Terms of Reference

Technical review and editing of manuscript and develop a policy paper on 20 year’s Land Use Change in Multan and Bahawalpur Districts for WWF-Pakistan’s GIS Laboratory

1. Background:

WWF-Pakistan’s GIS laboratory is currently working on the study titled: mapping of cotton landscape in Multan and Bahawalpur Districts, Punjab, Pakistan through field offices and stakeholders’ engagement. GIS laboratory is looking for a consultant for technical review and editing of research paper titled “Land Use mapping and change analysis (2000-2020) of cotton landscapes in Multan and Bahawalpur Districts using Remote Sensing Satellite data” and draft a policy paper based on the major outcomes of the study with major focus on social and environmental impacts of land use changes. Also elaborate the reasons behind the changes in Land Use within the landscape.

2. Objective

Technical review and editing of manuscript developed by GIS officials and development of policy paper with main focus on social and environmental impacts of land use changes.

3. Consultancy outputs

The consultant is required to develop text in line with the following:

- Review, editing and formatting of manuscript document for the content and flow at the standards required for a well reputed international Journal
- Draft a Policy paper of two pages maximum (to be shared in National level consultative workshop and major Policy makers like Secretaries and Organizational Heads)
- Use correct formatting and spacing

4. Duration & division of work:

- The consultancy will be undertaken for two months. Work will commence immediately after contract signing.
- This consultancy is home-based but would involve participation in meetings with the GIS technical team
- The consultancy fee will be paid a lump sum amount at the end of the consultancy
- Final selection will be made after presenting sample work based on the data given in Annexure 1

5. Qualifications:

- Excellent English writing skills
- Previous experience in editing technical research paper on GIS and remote sensing
- Experience in policy paper writing
- Previous experience working with WWF-Pakistan preferable

6. Deliverables:

- Technically reviewed, edited and formatted manuscript on well reputed international Journal’s Guidelines
• A Policy paper

The final documents should be both in word and pdf format

Annexure I

Land Use mapping and change analysis of Bahawalpur and Multan District will be conducted using the Remote Sensing imagery within the cloud based platform Google Earth Engine. The change analysis will be conducted for the twenty years starting from 2000 to 2020 with five years interval. The major land use land cover classes will be Forest, Orchards, Agriculture, Grassland, Water, Settlement and Other land. The results show that the settlement has changed from the 2000 ha in year 2000 to 5000 ha in year 2020 with an increasing rate of?? Percent. The increase in settlement is mainly on the agriculture area and forest area. The agriculture area in year 2000 was 9000 ha which is only 6000 ha in 2020. About an area of 1000 ha of agriculture has been changed into settlement. The study shows that there is a strict need of policy to counter the widespread building areas and make a proper ten or 20 years plan of development so that development in the coming years in sustainable and also covers the food needs of future generations by not sacrificing the area under agriculture for the settlement.