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

|  |  |  |
| --- | --- | --- |
| **Overall Project** | | |
| **PDO** | **Outcome Indicator** | **1**  **Target Value** |
| *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* | % increase in yield of major crops (rice, wheat, maize and potato) | 25% |
| % increase in yield of pulses and other nutritious crops2 | 15% |
| % increase in area of pulse crops (legumes) | 20% |
| % increase in yield of vegetables3 | 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 fishes5 | 25% |
| Total number of farm HH reached with project interventions | 139500 |
| % female participation in project interventions | 33% |
| Farmers (women farmers)6with 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** | | |
| *Technology generation and testing* | * Number of improved crop varieties recommended * Number of improved location-problem-specific (crop, fish, livestock) package of practices recommended | 10  20 |
| *Technology adaptation and dissemination* | * Seed replacement rate of various crops * Number of improved crop varieties adopted * Number of improved location-problem-specific (crop, fish, livestock) package of practices adapted | 17%  8 16 |
| *Production support to farmers* | * Number of groups supported in crops, livestock and fisheries * Number of households supported through non-farm interventions | 2200  24500 |
| *Institutional strengthening* | • Number of Community Agriculture Extension Service Centers  established and operationalized | 28 |
| ***2. Leveraging Market and Reduction of Risk and Vulnerability*** | | |
| *Building Resilience to farmers* | * % decrease in animal mortality * Number of climate resilient agricultural technologies developed/promoted * Number of farmers covered by agricultural insurance | 30  10 |

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 3to 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.

|  |  |  |
| --- | --- | --- |
|  | o Crop and Fisheries  o 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 |
| *Transfer and transaction cost reduction* | * % 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*** | | |
| *NFS and HNG* | * 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 |
| *Promotion of Processing and Preservation Practices* | * Women’s groups trained on food preservation and processing methods * Number of food processing and preservation unit established | 5000  140 |
| *Use of Nutrition Services and Promotion of Healthy Diet* | * % 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 |
| *Food safety improved* | * % 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*** | | |
| *Project Office and Technical Assistance* | * Number of project-specific technical and training guidelines revised and developed * Number of government personnel provided trainings with revised package | As per the need |
| *Capacity*  *Building* | * Number of government personnel for high-level training * Number of short and long-term training | As per the need |
| *Fiduciary safeguard* | * % of payments disbursed to Payment Service Providers on time * % of allocated budget reaching to beneficiaries on time * Number of public hearing carried out |  |
| *Project Management* | • Project management personnel and support services | As per the need |

1. 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 6­23 months consuming vitamin A rich foods** | **% of children 6­23 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 |