

# Fruits & Nuts Tree Plantation Project

*..... Creating resilient agriculture & economic development after COVID-19 through sustainable farming model*

Presenter

**Shree Krishna Dhital**

International Service committee Chair - Rotary Club of Kathmandu Height RID 3292

Director- Sanskriti Farms & Research Centre

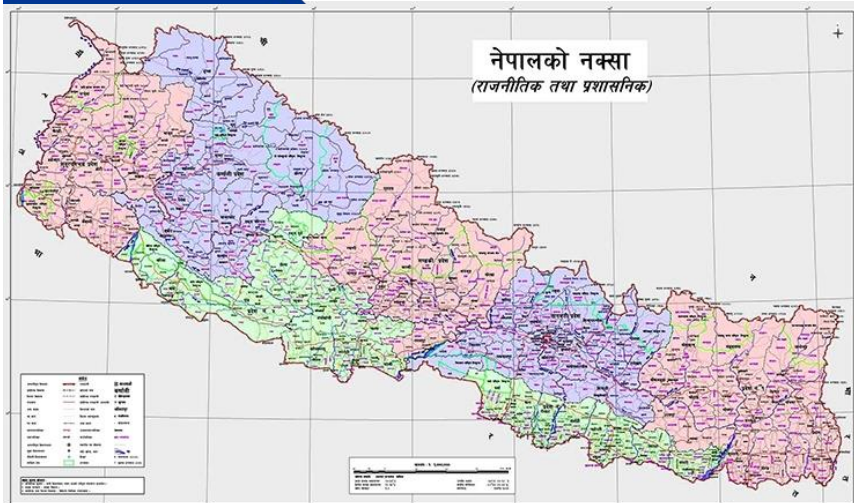
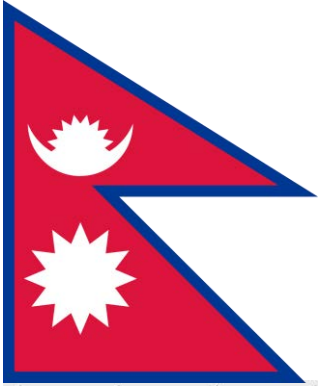


Rotary Opens  
Opportunities

**Stay Home and Stay Safe from COVID-19**

**31 August 2020**

# Welcome to Nepal - Introduction



## Federal Democratic Republic of Nepal

- Language: Nepali
- Capital: Kathmandu
- Major occupation: Agriculture
- Area: (56,956 sq. mi)
- Population: 28 millions (2018), 466.2/sq. mi) [World Bank](#)
- President: Hon. Bidhya Devi Bhandari
- Prime Minister: Hon. K.P Sharma Oli

# About me

**Shree Krishna Dhital**

(PHF in 2018)

Phoolbari, Nepal

I have a small and beautiful family.

***Dad- Rajan, Mom-Rajkumari Wife: Rupa Daughter:  
Sanskriti and Son: Sanskar***

***I did my Master`s in Mechanical Engineering from  
Kathmandu University and now studying Law at  
Tribhuvan University.***



# Agriculture in our context

- Agriculture makes up 68% of the livelihood of Nepal's population & contributes to 34% of the total GDP.
- More than 50% population in Namobuddha Municipality including Phoolbari directly depend on agriculture while more than 20% people are either abroad or living in another town for work.



# Problem

- More than 70% land is a hilly slope ( $15^{\circ}$ - $45^{\circ}$  slope)
- Traditional or subsistence farming is currently limited to maize and wheat, they are uneconomical, unprofitable and require high labour to grow and harvest.
- Currently, youth and men are required to leave the village to find work in the city or abroad in order to support and feed their families.
- Pesticide and GMO based farming practices are being heavily promoted throughout Nepal. This contributes to a loss of culture and is detrimental to the health of our people.



*Due to the COVID19 pandemic many people are returning to the villages, including those who have been working and training abroad. What can we do next to support them?*





# Objectives

*This project integrates solutions to socio-economic and environmental challenges facing rural Nepali communities.*

Fruits and Nuts are easy to grow and require less water.





