



## NILE BASIN DISCOURSE FORUM IN RWANDA-NBDF

Opposite Amahoro National Stadium, Kimironko Road, Remera

B.P. 7216 Kigali ; Tél. : (250)0782792690/ 0788307662

E-mail : [coordinator@nbdfrwanda.org](mailto:coordinator@nbdfrwanda.org) website: [www.nbdfrwanda.org](http://www.nbdfrwanda.org)

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### CALL FOR SUPPLIERS AND SERVICE PROVIDERS

The Nile Basin Discourse (NBD) is a regional network of networks of civil society organizations established in 2003 to strengthen civil society participation in Nile Basin developmental processes and programs. As a network of networks, NBD is composed of over 600 member organizations operating throughout the Basin, according to the NBD Stakeholder Mapping report (2015). NBD's direct member organizations are National Discourse Forums (NDFs) such as **Nile Basin Discourse Forum in Rwanda (NBDF)** which are themselves networks of local (grassroots CBOs) and national NGOs/CSOs working on a range of issues relevant to Nile cooperation, including environmental conservation, agricultural production and markets, gender equity, livelihoods, poverty reduction, resilience to climate change and others. It envisions "A Nile Basin in which there is sustainable social and economic development for all people of the Nile Basin, free of conflict, leading to achievement of justice, human rights, good governance, poverty eradication, resilience to impacts of climate variation and protection of the environment." Its mission is "to ensure that a fully informed and basin-wide civil society develops and plays a key role in achieving the vision, through pro-active and critical influencing of projects, programs and policies of the Nile Basin Initiative and other development processes."

In order to create an effective interface between local/national and regional perspectives, the organization has identified three critical roles to play for the network: (i) a bottom-up communications pipeline for raising the voices of citizens and civil society up to the governmental and regional levels; (ii) a top-down pipeline for educating and informing citizens and civil society on Nile issues and development projects, etc.; and, (iii) a horizontal pipeline between citizens and civil society organizations both within and across national borders for knowledge and capacity sharing. These roles have been built into a five year strategy (2013-2017); they are also accepted by the riparian governments, donors and partners as NBD's niche and value addition to nurturing cooperation in the Nile Basin.

#### Purpose

Since 2016, through a consortium of three organizations which include the **Nile Basin Discourse Forum in Rwanda (NBDF)**, **Rwanda Environment Conservation Organization (RECOR)** and the **Swedish Hydrological and Meteorological Institute (SMHI)** have developed a project titled "Promoting Sustainable Agriculture in a Changing Climate in Bugesera District."



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The project will address "Green growth for sustainable livelihoods" through increasing fruit tree cover using green and low carbon technologies, inspiring small-scale farmers to promote a market oriented climate resilient agriculture.

The overall objective of this proposal is to empower small-scale farmers with skills of green technologies in climate resilient agriculture for sustainable livelihoods.

The project starts in May, 2017 to September, 2019, where the two organizations mentioned above intend to, with funding from the Nordic Climate Facility (NCF) implement the mentioned project. This project shall be managed in consortium with the **Swedish Meteorological and Hydrological Institute** as lead while the two local organizations shall be the local implementing partners in eight (8) sectors which include Juru, Mareba, Kamabuye, Rilima, Ruhuha, Nyarugenge, Rweru and Ngeruka of Bugesera District. The said project will span for a period of 30 start-up funded months but shall continue after then with joint effort of the implementing organizations and community groups with guidance and advisory of the District authorities. The project has also a carbon sequestration aspect where emissions reduction shall start at 4 years to 25 years of age, where, amount of carbon reduced from atmosphere shall be monitored to attract further carbon credits.

It is through this effort that the 6<sup>th</sup> Nordic Climate Facility has agreed to fund the above mentioned project; <https://ndf.fi/project/ncf-promoting-sustainable-agriculture-changing-climate-bugesera-district>. NBDF Rwanda shall be in charge of project activities in Juru, Rilima, Rweru and Kamabuye, Sectors where the following equipment and services shall be required as indicated in lots 1 & 2:



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## Lot 1: Supply, Installation and Maintenance of Solar Irrigation System for Fruit trees;

Technical aspects required for the equipment under this lot shall be of ability to irrigate grafted mango, orange, pawpaw, tree tomato and avocado trees. The size of land to be irrigated per each system in each of the sites in every single sector is between 1 to 2 Ha of land. This should be able to support nursery beds and seedlings to maturity where minimum period of operation should be 5 years. The system should be able to operate between 2-4 hours daily. The pumping system is crucial for drought or dry season. Better recommendations as per experts' experience are also added value. Also, all sites are between 50 to 100 meters from water sources. Site visits would be highly recommended for bidders.

The installation shall be done in Juru, Rilima, Rweru and Kamabuye Sectors of Bugesera District.

i. Installing three (3) solar irrigation systems that as indicated below:

SR No	Description	Technical Details
<b>A</b>	<b>Submersible Pump Set</b>	<b>Model- RW005030</b>
1	Specification	6,000 Lit/day at Total Head 30 mtr.
2	Connection size	40 NB
3	Power	0.37KW/0.5HP, 60VDC
4	Water Source	Lake
5	Total Farm to lake distance	100 mtrs
6	Water for per Hectare tree	Max.5200 lit per day
<b>B</b>	<b>Solar Panel</b>	500 W (250wp x 2Nos)
Mutlicrystalline panel with inter connecting cables		
<b>C</b>	<b>Controller Specification</b>	Fully enclosed IP 54 protection
DC pump controller with MPPT		
Dry run protection, Current Overload & thermal overload protection		
<b>D</b>		<b>Panel Mounting structure</b>
1.5Mtr height Single pole structure		
<b>E</b>		<b>Accessories</b>
1	HDPE pipe with fittings	suction Pipe 40NB x 110 mtr long with hose nipple
2	Power Cables	2.5 Sq. Mm x 3 Core



