

Term of Reference

Name:
Job title: Remote sensing and GIS consultant
Client: REDD Implementation Center (REDD IC) Nepal
Project: Linking land use and forestry transition with depopulation in rural Nepal
Support: Windows of opportunities, Hariyoban project, WWF
Location: Kathmandu with one time field visit
Expected start date of the assignment: May 1 2016 Duration : one month part time
Reports to: Dr Mohan Poudel, assignment (research) coordinator, REDD IC
Contact: mohanprasadpoudel@gmail.com
<p>General description of the task (s)</p> <p>Under the overall supervision of the Research Coordinator and in close collaboration with the members of the technical team the consultant will be responsible for the following activities:</p> <ul style="list-style-type: none"> • Collect available time series spatial data such as high resolution satellite images, aerial photos and GIS maps of case study sites (Parbat and Lamjung districts) (2000-2005, 2010 and 2015) • Analyze the spatial data and develop land use maps for each year mentioned using GIS tools • Assess changes in land use pattern and produce land use change map with change matrix • Accuracy assessment of the new maps with field verification • Apply appropriate geo statistical tests on the identified changes • Produce report and submit to the Research Coordinator
<p>Requirements:</p> <ul style="list-style-type: none"> • Graduate degree in GIS, Forestry, environmental sciences or closely related field (Master Degree desirable) • At least 5 years of working experiences in Remote Sensing and GIS • Strong inter-personal and communication skills • Good in written English
<p>Key performance indicators</p> <p>Expected outputs</p> <ul style="list-style-type: none"> • Spatially explicit GIS based land use maps of the study sites with accuracy assessment • GIS Layers for different land use categories • Change maps with matrix • Synthesis report of the identified trend of forestry transition/land use change