- Engaging youths in fruit and nut tree farming as well as increasing organic vegetable production for improved food security and income generation after this **COVID19 Pandemic**;
- Diversifying diets (improving nutrition) in the local community and contributing to public health (**especially the health of mothers and children**)
- Strengthening the natural environment by planting fruit trees that do not require pesticides and that will prevent soil erosion and desertification;

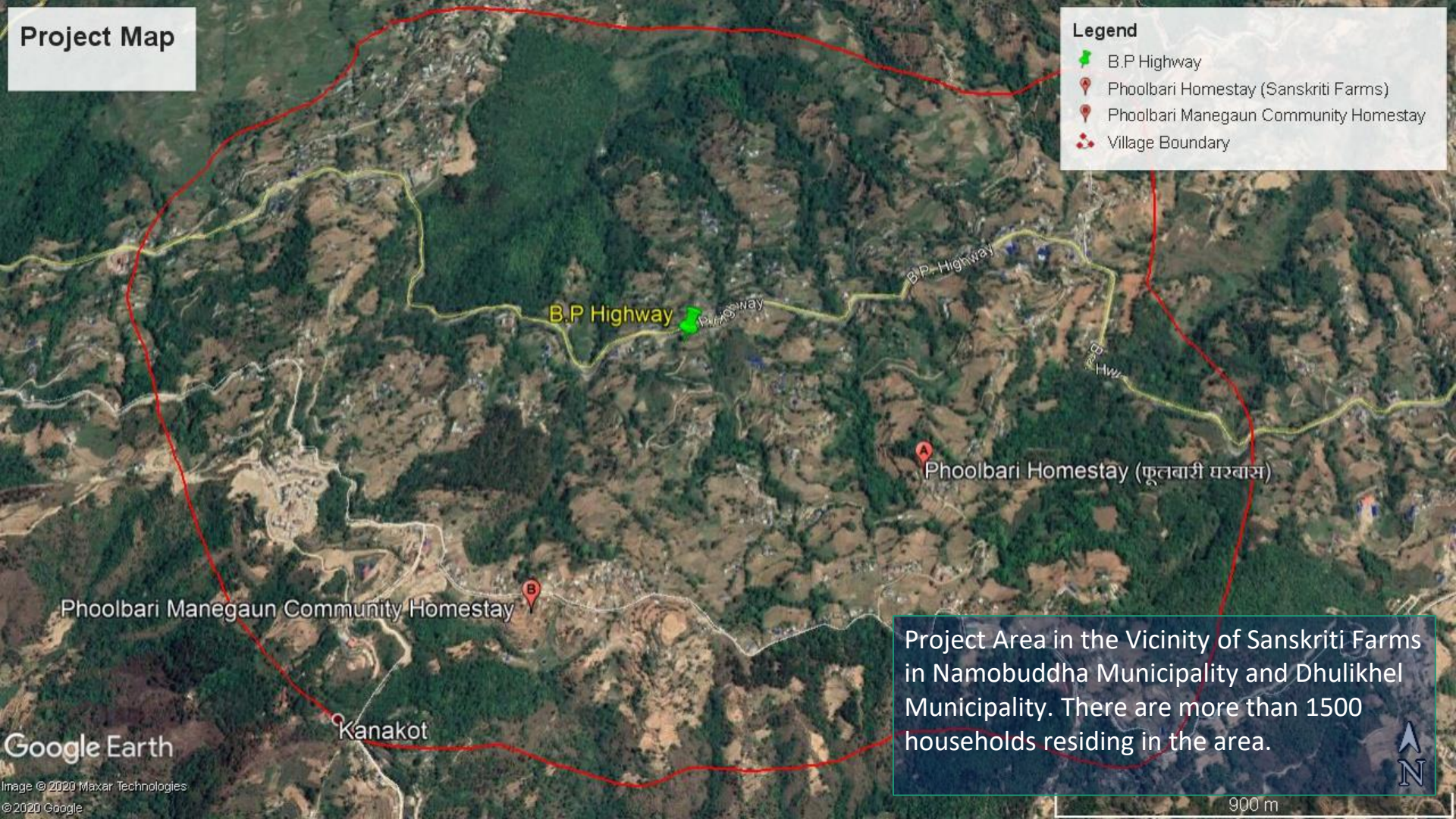




## Project Map

### Legend

-  B.P Highway
-  Phoolbari Homestay (Sanskriti Farms)
-  Phoolbari Manegaun Community Homestay
-  Village Boundary



B.P Highway

B.P Highway

B.P Highway

Phoolbari Homestay (फूलबारी घरवास)

Phoolbari Manegaun Community Homestay

Kanakot

Project Area in the Vicinity of Sanskriti Farms in Namobuddha Municipality and Dhulikhel Municipality. There are more than 1500 households residing in the area.

