



# Norwegian People's Aid

**REF: ADVERT NO: 2020 -08-009-07 SSD**

## **NATURAL RESOURCE MAPPING**

### **Terms of Reference (TOR) for Natural Resource Mapping Exercise**

Position:	Natural Resource Mapping Consultant
Responsible To:	Rural Development Program Manager (Operational)
	Project Coordinator- G.I.S (Technical)
Location:	Yirol East and Yirol west, Lakes State (South Sudan)
Project:	Partnership for Building Resilience and Enhancing Livelihoods (BREL) of Conflict Affected Households in South Sudan
Provisional Time Frame:	8 weeks- Including Weekends for data collection and the final Approve Report
Tentative Start Dates:	1 <sup>st</sup> Sept to 15 Nov 2020

#### **INTRODUCTION:**

Norwegian People's Aid (NPA) South Sudan is an International Non-Governmental Organization involved in humanitarian, relief and long-term development cooperation in South Sudan. NPA has worked in South Sudan since 1986 and currently runs three programmers: Civil Society Development, Rural Development, and Emergency Response. The NPA Rural Development Program have received funding from the NORAD Regional fund for its Partnership for Building Resilience and Enhancing Livelihoods (BREL). The BREL project has been desired to improve the resilience of the target households to shocks (economic, natural and conflict related) and contribute to livelihoods through improved household's production and increased/diversified income sources. The overarching focus of the initiative is *to implement of of series of interventions that promote household/community food security, build the resilience and livelihoods of conflict affected households in South Sudan*. This will be done firstly by strengthening the capacity of smallholder farmers, groups and associations and local actors to provide an enabling enviroment for target households engage in improved and more sustainable climate agriculture hence contributing to improved household production and productivity. Implementation, monitoring and evaluation of the initiative will be done in collaboration with local government authorities, local civil society organizations, Nation Non-Governmental Organization (NNGOs), pastoralists/agro-pastoralists, Community Based Organisations (CBOs), fisher-folk's households, Community Animal Health Workers (CAHWs), farmer producer groups, farmer association groups/cooperatives, village and market committees and value chain actors. The BREL project will therefore seek to build on the previous work that NPA has conducted in the target locations through previous lines of funding provided through the NORAD Regional Funds and the Cooperative Agreement respectively.

**DESCRIPTION OF THE PROJECT:**

The overall objective of Partnership for Building Resilience and Enhancing Livelihoods (BREL) for conflict affected households in South Sudan.

The Natural resources mapping fall under Outcome 2 Improved Conflict mitigation, Natural Resource Management capabilities and resilience. To help in mapping the natural resources in the two Counties of Yirol East and Yirol west.

***Outcome 2: Improved Conflict mitigation, Natural Resource Management capabilities and resilience***

The project will aim to enhance the capacity of local government, community structures and traditional leaders to monitor and mitigate conflict along key fault lines. The project will work on building the capacity of peace committees and traditional leadership structures to act as agents of “peace” in the target areas. The action will create platforms through the peace conferences for community members to discuss and come up with solutions that generate peace and mitigate conflict. The proposed project will facilitate the formation of natural resources management committees (with representation by both men and women) for management of natural resources, conflict mitigation and risk management at community level and lead to local planning processes. Furthermore, the initiative will build the capacity of communities and their institutions, including women’s groups to identify risks and hazards as the basis for developing natural resource management plans at the community level. The project will seek to secure women and men’s access rights to land and other resources by enabling the community to actively participate in the making of policies and decisions affecting their livelihood. The initiative will also enhance the capacity of primary stakeholders to access and improve the existing land and resource use systems and develop new ones (if necessary) for community-based resource management with a focus on sustainability and empowerment of the poor, women and other vulnerable groups. NPA will utilize approaches that seek to change harmful social norms and realize behaviour change at the individual, household, community and institutional level. This will include advocacy for the rights of women and youth as well as their social and economic empowerment in community and local government leadership positions. Traditional power holders, particularly male community leaders; influencers and youth, will be engaged in such behaviour change approaches, leading to more positive masculinities, while upholding the rights of and reducing violence against women and girls. This will involve enhancing social cohesion by creating communal spaces for community members to discuss key issues, and providing trainings and awareness raising on conflict mitigation and dialogue. Finally, the project will carry out needs assessment on community conflict resolution structures and undertake capacity building in order for community to collectively and effectively participate in and influence policy decisions. The project will support the empowerment of women and youth as agents of positive change so they may be fully represented in recovery, peacebuilding and development processes.

