

Annex 1: M& E Framework
Key indicators for the achievement of PDO

Overall Project		
PDO	Outcome Indicator	Target Value¹
<i>Enhance food and nutrition security of poor and vulnerable households in selected locations by improving agricultural productivity, increasing resilience of farming households and their income and improving nutrition practices</i>	% increase in yield of major crops (rice, wheat, maize and potato)	25%
	% increase in yield of pulses and other nutritious crops ²	15%
	% increase in area of pulse crops (legumes)	20%
	% increase in yield of vegetables ³	25%
	% increase in area of vegetables	20%
	% increase in milk yield (per animal per lactation) (cow & buffalo)	40% & 25%
	% increase in goat productivity (at age of 12 months)	50% ⁴
	% increase in egg production (per hen per year)	100%
	% increase in yield of fishes ⁵	25%
	Total number of farm HH reached with project interventions	139500
	% female participation in project interventions	33%
	Farmers (women farmers) ⁶ with increased productivity in Crops and Fisheries Livestock	30000 (12000) 25000 (18000)
	% decrease in stunting rate for children under 5 years	25%
	% decrease in rate of women with low BMI	10%
	% decrease in anemia among women	
	% increase in dietary diversity among women	5%
% increase in minimum acceptable diet	15%	
Number of 1000-days beneficiaries reached with project specific BCC interventions	60000	
Project Components		
Component	Output: Indicator	Target Value
1. Technology development, adaptation and income generation		
<i>Technology generation and testing</i>	• Number of improved crop varieties recommended	10
	• Number of improved location-problem-specific (crop, fish, livestock) package of practices recommended	20
<i>Technology adaptation and dissemination</i>	• Seed replacement rate of various crops	17%
	• Number of improved crop varieties adopted	8
	• Number of improved location-problem-specific (crop, fish, livestock) package of practices adapted	16
<i>Production support to farmers</i>	• Number of groups supported in crops, livestock and fisheries	2200
	• Number of households supported through non-farm interventions	24500
<i>Institutional strengthening</i>	• Number of Community Agriculture Extension Service Centers established and operationalized	28
2. Leveraging Market and Reduction of Risk and Vulnerability		
<i>Building Resilience to farmers</i>	• % decrease in animal mortality	30
	• Number of climate resilient agricultural technologies developed/promoted	10
	• Number of farmers covered by agricultural insurance	

¹ The target value is the end of project target value. Methodological Note: the increase in yield or any 'characteristic' is measured with reference to a control sample (which represents what the general situation would be without any project intervention. Hence, these measures reflect the difference between "with project" and "without project" situation, rather than the erroneous comparison of "after project" and "before project" situation.

² pulses includes Lentil, Red gram, Black gram, Soybean, Kidney bean and minor crops includes buckwheat, finger millet, millet and barley to be defined

⁴For cattle, current baseline production = 450 litres/lactation, target production = 1150 lit /lactation. For goats, current/baseline value is weight gain of 40-60 gms/day and target value is 90 gms/day.

⁵Major Carps,

⁶Target values are given for both total number of farmers, and number of women farmers. The latter are indicated in parenthesis after the total number.