Google Earth

Image © 2020 Maxar Technologies  
© 2020 Google

900 m





# Why Sanskriti farms?

Over the past 10 years, I myself have been involved in many projects through Rotary which have created solutions for challenges with water, farming, and renewable energies, particularly focusing on “**United Nations Sustainable Development goals 1-No Poverty; 11-Sustainable Cities / Communities and 15-Life on the Land and Rotary`s 7 areas of focus (Water Sanitation & Hygiene, Community Economic Development and Maternal & Child health)**”

We have a group of passionate and enthusiastic young professionals who are leaders in their community and want to create “**Model of Success**” through agricultural interventions and environmental initiatives. **Sanskriti Farm and Educational Resource Centre** is a *bridging institution* created to link up local farming communities with academia, institutions like **Rotary clubs**, Universities, hospitals to achieve their prospective goal to make their farming profitable and sustainable.



# SANSKRITI FARMS & RESEARCH CENTRE

Dhulikhel-11, Kavre, Nepal

## What do we do?

- Academic research activities
- Demonstration of various sustainable technologies
- Nursery for grafted and seed grown trees
- Native herb collection and local seed bank
- Hands on training on several sustainable agricultural practices
- Business incubation and Woman Entrepreneurship
- Nepali Cooking Lessons & Nepali Language Classes
- Cultural Tours, Organic Tours and Hikes
- Community Learning Center

## Contact Details:

+977-9841891265 [sanskriti.farms2073@gmail.com](mailto:sanskriti.farms2073@gmail.com)

Find us on:    

## Our Supporters :



## Our Features:

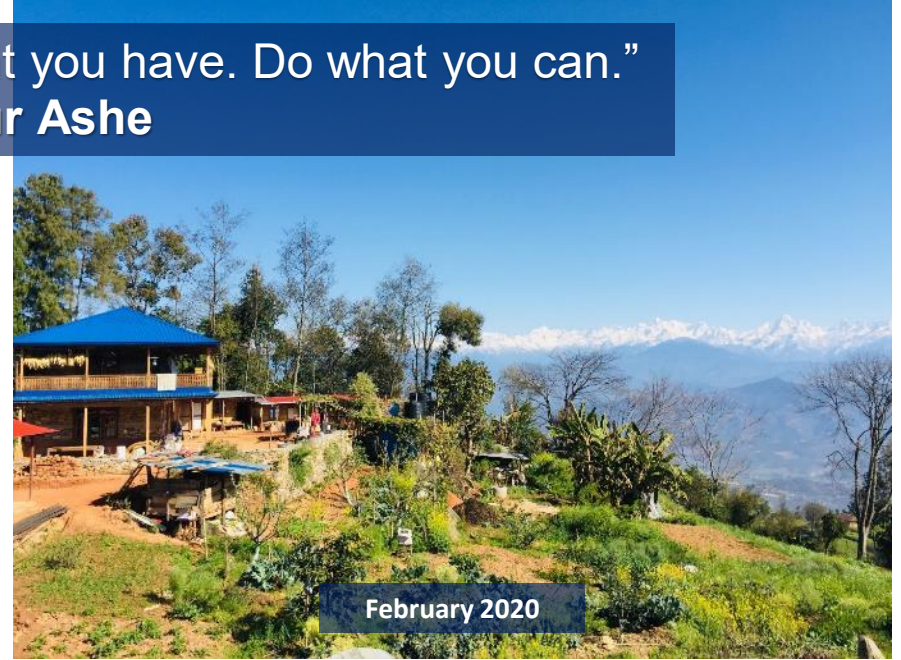
- Beautiful location with panoramic view of the Himalayan range
- Farm Stay in a pleasant, home-like Environment
- Locally grown Organic Food
- Nepali traditional & cultural living experiences
- On demand Training & volunteering





# Sanskriti Farms & Research Centre – A sustainable farming model

“Start where you are. Use what you have. Do what you can.”  
– Arthur Ashe



**We aim to share our knowledge with people to replicate our project in the community**



## WHY this project?

It is our belief that if we can educate our community about organic, sustainable and diversified farming practices including fruits and nuts, our communities will not only be able to survive but will thrive in the future.

Fruits and Nuts are nutrient rich and have high value than the food crops. Easily grows in the mid hills where we are living and requires less water and frequent care. Nuts are storable for longer period which is value addition.

