey is the determination of the boundaries and the relative position of the objects on any portion of the earth’s surface in order to produce pictorial representation of the land on paper with all distinguishing features.
Land survey

<table>
<thead>
<tr>
<th>Topographical survey By the survey of India</th>
</tr>
</thead>
<tbody>
<tr>
<td>• To prepare map with various physical features (Topo detail) river, streams Roads Railways Burial grounds, temples, hills, tanks etc. Technical details and also contours.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cadastral (Revenue survey) By the survey &amp; land Records Dept</th>
</tr>
</thead>
<tbody>
<tr>
<td>• To demarcate boundaries of each land parcel, preparation &amp; maintenance of land records for tax collection for establishment of ownership of the land, for registration purpose etc.,</td>
</tr>
<tr>
<td>• Land Survey is a Status subject.</td>
</tr>
<tr>
<td>SI. No.</td>
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<tr>
<td>--------</td>
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<td>1</td>
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<tr>
<td>23</td>
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<tr>
<td>24</td>
</tr>
<tr>
<td>25</td>
</tr>
</tbody>
</table>

**Total**: 217.23

GIRIDHAR ARAMANE  
PRINCIPAL SECRETARY TO GOVERNMENT
Principle of survey

- working from whole to part
Objectives of Cadastral Survey:-

- Determination of village, field boundaries
- Preparation of village maps, field maps, area list, land register containing the particulars like survey number, extent, classification, assessment etc.
LAWS APPLICABLE

- AP Survey and boundaries Act 1923
- AP Survey manual of department rules volume no. 1, 2, 3
- BSO (Board of Revenue Standing Order) 34A, 34B
### System of Survey:

- Totally there are 8 systems of survey.
- Phoimash: In quarter of 19\textsuperscript{th} Century
- Khasra: 1858-1865 years
- Simple Triangulation: 1866-1877 years
- Triangle with offsets: 1878-1886 years
- Plane Table: 1887-1891 years
- Block map: 1892-1896 years
- Punganur: 1918-1920 years
- Diagonal offset (D&O) system: since 1900 years
- At present D&O system is being used in Andhra Pradesh.
# Stages of D&O System

<table>
<thead>
<tr>
<th>Process</th>
<th>Work Done</th>
</tr>
</thead>
</table>
| A Process| Village boundary demarcation  
Line Clearance  
Khandam demarcation  
Topo details identification  
M.C. (Minor Circuit) filed formation  
Planting of survey stones |
| B Process| Traverse Survey  
Traverse Computation  
Traverse Plotting |
| C Process| Field demarcation  
Field measurement  
Plotting village map  
Finishing village map & area computation |
FINAL DELIVERABLES

- BOUNDARY DEMARCATION SKETCH
- TRAVERSE FIELD BOOK
- TRAVERSE SHEET
- FIELD DEMARCATION SKETCH
- FIELD REGISTER
- FIELD MEASUREMENT BOOK
- INSPECTION REPORTS
- VILLAGE MAP
- AREA LIST
- FINAL EXAMINATION REPORT
- PURTAL SKETCHES
FIELD SKETCH
<table>
<thead>
<tr>
<th>Name</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>129 Laxmi Narayan and Appasa minor guardian Narayan</td>
<td></td>
</tr>
<tr>
<td>130 Chhataril Vukanandha</td>
<td></td>
</tr>
<tr>
<td>56 Laxmi Tripathiyan and Shridhar</td>
<td></td>
</tr>
<tr>
<td>122 Laxmi Narayan and Appasa minor guardian Narayan</td>
<td></td>
</tr>
<tr>
<td>94 Konarkali Rupiya and Shridhar Vinod</td>
<td></td>
</tr>
<tr>
<td>87 Konarkali Tapriya and Shridhar Vinod</td>
<td></td>
</tr>
<tr>
<td>32 Improvers Mehta and Shridhar Vinod</td>
<td></td>
</tr>
<tr>
<td>67 Urmilodi Lahamana and Shridhar Vinod</td>
<td></td>
</tr>
<tr>
<td>65 Tapralal Supaya and Shridhar Vinod</td>
<td></td>
</tr>
<tr>
<td>38 Vagan Roca and Pushkala minor guardian Vukanandha</td>
<td></td>
</tr>
<tr>
<td>68 Ramesh Kamps and Shridhar Vinod</td>
<td></td>
</tr>
<tr>
<td>41 Teli Bodha and Shridhar Vinod</td>
<td></td>
</tr>
<tr>
<td>129 Teli Bodha minor guardian Eshana</td>
<td></td>
</tr>
<tr>
<td>129 Teli Bodha minor guardian Eshana</td>
<td></td>
</tr>
<tr>
<td>129 Teli Bodha minor guardian Eshana</td>
<td></td>
</tr>
</tbody>
</table>
VILLAGE MAP
|   |    |    |    |    |    |    |    |    |    |    |    |    |
|---|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 104-A | 7.5300 | 0.0000 | 7.5300 | 27.93 | 0.0000 | 112 | 0.6100 | 1.5800 |
| 2 |
| 3 |
| 4 |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |
| 10 |
| 11 |
| 12 |
| 13 |
| 14 |
| 15 |
| 16 |
IMPROTANT SECTONS OF AP SURVEY & BOUNDARIES ACT, 1923