**PURPOSE OF THE CONSULTANCY:****Overall objectives:**

The broad objective of the Natural Resources Mapping exercise is to map all the Natural resources in the two Counties of Yirol East and Yirol West Counties and produce a County Resource Map,

**Specifically, the objectives of the Exercise:**

- To map out the existing natural resources that are available to the communities by producing natural resource maps and share file or data set for natural resources in the target locations
- To map out, document and analyse the root causes of land and natural resource-based conflicts among communities of Yirol West and Yirol East Counties of Lakes state
- To analyse how land and natural resources are owned or used in the target locations
- To identify the strengths or weaknesses in the formal and traditional institutions in the management and resolution of land and natural resource-based conflicts
- To provide recommendations on how to mitigate or resolve land and natural resource based conflicts.
- To produce a Natural Resources Maps
- To produce a Shape file or dataset file for Natural resources for Yirol East and west

**METHODOLOGY:**

The desired methodology for conducting this survey is participatory approach involving stakeholders (Local Authorities, State officials, county CAD officials) during the process of data collection. The consultant will however provide leadership and bear responsibility for the process, the findings, the comments and the content of the final document and the map of the resources. The methods of data sources should be based on use of GPS data collection tool and electronic data collection interviews and qualitative data collection techniques involving key informant interviews (KII), focus group discussion (FGD) and literature reviews for secondary data. The design and implementation of the survey must also ensure that principles of gender equality, inclusion and non-discrimination are considered and acted upon throughout, and that the meaningful participation of the most vulnerable groups and other key stakeholders is promoted in the design and implementation of the study.

**PROCEDURES AND TECHNIQUES FOR DATA COLLECTIONS**

This part of data gathering will involve both qualitative and quantitative techniques and the use of GPS device in mapping the resources

**(1) Quantitative Data****Administration of household questionnaires:**

A household questionnaire will be the major tool in generating quantitative Natural resource maps questionnaire which will be administered in natural resources mapping exercise, type of conflicts over what resources; coping mechanism and conflict resolution; division of labour and decision-making chain etc.

**(2) Qualitative Data*****Consultative meetings (PRA methodology approach)***

In order to have an overall synthesized perception and views of the larger community living within the study area as well as authenticating the data from the sample households, community consultative meetings will be held at Boma level. Consultative meetings will be conducted at the same time when participatory resource mapping is taking place, since the two activities will be complimentary. Appropriate introduction will be done at the start of the community meetings about the aim of the study and build confidence between the community and the study team to dispel misplaced expectations. During the introduction phase, particular effort shall be made to identify and incorporate perceptions of the “voiceless” and usually “invisible” members of the community, especially women and youth.

***Key Informants interviews***

The consultant will hold interviews with key informants who are well verse with the Natural resources of the area and cultural profile conditions of the study area. These will be useful in authenticating the data collected for that Geographic area and filling up any gaps that may come from the households' survey. Among issues to be included are:

- (a) Overall status and stage of implementation of BREL Project
- (b) Traditional land use practices and management vis a vis government institution
- (c) Institutional and management arrangement in place,
- (d) Gender consideration in natural resource management,
- (e) Legal/ policy implications

### **SCOPE OF WORK.**

The scope of the natural Resources mapping is limited to collecting primary data which may also include reference to very credible secondary data sources relevant to the study objectives within the target County. To accomplish the scope of work, the consultant will perform the following duties:

- Submit Natural Resources mapping inception report to Rural Development Program Manager/his designate.
- Holding consultative meeting with staff and management of NPA in Juba, BREL staffs at field level and other key stakeholders including relevant government offices within the target location.
- Hold preparatory planning meetings with key stakeholders and hold training workshop on the data collection enumerators
- Meeting with the Community to identify most of the County natural resources
- Holding Focus group discussions, use of Natural resources questionnaires with project direct beneficiaries and stakeholders (Local leaders, government officers etc).

### **DELIVERABLES: (Maps for the natural Resources)**

- Two (2) different Natural resources maps for each County (Yirol East and one for Yirol West), One (1) map for Natural Resources distribution, and the other one for land cover classification clearing showing the natural resources distribution and Land use classification.
- The Data Set and the shape file for building the maps
- Printed Maps and soft Copy in PDF

### **Other key deliverables include:**

- Raw data set collected during the survey presented in the form of excel or SPSS for possible future use.
- Validation workshop with NPA staffs including key stakeholders from relevant government departments.
- A formal presentation of the key findings at NPA Field office or in Juba
- Submission of first draft Maps to NPA for comments

### **REPORTING:**

The consultant will be required to report on regular basis to the Rural Development Program Manager or his designate and or to the NPA M&E Coordinator, GIS/ Partnership Coordinator and to project Coordinator on the progress of the survey, which will have the overall responsibility of the survey.

### **RESPONSIBILITIES OF THE CONSULTANT:**

The consultant is required to perform the following tasks:

- Having ArcGIS software for mapping of the Natural resources

- Recruitment of Survey Enumerators: (M&E Coordinator and the project team leader will provide additional support on this during the survey exercise)
- Installs the questionnaires into the tablet/ smart phones
- Prepare the sample of the survey: (this will be reviewed and approved by the NPA M&E Coordinator)
- Conduct survey enumerators training for participants: (consultant to provide relevant training materials/ handouts)
- Training on use of Mobile Data Collection tools (Tablets/ smartphones), survey questionnaires and methodology
- Coordination and supervision of data collection in target location
- Checks for data quality conducted throughout the data collection period, data entry and final data cleaning
- Completed data collection for target locations produced
- Conduct data analysis and draft report write up
- Produce the finalized Natural Resources Maps

