



SURVEY / RE-SURVEY EXPERIENCES IN ODISHA

Presented by :-

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LEGAL PROVISIONS FOR SURVEY USING MODERN TECHNOLOGY

- Government of Odisha has enacted the Odisha Special Survey and Settlement Act, 2012 & Rules, 2012 for Survey / Re-Survey using Modern Technology (Hi-Tech Survey).
- Published Technical Manual for Cadastral Survey Using Modern Technology in December, 2012
- Standard Operating Procedure was published descriptively steps by step approach for field functionaries.

THREE METHODS OF HI-TECH SURVEY

- Pure Ground method using ETS & DGPS.
- Hybrid method (Aerial Photography + Ground Truthing by ETS & DGPS).
- Hybrid method (High Resolution Satellite Imagery + Ground Truthing by ETS & DGPS).

SURVEY AND RE-SURVEY OPERATIONS SO FAR

Re-survey :-

- ✓ Hi-Tech Survey combined with Ground Truthing by DGPS & ETS is going on in the Districts of Sundargarh, Deogarh, Sambalpur, Bolangir and Subarnapur using Aerial Photography.

Survey of Un-surveyed areas :-

- ✓ Hi-Tech Survey in 266 Un-surveyed villages of Jagatsinghpur, Jajpur, Jharsuguda, Kalahandi, Kendrapara and Ganjam has been undertaken using High Resolution Satellite Imagery and Ground Truthing by DGPS and ETS.

PRE-SURVEY ACTIVITIES

Notification of villages to be covered under Hi-Tech survey operation by Revenue & DM Department



Planning and execution of awareness meetings at village level associating the vendor



Proclamation in Form No.1 by Tahasildar under Section-3 (2) of OSS&S Act, 2012



Soliciting self-declaration in Form-2 from the land owners Rule 6 (1) of OSS&S Rules, 2012 within 30 working days from the date of notification



Verification of self-declaration by Tahasildar/ Additional Tahasildar and preparation of verification certificate in Form-3

SURVEY PLANNING

- All Gharabari (Habitation) areas, obscured areas, inter-state boundaries, village boundaries difficult to interpret from ortho-images is put to DGPS/ETS survey.
- Vendor to submit its manpower and equipment resources to District Administration for appropriate planning
- Detailed Tahasil-wise survey schedule in Form No. 1(T) with approval of Collector for publication at District/ Tahasil and village level.
- Village wise survey schedule in Form No. 2(T) to be notified in the concerned village at least 10 days before commencement of survey.
- Involvement of local people and local officials of land owning Departments must be there.

PREPARATION OF PRELIMINARY ROR

Submission of map so prepared by the vendor to Tahasildar for verification indicating plot numbers of existing Map/RoR and a comparative statement of image derived parcel area with RoR




Constitution of team of persons by Sub-Collector for preparation of Preliminary RoR headed by a Revenue Supervisor



Preparation of abstract of RoR and plot register in Form-5 & 6




Re-verification of self-declarations with reference to above abstract and plot register and available records




Physical verification of all plots and noting of all changes in respect of configuration, area, boundaries and ownership



Sub-divided plots need to be marked in broken lines



Team of persons must ensure incorporation of all plots in existing RoR and those obtained from self declarations in the draft map so prepared



Vendor personnel shall assist the team of persons in demarcation of plots during the process



Digital updation of village map upto a cut-off date i.e. till publication of draft RoR by Tahasildar



Preparation of land owner wise preliminary RoR in Form-7



Generation of LPM of hal plots and serving of same to land owners and officers of other Departments with display for public scrutiny for 15 days