- Section 4 (i) – Government appoints survey officers
  (ii) Jurisdiction
  (iii) Powers delegation
- Section 5 – Gazette notification
- Section 6 – Survey notice to ryoths
- Section 7 – Survey execution
- Section 8 – Cost of stones will be borne by ryoths
- Section 9 (1) – Decision on demarcation of undisputed lands
- Section 9(2) – Notices to the concerned ryoths
- Section 10(1) – Decision on demarcation of disputed lands
• Section 10(2) – Notices
• Section 11 – Appeals on 9(1) & 10(1)
• Section 12 – Appeals time – 2 months
• Section 13 – Final notification
• Section 14 - Appeal before civil courts
• Section 15 – Survey stones protection by ryoths
• Section 16 – Survey stones supervision by revenue & survey officials
• Section 22 – Empowered to demolish any obstruction if comes across survey lines
• Section 26 – Government may make rules under this act.
<table>
<thead>
<tr>
<th>Departmental Hierarchy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commissioner/Director (Survey settlement &amp; Land Records) – State Level</td>
</tr>
<tr>
<td>Regional Deputy Director – Regional Level</td>
</tr>
<tr>
<td>Assistant Director – District level</td>
</tr>
<tr>
<td>Inspector of Survey</td>
</tr>
<tr>
<td>Deputy Inspector of survey – Divisional Level</td>
</tr>
<tr>
<td>Surveyor/ Deputy Surveyor – Mandal Level</td>
</tr>
</tbody>
</table>
Survey Instruments:

- **Chain (100 Links):**
  - a) Gunter Chain – 66 feet length – Link - 7.92 inches
  - b) Metric Chain – 20 metres length – Link - 20cm

- **To measure the measurements**

- **Cross Staff:** Used to form perpendicular offsets. Consists of wooden blocks – 4”X4”X2 ½”, 4 ½” – 5 feet long with iron rod with 5/8’ diameter.

- **Arrows:** 10 numbers – 1-1 ½” feet long. To put at the end of each chain measurement.

- **Standard pole with Red & White band flag:** 6 feet long used to place at the junctions, bends... for identification.

- **Thedolite:** To take the angular measurements of traverse.

- **ETS (Electronic Total Station):** To take the linear & angular measurements by using bhumithi software.

- **EDM (Electronic Distance Measurement) Unit**
Scales of Maps:

- **For Town Survey:**
  - Block Maps:
    - Closed Blocks – 10 Acres – 1: 500
    - Medium Blocks – 40 Acres – 1:1000
    - Open Blocks – 160 Acres – 1:2000
- **For Cadastral Survey:**
  - Revenue Village Maps:
    - 18” = 1 Mile
    - 9” = 1 Mile
    - 16” = 1 Mile
    - 8” = 1 Mile
  - FMB (Field Measurement Book) Sketches:
    - For less than 5 Acres = 1:1000
    - 5 to 20 Acres = 1:2000
    - More than 20 Acres = 1:5000
- **D Sketch (Demarcation Sketch) for Khandams:**
  - 1:4000
Allowance of Measurements:

- **Linear measurements:**
  - Wet lands - 1 link per 1 chain up to 10 links
  - Dry lands - 1 link per 1 chain up to 20 links
  - Area – 5%
  - Village map - 1%