	<ul style="list-style-type: none"> ○ Crop and Fisheries ○ Livestock ● Number of groups using ICT for agriculture and nutrition information ● Number of Early Warning and Weather Risk Management Information Package developed and disseminated 	4000 5000 700 10
<i>Transfer and transaction cost reduction</i>	<ul style="list-style-type: none"> ● % increase in farmers' share in consumers rupee ● Number of collection centers/marketing sheds/storage house established ● % decrease in post-harvest losses in agricultural products 	20 10 20
3. Improved Food Safety and Nutrition Practices		
<i>NFS and HNG</i>	<ul style="list-style-type: none"> ● Number of Students' Nutrition Field School (NFS) established ● Number of Village Model Farm (VMF) established ● Number of Home Nutrition Garden (HNG) established ● Diversity of foods produced on-farm at HH level 	40 5000 60000
<i>Promotion of Processing and Preservation Practices</i>	<ul style="list-style-type: none"> ● Women's groups trained on food preservation and processing methods ● Number of food processing and preservation unit established 	5000 140
<i>Use of Nutrition Services and Promotion of Healthy Diet</i>	<ul style="list-style-type: none"> ● % increase in rate of exclusive breastfeeding ● Minimum meal frequency among children ● Number of recipes developed from NNC at the household level ● Number of local recipes improved and promoted ● % increase in consumption of animal source foods ● % increase in consumption of micronutrient rich vegetables and fruits ● Number of 1000-days women counseled on nutrition at HH level 	80 65 10 10 45 45
<i>Food safety improved</i>	<ul style="list-style-type: none"> ● % Increase in awareness on food safety at household (consumer) level ● % Increase in food safety related knowledge and attitudes at household level 	20 20
Technical Assistance, Capacity Building and Project Management		
<i>Project Office and Technical Assistance</i>	<ul style="list-style-type: none"> ● Number of project-specific technical and training guidelines revised and developed ● Number of government personnel provided trainings with revised package 	As per the need
<i>Capacity Building</i>	<ul style="list-style-type: none"> ● Number of government personnel for high-level training ● Number of short and long-term training 	As per the need
<i>Fiduciary safeguard</i>	<ul style="list-style-type: none"> ● % of payments disbursed to Payment Service Providers on time ● % of allocated budget reaching to beneficiaries on time ● Number of public hearing carried out 	
<i>Project Management</i>	<ul style="list-style-type: none"> ● Project management personnel and support services 	As per the need

Annex 2:

Annex 3: Plan for detailed preparation and finalization of project

Justification

It is difficult to source sufficient and timely funds through the government budget process and no other funding sources are available to finance project preparation.

Proposed activities and associated budgets:

SN	Preparation activities	Budget (USD million)
1	Feasibility studies and detailed designs, including technical studies	100,000
2	Environmental and social impact assessments, gender studies and studies on project-related crosscutting issues	50,000
3	Pre-contract services including revision of designs and tender documents	30,000
4	Institutional support, capacity development and human resource development during the project preparatory phase	100,000
5	Development of the project monitoring and evaluation framework;	50,000
6	Carrying out the design and completion of the baseline studies	100,000
7	Preliminary studies for the structuring of Public-Private Partnerships (PPPs) and concessions	70,000

Grant size requested: Preparation grantsize is limited to a maximum of US\$500,000.

List of full time government team members(who will prepare and finalize the project with the supervising entity. The list should include their current roles)

SN	Name	Designation/Current Role
1	BinodBhattarai	SrAgroeconomist, MoAD
2		
3		

Expected project preparation time (including time needed for reviews and any subsequent clearances needed from government committees and parliament)

Annex 3: Key Indicators for showing food and nutrition security and vulnerability in Project Proposed districts