If we don't achieve this, the communities will split apart as more youths leave to earn their livings to abroad or cities, people will be dispersed to earn money to buy pesticide laced food. This can contribute to many illnesses, including depression, as families are split apart based on economic reasons.



# Our future planting project



Avocado



Lemon



Apple



Peach



Plum



Grape White



Walnut



Macadamia



Almond



Red Grapes



Passion Fruit

We are targeting to plant **2000** different varieties of fruit and nut trees in the coming year and will continue this plantation in the future. Our aim is to plant more than **10,000 fruit and nuts trees** in our surrounding community by 2025. *The fruits being planted are tested varieties for climate adaptation and production and grafted, means they produce fruits faster.*

# Our future planting project



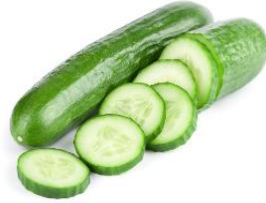
**Bitter Gourd**



**Capsicum**



**Tomato**



**Cucumber**



**Pumpkin**



**Carrot**



**Lady Finger**



**Brinjal**



**Beans**



**Broccoli**



**Cauliflower**

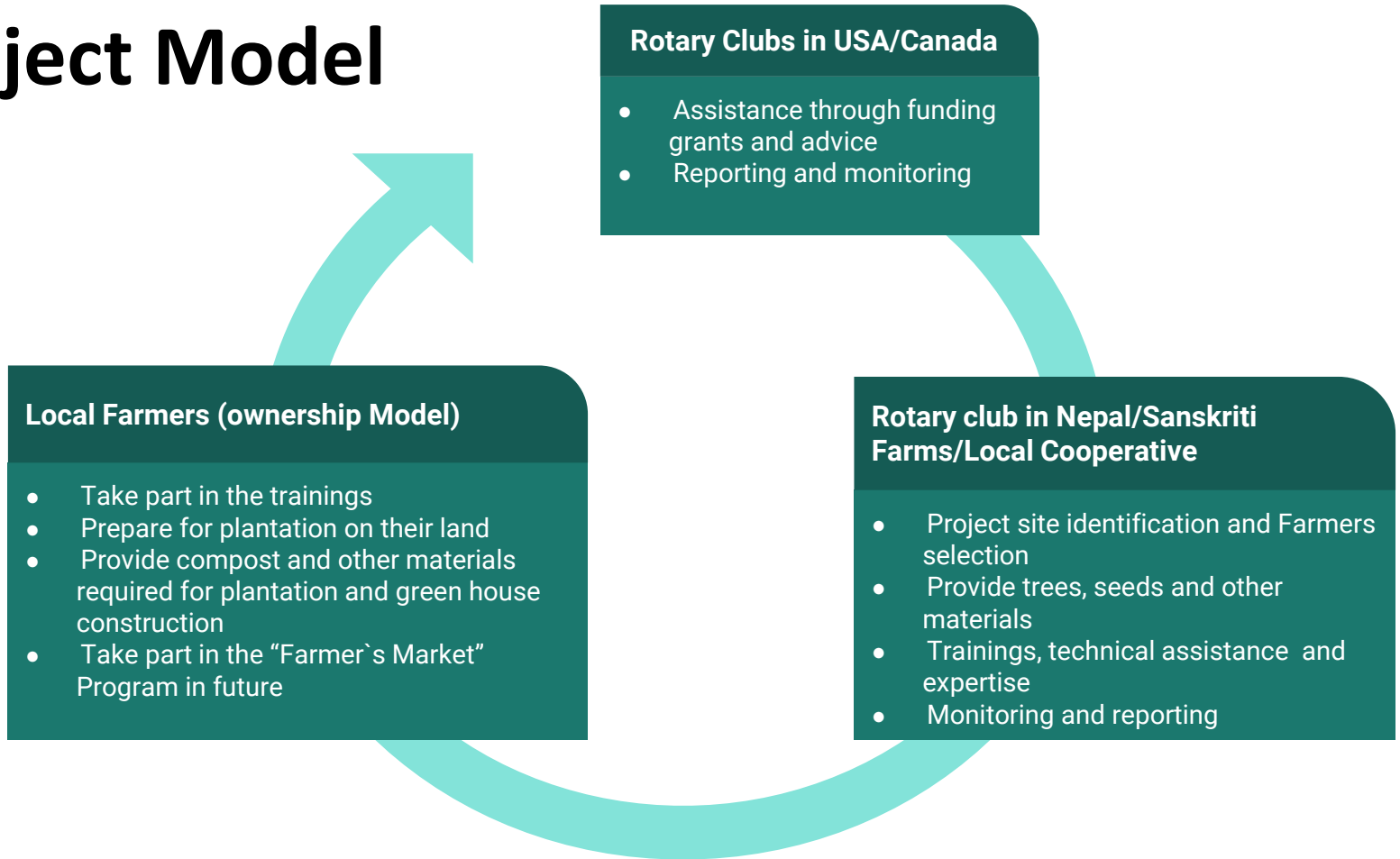


**Radish**

We are promoting more than 12 varieties of seasonal vegetable farming to create a sustainable livelihood through *organic kitchen gardening in the local community. For this Plastic green house will be installed.*



# Project Model



# Farmer`s Selection

- Local Women`s Co-operative partners/Local Government/ Rotary Kathmandu & Kathmandu Height/Sanskriti Farms

## Criteria for selection

- Survey organized a year ago for the village
- Marginalized and staying in the village
- Have keen interest or engaged in fruit and vegetable farming
- Have enough manpower, sufficient land for the plantation
- Member of the local women cooperative (easy participation in any economic activities and support)
- Have installed rainwater harvesting system will be prioritized
- 2 years later, farmers can eat and sell the surplus fruits in the market
- Willing to take part in the “Farmer`s market” program in the future to promote and sell local produce from the community

# Project Budget

- Total Trees being planted: **More than 2000 in more than 100 households** *(to be defined and decided later)*