- **Traverse:**
  - 1 minute for 5 stations for village boundary
  - 1 minute for 2 stations for Khandam boundary & Minor circuits.
  - Town boundary - 1/1000
  - Ward boundary – 1/2000
TOWN SURVEY IN ANDHRA PRADESH

- Vishakhapatnam -1922(Year)
- Vijayawada – 1922&1964
- Guntur - 1923
TOWN SURVEY STATUTARY PROCEDURE WITH TIME LINE

- Section 5 notification proposals to Commissioner, S.S & L.R, AP, Hyderabad.
- Approval of section 5 notification by the Commissioner SS & LR
- Publication in state gazette section 5 notifications in two successive monthly district – Gazettes.
- Publication of notice u/s 6(1) by the AD, (S&LR) -15 days
- Town survey operations & Records preparation
- Issue of 9(2) notices calling for objections – 2 Months
- Disposal of 10(1), 11(1) appeals
- Publication of sector 13th notification
- Processes – 6months 3 weeks
TOWN SURVEY OPERATIONS

- Conducting of joint inspection to mark the boundary of CRDA Capital city
- Preparation of maps
- Formation of wards, blocks, cadastral survey fields
- Preparation of index map
- Boundary demarcation (A process)
- Traverse survey (B Process)
- Traverse computation & plotting (C&D process)
- Field demarcation (E process)
- Measurement work (F process)
- Inspection work
- Final check operations
- Mapping (G & H process)
Types of Blocks in Town Survey

1) **Closed Block**: It is very thickly built up area like commercial complex, shopping complex and etc.,
   Extent : 10 Acres
   Scale of block map: 1:500

2) **Medium Blocks**: Houses with compound walls / gardens will be covered in this block.
   Extent : 40 Acres
   Scale of block map : 1:1000

3) **Open Block**: Agricultural lands with scattered buildings will be covered in this block
   Extent – 160 Acres
   Scale of block map : 1:2000
RECORDS & REGISTERS OF TOWN SURVEY

- INDEX MAP
- P.D. SKETCH (PRELIMINARY DEMARCATION SKETCH)
- Land register
- Correlation statement
- encroachment register
- Stone account register
- Notices served register
- Extract of revenue and capital city/local body accounts.
- Plotted demarcation sketch
- Rough block map
- Fair correlation sketch (old & new sy.nos with red & black colour)
- Rough area list
- Field register
- Tie line field book
- Record of measurement
- Revenue map
- Ward map
TOWN REVENUE MAP
<table>
<thead>
<tr>
<th>Form No.</th>
<th>Sheet No.</th>
<th>Number</th>
<th>Name of Survey or Plan</th>
<th>Local Authority</th>
<th>Number of Feet on Plan</th>
<th>Rate per Acre</th>
<th>Rate per Foot</th>
<th>Assessment</th>
<th>Description</th>
<th>Remarks</th>
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<tbody>
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<td>61</td>
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</tr>
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</table>
RECORDS SUPPLIED TO CRDA/
Local body