### **RESPONSIBILITIES OF THE NORWEGIAN'S PEOPLES AIDS- NPA**

The Norwegian's Peoples Aid will be responsible to;

- Provide payment and cover other necessary cost with the survey enumerators.
- Provide/ assigned staffs (M&E Coordinator and the project Team Leader in the field) for coordination on planning of the survey
- Provide vehicles to facilitates the data collection processes
- Provide flights/ transport to and from field location
- Provide population data for sampling for the target location
- Provide review to questionnaires (installed into the tablet/ smart phones)
- Provide survey enumerators training materials (flip chart, note books, marker pens, projector and training space)
- Provide relevant security briefings and organize relevant travel permits if required.
- Provide Smart Phone and power banks for data collection

### **CONDITIONS OF WORK:**

- During the period of this job, the consultant will be based in NPA Field office or Accommodated in Hotel by NPA with frequent travel to field locations for data collection supervisions and monitoring. He will be asked to overnight in the far counties of the target project sites under NPA cost if in hotel and or in NPA guest house.
- The consultant will be required to abide by NPA security procedures and other relevant policies, e.g. Code of Conduct, Conflicts of Interest, which are outlined in the contract for this Job.
- All raw data collected and reports generated will remain the property of the Norwegian Peoples Aid- NPA and the consultant will have no any rights of ownership after the end of the survey.

### **TIME FRAME:**

- This assignment will last approximately for 45 days starting from 15<sup>th</sup> September – 30<sup>th</sup> October 2020
- The timeframe assumes data collection with electronic handsets, and as such does not include time for data entry.
- For applicants intending to propose data collection using paper questionnaires please indicate this clearly in the proposal document.
- The overall work should be completed in not more than 45 days including the final approved report for the baseline.
- The consultant is expected to accomplish the task in the period provided below;

#### **a) Task 1: Field (Work Data collection) \_ 4 Weeks**

The Consultant is expected to accomplish data collection in all the target payam within Yirol East and Yirol West Counties. The target payam will be provided based on accessibility and present state of security situation.

**b) Task 2: Data Coding and Analysis\_ 1 Week**

The consultant is expected to accomplish data cleaning and data set development, land classification and map development for all the required maps

**c) Task 3: Reporting\_ 1 Week**

Upon successful completion of data cleaning and analysis, the consultant is expected to complete the 04 maps within one-week time. And shared with program manager, reviewed and comments worked on, then final Approved report is submitted.

**REQUIRED QUALIFICATIONS AND EXPERIENCE FOR THE CONSULTANT:**

**REQUIRED:**

The successful candidate should:

- Degree in GIS or a related discipline (Geography, Natural Resource Management, Land Use Planning, Environmental Engineering, Environmental Sciences). Advanced degree is an added advantage.
- 2 years of experience in GIS / Database management, preferably in humanitarian context;
- Previous experience with mobile data collection (ODK, ONA, KOBO);
- Experience in Mapping using GIS and GPS Tools install in Smart Phone
- Should have experience in developing dataset for the map produced, creating geocoded/geo referenced GIS data, producing natural resource maps and compiling spatial data on community based natural resources.
- Must has experience in natural resources mapping using GIS related ArcGIS Tools
- Excellent team management skills;
- Ability to operate in a cross-cultural environment requiring flexibility;
- Familiarity with the aid system, and understanding of donor and governmental requirements;
- Prior knowledge of the region an asset;
- Ability to operate Microsoft Word, Excel and Project Management Software.

**DESIRED:**

- Previous experience in South Sudan with similar job is added advantage

**All applicants should include the following:**

- Technical proposal: The technical proposal should include;
  - Brief explanation about the lead and associate consultants with particular emphasis on previous experience in this kind of work
  - Understanding of TOR and the task to be accomplished
  - Proposed methodology
  - Draft work/implementation plan
- A written submission on understanding of TOR, methodology / approach the consultant will use; time and time-bound activity schedule, financial issues (budget, number of people he/she will hire, costs per activity line – people, logistics etc.)

- Organizational (if it is a company applying) or personal capacity statement (if it is an individual that will hire data collectors)
- Resume and 3 references

**The evaluation criteria are based on technical and financial criteria:**

- Relevant knowledge in resource mapping exercise
- Known reliability in delivery of timely and quality services
- Relevant field/ country experience
- Relevant sector specific technical experience & qualifications
- Relevant monitoring and evaluation experience
- Cost/ budget

**SUBMISSION**

Interested applicants should submit application by email to [rss-tenders@npaid.org](mailto:rss-tenders@npaid.org)

Or hand delivery to the NPA South Sudan Head Office, Martyrs Street (opposite UNICEF) Juba, or to NPA Yirol Field Offices.

**Applications submitted after 5:00PM on Thursday 20<sup>th</sup> August, 2020, will not be considered.**

*Note: For the purpose of urgency, applicant will be reviewed on daily basis and NPA reserves the right to terminate this advert before the stated deadline.*

*Due to travel restrictions linked to the COVID-19 pandemic, preference will be given to consultants who are in country and can start the assignment as soon as is possible.*