- **Each household plants 15-20 trees** of different varieties and additional vegetables seeds of different varieties. Farmer`s contribution will be in the preparation for the tree plantation and materials required for the plantation, **Plastic Green house construction**, etc.

**Total Project Budget: 56,000 US\$** *includes kind contribution from farmers*

**Rotary Global Grant Support: 40,000 US\$** *(to be raised)*

**Community Share: 28.57%** *(Materials for the tree plantation like compost manure, bone meals, mustard cakes, Labor for digging hole, etc.)*

**Rotary Club Contribution: 71.43%** *Fruit and Nuts Trees, Green House Plastics, Trainings, Tools, etc.*

Budget breakdown in the next slide



## Global Grant Fruit and Nuts tree plantation Project

### Material Cost

S.N	Items	Unit	Quantity	Rate US \$	Total US \$	Remarks
1	Fruit and Nut Trees (Grafted and tested)	Pieces	2,000	8.00	16,000.00	
2	Vegetable Seeds of different varieties	Households	100	20.00	2,000.00	
3	Plastic Liner for tunnel (90 GSM, 720sq. feet), Nails, GI Wires, etc.	Square feet	100	90.00	9,000.00	
4	Tools and materials for the trees (Sicature, Saw, etc)	Pieces	100	50.00	5,000.00	
5	Transportation of Trees and plastic to sites	Trips	7	100.00	700.00	Different sites on different time
7	Mustard Cake	KG	2,000	0.50	1,000.00	Farmer's contribution
8	Compost Manure (30 Kg in a Doko, local basket)	Doko	2,000	1.00	2,000.00	Farmer's contribution
9	Bone Meal	KG	2,000	0.50	1,000.00	Farmer's contribution
<b>A</b>	<b>Total Material Cost</b>				<b>32,700.00</b>	

### Skill Trainings

1	Hands on Organic farming and pest making Trainings, includes training materials	Times	5	300.00	1,500.00	5 groups of 20 farmers each
2	Hands on Tree Plantation and pruning Training, includes training materials	Times	5	300.00	1,500.00	5 groups of 20 farmers each
3	Awareness program and material distribution program	Times	5	150.00	750.00	Will be organized in 5 differenet communities
4	Print of banner, forms, Stationeries, etc.	Times	1	300.00	300.00	
5	Hole digging for tree plantation, green house tunnel installation (Labor cost and material cost like bamboo, etc)	Nos.	100	120.00	12,000.00	Farmer's contribution
<b>B</b>	<b>Total Management Cost</b>				<b>4,050.00</b>	