- Town map, ward map, revenue map, record of measurement for each block in duplicate.
- Town survey register
- Encroachment register
- Tie line field book
<table>
<thead>
<tr>
<th>Type of stones</th>
<th>Stone size</th>
<th>Where it is used</th>
<th>Symbol</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>‘A’ Class</td>
<td>90 X 22.5 X 22.5 cm</td>
<td>For cadastral survey, above the ground</td>
<td>![Symbol]</td>
<td>Used at village Tri Junctions, pointers (adjacent to village Tri Junction)</td>
</tr>
<tr>
<td>‘B’ Class</td>
<td>60 X 15 X 15 cm</td>
<td>For cadastral survey above the ground</td>
<td>![Symbol]</td>
<td>Used at village Bi Junctions.</td>
</tr>
<tr>
<td></td>
<td>60 X 15 X 15 cm</td>
<td>For cadastral survey above the ground</td>
<td>![Symbol]</td>
<td>When field Tri Junction falls on village boundary</td>
</tr>
<tr>
<td></td>
<td>60 X 15 X 15 cm</td>
<td>For cadastral survey above the ground</td>
<td>![Symbol]</td>
<td>When field Tri Junction falls on Khandam boundary</td>
</tr>
<tr>
<td>Type of stones</td>
<td>Stone size</td>
<td>Where it is used</td>
<td>Symbol</td>
<td>Purpose</td>
</tr>
<tr>
<td>---------------</td>
<td>------------</td>
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</tr>
<tr>
<td></td>
<td>60 X 15 X 15 cm</td>
<td>For cadastral survey above the ground</td>
<td>![Symbol]</td>
<td>For field Tri Junction</td>
</tr>
<tr>
<td></td>
<td>60 X 15 X 15 cm</td>
<td>For cadastral survey above the ground</td>
<td>![Symbol]</td>
<td>For Khandam stones</td>
</tr>
<tr>
<td></td>
<td>60 X 15 X 15 cm</td>
<td>For cadastral survey above the ground</td>
<td>![Symbol]</td>
<td>For Minor Circuit(MC) fileds</td>
</tr>
<tr>
<td></td>
<td>60 X 15 X 15 cm</td>
<td>For cadastral survey above the ground</td>
<td>![Symbol]</td>
<td>For Govt. lands</td>
</tr>
<tr>
<td>‘C’ Class</td>
<td>1’ X 6” X 6”</td>
<td>For Town Survey 2” below the ground</td>
<td>![Symbol]</td>
<td>Used at chain Junctions</td>
</tr>
<tr>
<td>Class</td>
<td>Size</td>
<td>Use</td>
<td>Location</td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>--------------</td>
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<td>---------------------------</td>
<td></td>
</tr>
<tr>
<td>‘C’</td>
<td>1’ X 6” X 6”</td>
<td>For Town Survey 2” below the ground</td>
<td>Used at chain Junctions</td>
<td></td>
</tr>
<tr>
<td>‘D’</td>
<td>18“ X 8“ X 8“</td>
<td>For Town Survey 2” below the ground</td>
<td>Used at Thedolite Junctions</td>
<td></td>
</tr>
</tbody>
</table>
## Proposed Stones with Symbols for Towns Survey

<table>
<thead>
<tr>
<th>Where it is used</th>
<th>Type of stones</th>
<th>Stone size</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>CITY BOUNDARY</td>
<td>RCC CAIRNS</td>
<td>120X120X30</td>
<td><img src="C.png" alt="Symbol" /></td>
</tr>
<tr>
<td>WARD BOUNDARY</td>
<td>A CLASS STONE</td>
<td>90X22.5X22.5</td>
<td><img src="W.png" alt="Symbol" /></td>
</tr>
<tr>
<td>BLOCK BOUNDARY</td>
<td>B CLASS STONE</td>
<td>60X15X15</td>
<td><img src="B.png" alt="Symbol" /></td>
</tr>
<tr>
<td>CRDA. PROPERTY</td>
<td>B CLASS STONE</td>
<td>60X15X15</td>
<td><img src="C.png" alt="Symbol" /></td>
</tr>
<tr>
<td>PRIVATE PROPERTY</td>
<td>B CLASS STONE</td>
<td>60X15X15</td>
<td><img src="P.png" alt="Symbol" /></td>
</tr>
<tr>
<td>LOCAL BODY PROPERTY</td>
<td>B CLASS STONE</td>
<td>60X15X15</td>
<td><img src="S.png" alt="Symbol" /></td>
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</tbody>
</table>
MODERN SURVEY METHODOLOGY
IMPORTANT EVENTS IN CAPITAL CITY

- Important sections of AP CRDA Land Pooling Scheme ACT
- Capturing of 55 DGPS Control Points
- Preparation of Enjoyment Survey Record
- Jareebu lands Survey
Important sections of AP CRDA Land Pooling Scheme ACT

- 9.1- NOTIFICATION
- 9.2- OBJECTIONS
- 9.3- CONSENT
- 9.4- ORDERS ON 9.2
- 9.5- OWNERSHIP DETAILS
Capturing of 55 DGPS Control Points

- PRATHITECH COMPANY
- LEIKA INSTRUMENT
- 21 MONUMENTS
- 2.82 LAKHS
Preparation of Enjoyment Survey Record
1. Fmbs
2. Village maps
Jareebu lands Survey & photography

- Jareebu
  1. along river
  2. water table-50 feet
  3. 3 crops
  4. alluvial soils
  5. multiple crops