District	HDI	NAPA2010 vulnerability index	Disasters caused economic loss	% of population below poverty line	Food Balance (mt), 2014	Stunting	Wasting	Underweight	Anemia in U2 children	Anemia in women	Low BMI among Women	Rate of Early Initiation of Breastfeeding	Minimum Acceptable Diet	% of children 6-23 months consuming vitamin A rich foods	% of children 6-23 months consuming iron rich foods
Dolakha	0.459	0.855	0.364	26	-21561	45.5	7.9	34.7	63.7	19.2	14.9	42.8	25.5	47	20.7
Sindhupalchowk	0.455	0.403	0.271	25.4	-4313	31.4	10.3	24	63.7	19.2	14.9	42.8	25.5	47	20.7
Rasuwa	0.461	0.426	0.004	31.6	-45468	45.5	7.9	34.7	63.7	19.2	14.9	42.8	25.5	47	20.7
Dhading	0.461	0.785	0.044	18.8	-25256	31.3	15	22.5	66.6	19.5	11.5	40.3	36	57.6	30.4
Nuwakot	0.466	0.337	0.177	20.3	14063	31.3	15	22.5	66.6	19.5	11.5	40.3	36	57.6	30.4
Gorkha	0.481	0.733	0.008	20.4	-5035	36	7.6	16.8	63	35.9	8.3	40.3	39	57.6	30.4
Dhanusha	0.431	0.635	0.022	23.1	-12160	40.5	10.4	32	67.7	42.6	26.4	31.3	8.8	34.7	13.2
Mahottari	0.388	0.785	1.000	16.2	29578	40.5	10.4	32	67.7	42.6	26.4	31.3	8.8	34.7	13.2
Sarlahi	0.402	0.410	0.071	17.7	49221	40.5	10.4	32	67.7	42.6	26.4	31.3	8.8	34.7	13.2
Rautahat	0.386	0.536	0.034	33.4	-37256	40.5	10.4	32	67.7	42.6	26.4	31.3	8.8	34.7	13.2
Bara	0.457	0.432	0.011	29.9	24098	40.5	10.4	32	67.7	42.6	26.4	31.3	8.8	34.7	13.2
Parsa	0.464	0.604	0.024	29.2	2415	40.5	10.4	32	67.7	42.6	26.4	31.3	8.8	34.7	13.2
Saptari	0.437	0.852	0.081	39.5	7817	31.4	10.3	24	74.8	44.9	19.3	46.8	25.1	48.7	26.9
Siraha	0.408	0.749	0.139	34.6	-42505	31.4	10.3	24	74.8	44.9	19.3	46.8	25.1	48.7	26.9
National	0.490			25.2		40.5	10.9	28.8	68.6	35	18.2	44.5	24.4	46.7	24.1

Annex 4: Major Agriculture, Food and Nutrition Security Related Projects/Programs in Nepal

SN	Name of Project/Program	Development Partner/Institution	Project End	Project Budget (USD million)	Implementation Status	Project Area
1	Raising Income of Small and Medium Farmers Project (RISMFP)	ADB	2018	20.1	Ongoing	Mid and Far Western Regions
2	High Mountain Agribusiness and Livelihood Improvement (HIMALI)	ADB	2017	20	Ongoing	Eastern, Central, Western and Mid Western Regions
3	Community Managed Irrigated Agriculture Sector Project-Additional Financing (CMIASP-AF)	ADB	2021	30 million loan; OFID; 30 million co-financing	Ongoing	Eastern and Central Regions
4	Community Irrigation Project (CIP)	ADB	2018	26.4	Ongoing	12 districts
5	High Value Agriculture Commodity Project (HVAP)	IFAD	2018	18.9	Ongoing	Mid Western Region
6	Rani JamraGularia Irrigation Project (RJKIP)	World Bank	2017	2.7	Ongoing	Mid and Far West Regions
7	Project on Promoting Climate Resilience (PPCR)	World Bank	2018	6.0	Ongoing	
8	Agriculture and Food Security Project (AFSP)	GAFSP	2018	58.0	Ongoing	Mid and Far West Regions
9	KisanKoLagiUnnatBiuKaryakram (Improved Seed for Farmers) (KUBK)	IFAD	2019	57.0	Ongoing	
10	Nepal Agriculture Market Development Program (NAMDP)	SDC	2020	8.7	Ongoing	
11	Nepal Agriculture Service Development Program (NASDP)	SDC	2020	9.59	Ongoing	
12	Home Garden Program(HGP)	SDC	2018	2.8	Ongoing	
13	KISAN	USAID	2017	20	Ongoing	Mid and Far West Regions
14	SABAL	USAID	2020	59	Ongoing	Eastern and Central Regions
15	Suaahara II	USAID	2021	64	Ongoing	Eastern, Central, Western and Mid and Far Western Regions
16	PAHAL	USAID	2020	35	Ongoing	Mid and Far West Regions