

Checklist for the Participatory Rural Appraisal on Tomato and Cauliflower Production at different VDC's of Bhaktapur and Kavre

1. Introduction :

2. Objective :

- *To identify the crop management practices existing in the area of purposed farmers' field schools for establish FP plot in comparative study in up coming FFS and TOF.*
- *To locate the sites for conducting FFS during TOF.*
- *To design curriculum for upcoming FFS's.*

3. Methodology: Gender Analysis Matrix, Resource map, cropping calendar, personal interview, group discussion and publication.

4. Findings:

a. Area

b. social aspects

- *History of vegetable farming of this place? who first started ,who supported ,market , technical services and seed sources etc*
- *socio- economic condition VDC name and name of village*
- *irrigated or rainfed ? if yes area .*
- *cropping pattern*

<i>Month</i>	<i>Crops grown</i>

- *ecological belts(climate ,rainfall ,max. and min. temperature)*
- *Literacy,villages, caste and main occupation (social structure)*
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<i>VDC</i>	<i>Caste/ethnic group</i>	<i>population</i>	<i>%</i>

- **Gender role in crop cultivation**

<i>Activity (A/c to crop basis)</i>	<i>Work load in percentage %</i>	
	<i>male</i>	<i>female</i>

- c. Growing season and crops-** *(fresh or off-season, what are the differences in the practices according to season(like -seed rate, spacing, variety, and intercultural operations.)*
- d. Variety –** *Which variety and why? According to season/soil/temperature/ day length etc. and varietal character + farmers experience on disease and insect resistant, price fetching - why. Unique and peculiar things of that variety. Local varieties which are most popular on the basis of what?*

e. Seed/ Nursery-

- *Seed source*
- *OP or hybrid*
- *Treated or not*
- *Seed rate*
- *Buying seedlings or self growing?*
- *Method of nursery management / nursery bed preparation (bed height, length, breadth, mixing of sand or not, composting, soil solarization etc.*
- *Seeding techniques*
- *Seedling age*
- *Hardening Yes or No*

f. Land preparation :

- **Land use / cropping pattern**
- **How many times**
- **Planting**
 - **Time**
 - **Method**
 - **Spacing**
 - **Interculture**

g. Fertilizer :

- **FYM use and quantity (Compost quality ,application methods and its quality) and why?**
- **Basal dose of chemical fertilizer –what, how much, application method, when and or if something else. and why?**
- **Use of micronutrient – time of application & growth stage of crop, dose, type.**
- **farmers typical experiences**

h. Crop protection :

- Disease (what, when, how much). symptoms, growth stage of crop,
- Insect (what, when, how much). What about natural enemies.
- Other disorder.
- Protection measure .
- Use of pesticide and other chemical, growth hormone /growth regulator (Crop wise used pesticide - type, time of application, growth stage of crop, frequency, dose, waiting period, other use of pesticide eg post harvest use), safety measure, method of application and type of equipment used etc.
- Local practices if any, if so, materials and methods.
- Farmers' Attitude towards pesticide

i. Intercultural operation :

- Hoeing /earthling up- time and method
- Weeding, common weeds, time, frequency & method
- Stalking
- Top dressing (type of fertilizer/ method of application, dose, time of application +growth stage of crop)
- Curd covering for cauliflower, leaves and branches thinning for tomato, or any other practices...
- Irrigation – time and method.

j. -Production and productivity

- **Market and price** (*determining factors*)

main market spots , means of transport, packaging materials/ post harvest loss and damage

Selling and buying - individual selling, farmers co-operatives, collection center / broker buying / or some thing else/price.

- **Pre-harvest management with respect to post harvest**
 - **Harvesting time/method**
 - **Ending of irrigation (relation with quality of the product)**
 - **Use of ripening/maturing chemicals (with dose and time)**
 - **Harvesting indices**

k. **Indigenous knowledge and practices if any.**

l. *Miscellaneous /Other important aspects if any (likely to change cropping pattern? , new crop? what you feel lacking? what are your success ? How did you achieve this? According to your opinion , what things will be important to change your KSA ?)*

m. *Economic analysis of present conditions (point of departure)*

1. Cost of production - crop

<i>Activity/ particular</i>	<i>Unit</i>	<i>Qty</i>	<i>Amount</i>	<i>Remarks</i>

2. **Economic status**

- *Sources of income* (farm product-cereals, vegetables, dairy products, livestock, household cottage industry's

product quantity and amount ; civil servant ,private job's earnings amount.)

- Major expenditure activity and amount.

- Saving amount monthly/ yearly.

- **Standard of living** (house type , land size, sanitation ,household equipment number and quality, vehicle type and number