### Administration and management Cost

1	Management cost as a lump sum	Times	1	3,250.00	3,250.00	
<b>C</b>	<b>Total Administrative and Management Cost</b>				<b>3,250.00</b>	<b>8% of total grant support</b>
<b>D</b>	<b>Total (A+B+C)</b>				<b>40,000.00</b>	<b>Rotary Contribution (71.42%)</b>
<b>E</b>	<b>Grant support received by Each Household</b>				<b>400.00</b>	<b>Rotary Support</b>
<b>F</b>	<b>Farmer's Contribution</b>				<b>16,000.00</b>	<b>Farmer's contribution (28.57%)</b>
<b>G</b>	<b>Each Household contributes</b>				<b>160.00</b>	<b>Farmer's contribution</b>
<b>H</b>	<b>Grand Total Budget (D+F)</b>				<b>56,000.00</b>	<b>100%</b>

# Changes to Global Grant Funding

- Effective July 1, 2020, the Rotary Foundation will not match Club cash contributions to a Global Grant.
- They match DDF dollar for dollar, as the requirements for GG must still have a budget of USD 30,000 and a request from the World Fund of USD 15,000, this means that every Global Grant project must have at least USD 15,000 DDF in its financing.
- Previously, a project that received USD 10,000 of DDF could meet the USD 15,000 hurdle by adding at least USD 10,000 of Club cash to the project.

# Collaborating Clubs

- RC Kathmandu Height/Kathmandu District **3292 Nepal-Bhutan**
- RC Gananoque, Kingston, Eganville, Cornwall Sunrise, Kingston Frontenac, Kingston waterfront and few more in **District 7040 Canada**
- RC Cranbrook Sunrise, **District 5080, Canada**
- RC Tempe Rio Salado, **District 5495, USA**
- RC Global Passport, **District 6330** ( under discussion)
- Clubs in USA, Australia, and UK (under discussion)

## Partner Organizations

Sanskriti Farms & Research Center, Local cooperatives, Local Government



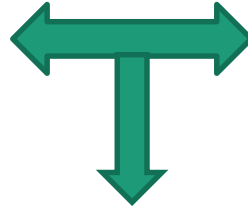
# Budget Allocation Plan

District Designated fund (DDF)

$$A+B+C+D=15,000\$$$

A,B,C... represents different  
Districts

TRF Matching



The Rotary Foundation (TRF)