Soliciting claims and objections within 15 days in Form-8

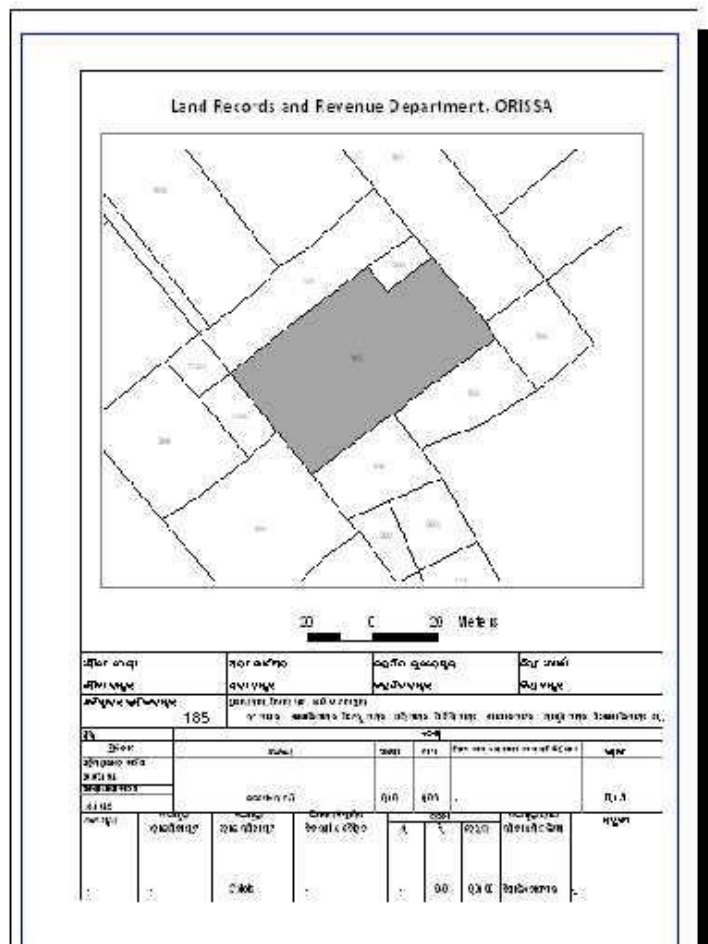


Disposal of all claims and objections by Tahasildar in a summary manner within a maximum period of 15 working days of receipt of the same (Rule-10)



The vendor surveyor shall assist the Tahasildar disposal of objection cases which for may parcel measurement require

A4 SIZE MAP GENERATION FOR TENANT INTERACTION



Language Oriya

୧୧୩

Khurda

ତତ୍ତ୍ୱବିଳ

Bhubaneswar

ଥାନା

Baonta

ବ୍ଲକ୍

Jond

ଖଣ୍ଡଗିରି ନମ୍ବର

85

Map

ପ୍ରିଣ୍ଟ

ରିଫ୍ରେସ

DRAFT RECORD OF RIGHTS

Draft RoR shall be prepared in Form-12 stating the orders passed in respect of claims and objections and shall be published for a period of 15 days (Rule-12)



Issuance of public notice in Form-13 inviting claims and objections within a period of 30 days



Disposal of claims and objections in a summary manner by Addl. Sub-Collector on the basis of available records, documentary evidence and spot verification if needed within 30 days of filing of such claims/objections

RECESS

Addition and alterations in the draft RoR per the orders passed by Addl. Sub-Collector



Addition and alterations in the draft RoR per the orders passed by Addl. Sub-Collector



Checking and verification of area of each plot and area and boundaries of each revenue village to ensure its correctness both in RoR and in maps.



Passing of new area by Tahasildar



Preparation of abstract of new RoR in Form-18 and new Plot Register in Form-19



Preparation of copies of RoR in quadruplicates for final publication

Final Record of Rights

Final RoR will be published in Form-20 under seal and signature of Collector and shall be placed for public inspection for 30 days



Both soft & hard copies shall be prepared by the vendor for distribution among land owner, RI, Tahasildar, Collector and DLR&S



Any person can file claim/objection against the entries of final RoR within 90 days of publication of final RoR before the ADM



