

which is a very important part of land consolidation. It acts as a re-allotment design of the plots. These grids will be numbered systematically in later stage and help in calculating land valuation of each land owner.

Based on the land value they shall be provided new lands of rectangular shape of equal value and a unique Killa numbers. The cadastral map which is prepared by dimensional digitization from the sajra gives us the details of land holders. Apart from that, it gives actual measurement as per ground reality. The area of a single land parcel can be easily calculated and can be cross checked with the values inscribed in field book. Missing values of a particular side of a land parcel can be recovered by tallying with the adjacent land parcel area. Thus giving a complete sajra of the village free of errors and missing values. This sajra is later on used in the field for verification from the land holders and registering the values permanently in government document or we may say the later processes of consolidation of land.

The Kaiami map acts purely as a scale to make the killa grids and murabba grids on ground. The actual ground distance of a permanent structure is matched and the junctions of the killa and murabba grids are demarked in the field.

5. Conclusion

Remote Sensing GIS helps in accurate land parcel location and also generation of missing data. The time consumed to do so is also very less. The sajra map which is composed becomes an electronic document and can be saved and preserved for future use. On the other hand Land consolidation helps in better land shape, better agricultural use of land, improve effectiveness of farming, through decrease in cost of transport and facilitate mechanization of farming. Land consolidation also increases land value by giving better road and housing system. Not only so Land consolidation helps in over all better land administration. Green Revolution or Harit Kranti in India was the result of land Consolidation. GIS Remote Sensing helps all this occur accurately and in a better planned manner. So the method was quite useful for the administrative level to carry on their work in a more methodological way.

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Author Profile



Monalisa Mitra received B.Sc and M.Sc degree in Geology with specialization in Hydrogeology, Remote Sensing GIS from Burdwan University, India in 2009. Joined as Project Assistant at Oceanography Department, Jadavpur University and worked there till December 2010, later joined West Bengal State Council of Science and Technology, Department of Science and Technology, Kolkata, Government of West Bengal as JRF. Presently working as Project Assistant at Haryana Space Application Center, India