$$\text{TRF Match}=15,000\$$$

Dollar equals dollar

Club Fund

$$=10,000\$$$

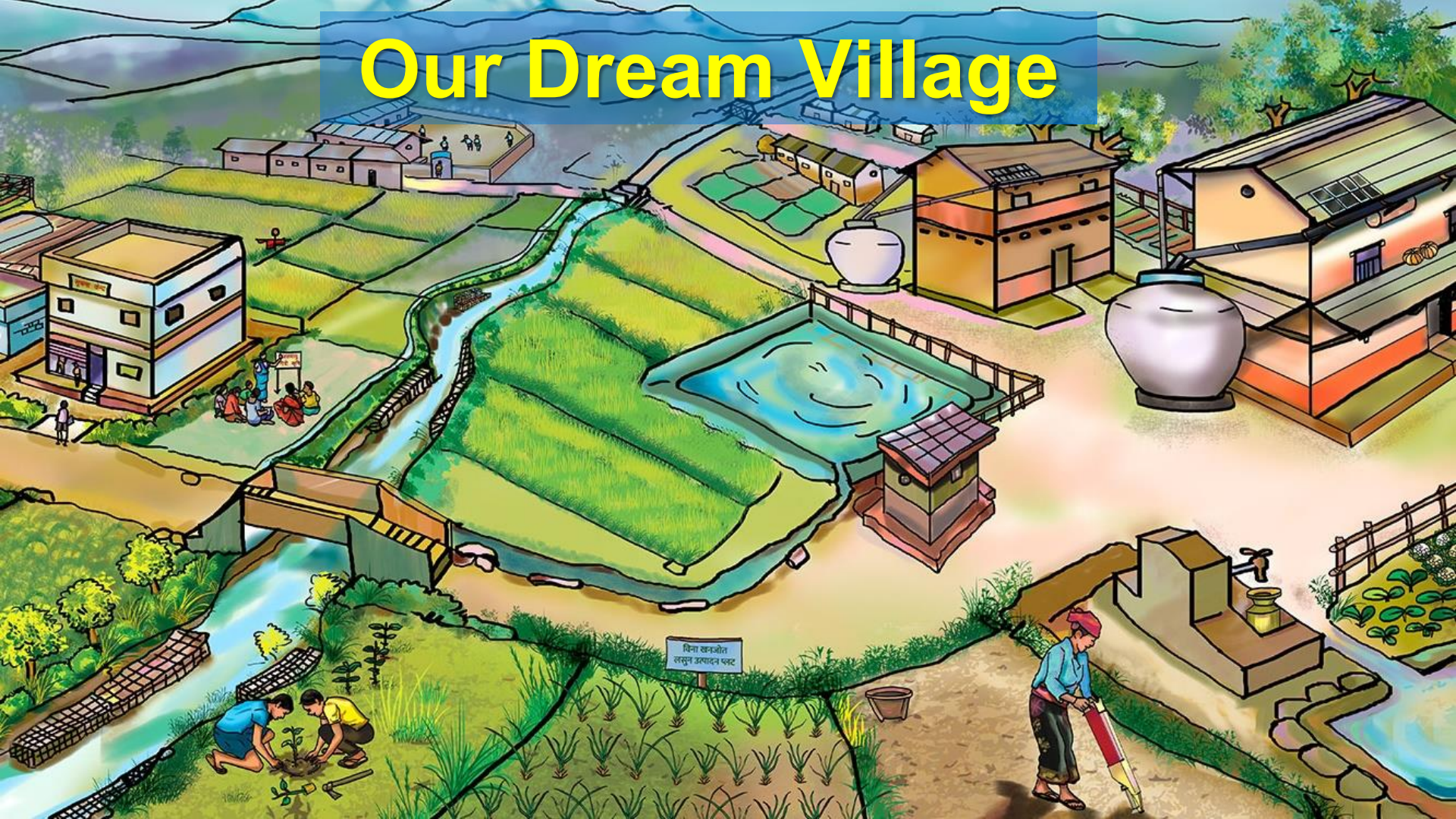
Club fund can be  
matched accordingly

***We require a total  
budget of US \$  
40,000 from Rotary  
Clubs to support the  
project.***

Total Project Budget

$$\begin{aligned} &= \text{DDF} + \text{TRF} + \text{Club Fund} \\ &= 40,000\$ \end{aligned}$$

# Our Dream Village



# Conclusion and Expectations

- Engaging more youths and women in fruit and nuts farming and train the emerging leaders through skill based trainings to create more success stories
- For that, we are looking for an assistance to reach our goals of planting **more than 2000 new fruit and nuts trees, install greenhouses for organic vegetable farming** in our surrounding community and provide trainings and other technical support on tree plantation/organic farming through **Global Grant Project**
- **This is just a small trial and won't have a massive impact as soon but if you have a patience to wait, in 10 years time we have a very bright future for the local community here. (B/C ratio is 1.03 in the 3<sup>rd</sup>/4<sup>th</sup> year to 2.90 in the 9<sup>th</sup>/10<sup>th</sup> year- govt. report)**
- Sharing the “Model of Success” to other villages and I believe this is the best way to “**Give Back**” to the community creating opportunities.



# Rotary International night D 7040, Aug 4 2020



# Presentation on Zoom D 5080, RC Cranbrook Sunrise, Aug 17 2020

Zoom Meeting

Speaker View

Janice Sommerfeld

Shree Krishna Dhital

Dorothy Higgs

Gerry Warner

Samir Nepal

Rolena

Kambi

Bishnu Subedi

Allan Davis

Mute Stop Video

Participants 9 Chat Share Screen Record Reactions

Leave

# Meeting with RC Tempe Rio Salado, D 5495, Aug 27 2020

A screenshot of a Zoom video conference. The interface shows five participants in a grid layout. The top-left tile shows Karen Ingersoll in a room with other people. The top-right tile shows Shree Krishna Dhital and a man in a striped shirt. The middle-left tile shows PNA in a room with a Rotary Club banner. The middle-right tile shows Kent's iPad in a room with a Rotary Club banner. The bottom tile shows Camelback Crossroads, a man with a beard. The bottom of the screen features a toolbar with icons for Unmute, Stop Video, Security, Participants (5), Chat, Share Screen, Record, Reactions, and an End button.

Karen Ingersoll

Shree Krishna Dhital

PNA

Kent's iPad

Camelback Crossroads

Unmute

Stop Video

Security

Participants 5

Chat

Share Screen

Record

Reactions

End



**Thank You  
and  
Namaste from Nepal**

***“Jay Rotary- Hail Rotary”***



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