THE WORLD BANK/IFC/M.I.G.A.
OFFICE MEMORANDUM

Position: Short Term Consultant: OpenDRI Technical Support
Location: Colombo, Sri Lanka
Grade Level: STC
Duration 40 Working Days (Signifcant Possibility for Extension)
Starting Date: October 15, 2012

Background/General Description
[Note]: This is a Short Term Consultancy through August 31st, 2012 for a total of 25 Working Days.

Through several World Bank and other international efforts in recent years, a variety of studies have been conducted to better understand Sri Lanka's vulnerability to natural hazards and the effects of climate change, as well as the status of its natural resources on which the majority of rural livelihoods and the economy rely. As part of these studies, important datasets related to vulnerability, impacts, climate change, disaster risk reduction and preparedness have been collected and created. All too often this data has not been widely distributed or made available to the Government of Sri Lanka or other important actors involved in building resilience in the country.

The World Bank is partnering with the Government of Sri Lanka to strengthen the capacity of its technical agencies to carry out Probabilistic Disaster Risk Assessments using CAPRA, a comprehensive risk assessment tool developed by the bank and several other partners in Central America. Several Technical Assistance Projects (TAPs) are planned to assess Flood, Tsunami and Cyclone risk in selected strategic locations of the country. The first TAP is already designed in collaboration with a number of key ministries and development partners. It is anticipated that a significant amount of spatial data will need to be collected or created over the course of these projects.

In partnership with the World Bank's Open Data for Resilience Initiative (OpenDRI), the Sri Lanka Disaster Management Center (DMC) and the United Nations Development Programme (UNDP) have decided to launch a number of online platforms to help ensure that the data created by a number of past or ongoing projects so that this information remains accessible and useful to the Government of Sri Lanka, key development partners, and the public.

The initial phase of this effort will take place between October 2012 and March, 2013. It will result in the creation of several web-based data sharing tools, managed by the staff of the DMC, UNDP, and key partners. This platform will be based on the free and open-source software, GeoNode, which is being used in a number of other OpenDRI projects in the region and around the world. http://geonode.org/

The activity will also provide support to relevant actors within government ministries and other partners on the use of OpenStreetMap for participatory data collection as well as the SAFE suite of decision-support tools (see http://innasafe.org).

The objective of this activity is to establish the platform and to provide the necessary technical support and training to DMC, UNDP, and partner institutions to carry the initiative through the first phase.

Duties and Accountabilities

Under the direct supervision of Suranga Kahandawa and Robert Soden, the incumbent will report to Rosanna Nitti. S/he will be responsible for the following activities:

- **OpenStreetMap Training:** Provide on-demand training and guidance on OSM data collection and usage for DRM purposes.
- **GeoNode Deployment Assistance:** Provide technical guidance and troubleshooting to DMC and UNDP teams at the initiation of the project.
- **GeoNode Training:** Conduct a series of formal trainings to DMC, UNDP, and other core partners of the Sri Lanka OpenDRI program.
- **Data collection, styling, and uploading:** Assist DMC and UNDP teams with initial population of GeoNodes as necessary, including upload of data and metadata, styling of individual layers, and the creation of basic suites of custom maps using the tool.
- **OpenDRI strategy:** Assist GFDRR country focal point in development of overall OpenDRI strategy for Sri Lanka, including coordination of working group meetings, taking and distribution of meeting notes, devising strategy for deployment of GeoNode, OSM, and SAFE tools, and liaising with OpenDRI focal points based in the GFDRR Secretariat.
- **Open Source Community:** Play an active role in contributing to and building the Sri Lanka and South Asia OpenDRI community; including organizing meetups, giving presentations, and participating in IRC and email lists.

Selection Criteria

- Experience working in international development, preferably in the region, on data-sharing, SDI, or GIS topics.
- Strong communications skills, ability to lead trainings and give effective presentations
- Understanding of major concepts and issues involved with disaster risk management and the conduct and use of risk assessments
- Experience using and contributing to OpenStreetMap and providing guidance to new mappers.
- Experience using and maintaining GeoNode platforms and leading GeoNode trainings
- At least two years of experience with web development (preferably Python/Django)
- Experience with geospatial programming preferably GeoServer/GeoTools, GeoNetwork, OpenLayers, and QGIS

- Experience with design and/or cartography desired
- Fluent in English