7011.14 ac

5883.42 ac-9.3 consent

17 villages

Geotagging - photography
9.2 Village site Maps

- Phase 1
- Phase 2
- Phase 3
- Phase 4
9.3 Village Maps

- Village site
- Extended habitation
- 9.3 consent
- 9.2 objection
- 9.14 agreement
DGPS

- 698 points
- Tri junctions-52
- Bi junctions-291
- Major bends-355
- Rv associates company
- Tremble Instrument
- Static method
- 20 min observation time
- pillaring
Singapore system of Survey

- Master plan
- 391 sq kms
- 1:30000 scale
- Satellite image
- Overlaying on cadastral map
- Geo referencing
- Base map
- 40 cm solution
- Spherical coordinates
- Planimetric coordinates
- Geodetic survey
- Planimetric survey
- CORS
- VRS
• 9.2 Village site Maps

• 9.3 Village Maps

• Village boundary Refixing by DGPS

• Singapore system of Survey
• DGPS Survey
• Drone Survey
• 9 Theme Cities in Capital City
• epartmAlienation of Lands to Government Dents
• LAND ACQUISITION
DGPS Survey

- DGPS COORDINATES-3 MODES
- UTM
- STATIC METHOD
- RTK MODE
- RASTER FORMAT
- VECTOR FORMAT
- RINAX DATA
- RMS
- OBSERVATION TIME
- BASE STATION
- ROVER
- KML
- KMZ
Drone Survey

- TREMBLE INSTRUMENT
- 10 CM RESOLUTION
- 80 PERCENTAGE OVER LAP
- PCP-50
- SCP-300
- 1 HR OBSERVATION TIME
- SATELLITE IMAGE-NRSA SUPPLY
- IMAGE & GCP RECTIFICATION
- 2M/2M MARKS
9 Theme Cities in Capital City

- TOURISM CITY
- HEALTH
- ELECTRONIC
- KNOWLEDGE
- JUSTICE
- SPORTS
- GOVERNMENT
- CULTURAL
- FINANCE
Alienation of Lands to Government / PVT ORGANISATIONS

- DGPS COORDINATES
- SURVEY NUMBERS CORRELATION
- ON GROUND DEMARCATION
- LA PART EXEMPTION
LAND ACQUISITION

- LA R&R ACT 2013
- 9.2 OBJECTION
- PRILIMINARY NOTIFICATION-11(1)-5376 AC
- DECLARATION NOTIFICATION -19(1)-5320 AC
• Lanka Lands Survey
• Fixation of ROW
• Plot allotment policy
• Various Survey Disputes
• ETS appeals by AD
Lanka Lands Survey

- 2800 AC
- 6 VILLAGES
- 15 LANKAS
- EROSION
- ACCREDITATION
- RIVER SHIFTING
Fixation of ROW

- PLOTS ALLOTMENT
- LAY OUTS
- PEGGING OF ROW
- PILLARING
- STAKING OF DGPS COORDINATES
Plot allotment policy

- FSI
- TDR
- 9.18 FORM A,B
- FAR
Various Survey Disputes

- OVER REGISTRATIONS
- OVER EXTENTS OF ROR RECORDS
- AREA DISCREPANCY
- AREA ERRATA
- ENCROCHMENTS
- PVT TRESPASSING
- DISTUBANCE OF RIDGES
ETS appeals by AD

- COMMITEE OF DIRECTOR (LANDS), AD (SURVEY) CA, TAHSILDAR
- AREA DISCREPANCY, SURVEY & SETTLEMENT DISPUTES
OTHER IMP TOPICS

- LINKAGE BETWEEN REVENUE & REGISTRATION DEPT
- RESURVEY
- COLLABLAND SOFTWARE
- SCANING OF RECORDS
- DIGITISATION OF RECORDS
- NLRMP
- BHOOMI PROJECT
- 398 G.O
- MEE BHOOMI
- LICENSE SURVEYORS SYSTEM
- ETS, GPS, DGPS MACHINES
YOU CAN WATCH MY Y T.V INTERVIEW ON SURVEY & LAND RECORDS ISSUES IN YOUTUBE (PLEASE TYPE CHVSN KUMAR)

YOU CAN VIEW MY SURVEY ARTICLES IN FACEBOOK (CHVSNKUMAR@FACEBOOK.COM)
Thank you