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ii. Installing one (1) solar irrigation system that has the following details:

SR No	Description	Technical Details
<b>A</b>	<b>Submersible Pump Set</b>	<b>Model- RW010H050</b>
1	Specification	12,000 Lit/day at Total Head 50 mtr.
2	Connection size	32 NB
3	Power	0.75KW/1 HP, 110VDC
4	Water Source	Lake/Swamp
5	Total Farm to lake distance	100 mtrs
6	Water for per Hectare tree	Max.5200 lit per day
<b>B</b>	<b>Solar Panel</b>	900 W (300wp x 3Nos)
Mutlicrystalline panel with inter connecting cables		
<b>C</b>	<b>Controller Specification</b>	Fully enclosed IP 54 protection
DC pump controller with MPPT		
Dry run protection, Current Overload & thermal overload protection		
<b>D</b>		<b>Panel Mounting structure</b>
1.5Mtr height Single pole		
<b>E</b>		<b>Accessories</b>
1	HDPE pipe with fittings	suction Pipe 32NB x 110 mtr long with hose nipple
2	Power Cables	2.5 Sq. Mm x 3 Core

Additional Tasks and responsibilities:

- Determine the quantity, quality and voltage of the solar equipments to be used at each site if different from above; but should not below the limits stated above already.
- Supervise installation of solar systems
- Train local technicians at each sites
- Give hints of solar energy function to beneficiaries to enable them minor maintenance
- Give minimum warranty of 5 years after installation



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### Lot 2: Development of nursery bed sites that will produce 100,000 improved fruit tree seedlings by grafting.

Seedling production is one of the key steps in domestication of any species, where each step has to be properly planned and implemented. The way seedlings are handled and managed in a nursery determines their survival after planting. Improving seedling quality means they will give superior survival, growth and productivity. Seedling quality is governed by the genetic make-up of the parent trees, and the physical growth of the seedlings. At present the need to plant trees on farms is on the increase. It is difficult, however, for smallholders to access – at the right time, in the right quantities and of high quality – the trees that they want to plant. In order to meet present and future demand for planting materials, there is a need to promote on-farm and community tree nurseries. The sites will be located in Juru, Rilima, Rweru and Kamabuye Sectors of Bugesera District.

The “Promoting Sustainable Agriculture in a Changing Climate in Bugesera District” shall require production of not less than 100,000 grafted seedlings which will be planted in 4 sectors mentioned above. Below is distribution of seedlings per sector per type of fruit plant:

S.No	Plant tree	Number of Sectors	Unit Quantity/Sector	Total Trees/Sector	Recommended Varieties/Species
1.	Mangoes	4	6000	24,000	Apple Mango/Tommy
2.	Guavas	4	500	2000	
3.	Avocado	4	7,500	30,000	Hass/ Fuerpe
4.	Tree tomatoes	4	1500	6000	Local variety; Insongo
5.	Pawpaw	4	10,000	40,000	

The detailed activities and responsibilities for the above action include:

1. Selection of recommendable seeds compatible to the projects sites as indicated above (easily grafted)
2. Ability to carry out progressive on-field training sessions with 200 community beneficiaries during the execution period.
3. Experience in highly resistant varieties and species for Bugesera area
4. Choice of highly yielding and marketable fruits trees



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5. Choice of accessible varieties and species
6. Experience in Integrated Pest Control Management for fruit treesCapacity to make and produce compost manure sites using local materials
7. Experience in producing grafted fruit trees
8. Experience establishment of sustainable nursery bed structures
9. Knowledge of using irrigation systems
10. Should provide certificate of origin of goods and operational manuals
11. The provider should account for seed losses; minimum expected seedlings are indicated in the table above
12. Interested suppliers should submit well printed quotations and technical documents.

### Terms:

1. Award of tender shall be based on best quotations and technical advantage;
2. Payment 50% upon signing contract, 25% upon completion and 25% after supervised approval by an expert in a period of 3 months after commissioning;
3. Delivery and installation should be 14 days from signing of contract;
4. Guarantee and maintenance should be minimum 5 years for solar systems;
5. Insurance policy on equipment;
6. Training of capable beneficiaries and locals on use and caution of equipment;
7. Added value for bidder who can take-on both lots 1 & 2;
8. Ability to work under crash program in the interest of limited time;
9. Deadline for submission of quotations and technical specifications is 25<sup>th</sup> July 2017 at 15:00hrs at NBDF Rwanda offices located opposite Kigali Metropolitan Headquarters near Amahoro National Stadium;
10. Successful bidders shall be sent notification letters on 31<sup>st</sup> July 2017.;
11. Bidders are encouraged to read the project document for ease of understanding the project concept;
12. Etc

Eligible consultants or bidders should fulfill the following:

- Have a registered company or have a tin number;
- Have proven experience in the sector;
- Able to reside temporarily in the above said sector for holding progressive training session for beneficiaries;



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- Be able to make professional judgement and recommendation on sustainable products for solar and nursery beds;
- Have good knowledge of Bugesera coverage and climate status;
- Have background in innovative agricultural systems and climate smart practices;
- Must be Rwanda;
- Submit well printed quotations and technical specification with certificates of origin and quality assurance;
- Proof of innovation of products;
- etc

A selection of the partner will be based on the above mentioned requirements and will be subject to review by technical evaluation team of the NBDF Rwanda Steering Committee.

A contract shall be established between the parties and be governed by the Rwandan Law.

N.B. For any important information contact number +250788307662/ +250782792690 or email: [coordinator@nbdfrwanda.org](mailto:coordinator@nbdfrwanda.org)

Done at Kigali, 26<sup>th</sup> June 2017

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