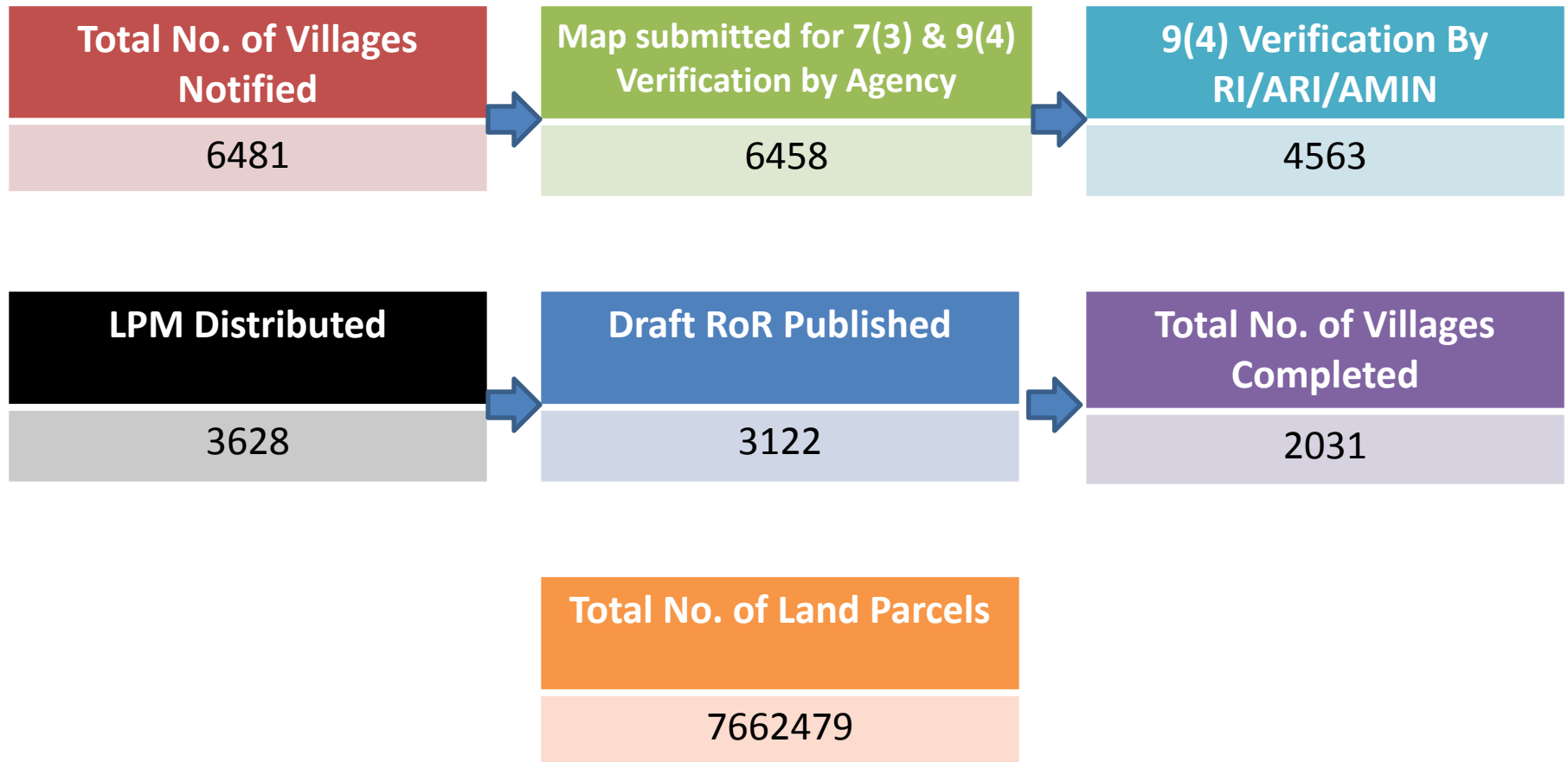
Disposal of claims and objections in a summary manner by ADM on the basis of available records, documentary evidence and spot verification if needed within 90 days of filing of such claims/objections

Quality Checking by ORSAC

- After Geo-referencing of existing cadastral maps with image for delineation of village boundary
- After plot vector generation and prior to Ground Truthing: geometry of parcels and village boundary
- Before submission of draft map to Tahasildar for verification after ground truthing
- Before submission of final RoR after Khanapuri operation, dispute resolution

SURVEY /RESURVEY PROGRESS

(05 Districts i.e. Deogarh, Sundargarh, Subarnapur and Sambalpur)



Observations from Hi-Tech Survey in Deogarh District

- ✓ Out of 760 Villages of Deogarh District, Record of Rights (RoR) have been published in 759 villages.
- ✓ After publication of RoR, one can file revision case before ADM of concerned district without approaching Member, Board of Revenue, Odisha as in Traditional Survey.
- ✓ Dedicated officers for survey like:- Assistant Settlement Officer (ASO) can perform better than concerned Tahasildar who is engaged in other multifarious work.
- ✓ Quality Checking (QC) in each stage by ORSAC and ground truthing by field functionaries are required before passing on to next stage.

ANALYSIS REPORT IN RESPECT OF DEOGARH DISTRICT

Extent of variation in plots	
No Variations for	59
Increase/decrease of plot below 1%	37
Increase/decrease of plot 1-3%	3
Increase/decrease of plot 3-5%	0
Increase of plot more than 5%	1
Decrease of plot more than 5%	0

Outcome Analysis of Village Talakudar of Deogarh District

SL NO	Holding	Total Extent of Sabik RoR (In Acre)	Total Extent as per Hi-Tech Survey (In Acre)	Difference
1	Rakhita	270.08	268.77	-1.31
2	Sarbasadharana	7.02	6.78	-0.24
3	Abadajogya Anabadi	393.67	398.74	5.07
4	Abadaajogya Anabadi	27.31	24.96	-2.35
5	Rayati	78.56	77.57	-0.99
	Total	776.64	776.82	0.18

