

Component	1	Market-led agricultural production		
Output	1.1	Increased Production Resilience, Diversification and Innovation		
Sub-output	1.1.1	Climate Smart Agriculture Production and Management		
Activity	1.1.1.1	Support formation of multi-purpose cooperatives	ASAP (80%); BEN (20%)	GSI
Activity	1.1.1.2	Information and communication technology	LOAN_1 (80%); BEN (20%)	GSI
Activity	1.1.1.3	Production support - seeds	ASAP (80%); BEN (20%)	GSI
Activity	1.1.1.4	Processing & value-addition equipment	LOAN_1(80%);BEN(20%)	EQUIPMENT
Activity	1.1.1.5	Field day demonstration	ASAP (80%);BEN(20%)	TRAINING
Activity	1.1.1.6	Cultivation practices training	ASAP (80%);BEN(20%)	TRAINING
Activity	1.1.1.7	Mushroom (Shitake) intensification	ASAP(80%);BEN(20%)	GSI
Activity	1.1.1.8	TA for mushroom development	ASAP(100%)	CONSULTANCY
Sub-output	1.1.2	Innovation through biogas & Permaculture (Agri & Livestock)		
Activity	1.1.2.1	Establishment of climate smart villages (CSV)	ASAP(100%)	GSI
Activity	1.1.2.2	Farm level rainwater harvesting infrastructure	ASAP (50%); BEN (50%)	GSI
Activity	1.1.2.3	Installation of fixed dome biogas digester	ASAP (50%); BEN (50%)	GSI
Activity	1.1.2.4	Capacity building on biogas technology /a	ASAP(100%)	TRAINING
Activity	1.1.2.5	Refresher course to mason on techniques of bio-digester construction /b	ASAP(100%)	TRAINING
Activity	1.1.2.6	Construction of compost pit	ASAP(50%);BEN(50%)	GSI
Activity	1.1.2.7	Collection of indigenous fodder germplasm	ASAP(100%)	TRAINING
Activity	1.1.2.8	Planting native species fodder	ASAP (100%)	TRAINING
Activity	1.1.2.9	Exchange visits for staff & lead farmers /c	ASAP(100%)	TRAINING
Activity	1.1.2.10	Poultry for farm resilience (10 birds & above)	ASAP (100%)	GSI
Activity	1.1.2.11	Resilient seeds and seedlings for tress and shrubs	ASAP(100%)	GSI
Activity	1.1.2.12	Apiculture units	ASAP (80%); BEN (20%)	GSI
Activity	1.1.2.13	Pilot testing of solar dryers	ASAP (80%); BEN (20%)	EQUIPMENT
Activity	1.1.2.14	Pilot testing of BioBolsa flexi biogas system	ASAP(100%)	GSI
Sub-output	1.1.3	Increased Agriculture outreach services		
Activity	1.1.3.1	Lead farm establishment	ASAP (100%)	GSI
Activity	1.1.3.2	Expansion of lead farmers	LOAN_1 (100%)	TRAINING
Activity	1.1.3.3	Farmer-Farmer Extension	LOAN_1(100%)	TRAINING
Output	1.2	Vegetable Production Intensified and Expanded		
Sub-output	1.2.1	Inputs for Vegetable and fruit tree production		
Activity	1.2.1.1	Water efficient irrigation & rain water harvesting cluster /d	LOAN_1(100%)	GSI
Activity	1.2.1.2	Vegetable commercialisation cluster /e	LOAN_1 (100%)	GSI
Activity	1.2.1.3	Provision of resilient vegetable seeds	LOAN_1 (100%)	GSI
Activity	1.2.1.4	Provision of fruit tree seedlings	LOAN_1 (100%)	GSI
Activity	1.2.1.5	Provision of HMAP planting material	LOAN_1(100%)	GSI
Activity	1.2.1.6	Protected agriculture for youth	LOAN_1 (100%)	GSI
Sub-output	1.2.2	Farmers' capacity development		
Activity	1.2.2.1	Training on vegetable seeds/HMAP standard production techniques /f	ASAP (100%)	TRAINING
Activity	1.2.2.2	Training on post-harvest management	ASAP (100%)	TRAINING
Activity	1.2.2.3	Exchange visit for farmers	ASAP(100%)	TRAINING
Sub-output	1.2.3	Support to centres (ARDC,NSC,etc)		
Activity	1.2.3.1	Development of training & extension materials	ASAP (100%)	CONSULTANCY
Activity	1.2.3.2	Seed packaging equipment & dehumidifying for storage NSC Yangtse	LOAN_1 (100%)	EQUIPMENT
Activity	1.2.3.3	Equipment & input field production	LOAN_1(100%)	EQUIPMENT
Activity	1.2.3.4	Production support for seed growers	LOAN_1 (100%)	GSI
Activity	1.2.3.5	Training and certification of vegetable seed growers	LOAN_1 (100%)	GSI
Activity	1.2.3.6	Homestead garden for nutritional enhancement	LOAN_1(100%)	GSI
Activity	1.2.3.7	Service provider contract	LOAN_1(100%)	CONSULTANCY
Output	1.3	Dairy & Fishery Production Intensified and Expanded		
Sub-output	1.3.1	Dairy and Fishery Production Inputs		
Activity	1.3.1.1	Dairy Equipment, milking machine, milk can, chillers	LOAN_1(100%)	GSI
Activity	1.3.1.2	Improved dairy shed with silo pit	LOAN_1 (50%); BEN(50%)	GSI
Activity	1.3.1.3	Supply of improved cattle breed	LOAN_1 (50%); BEN(50%)	GSI
Activity	1.3.1.4	Trout fish hatchery	LOAN_2(100%)	GSI
Sub-output	1.3.2	Dairy breed enhancement		

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Activity	1.3.2.1	AI service expansion & CAIT establishment	ASAP (100%)	GSI	
Activity	1.3.2.2	Breed intensification through sex sorted semen	ASAP(100%)	GSI	
Activity	1.3.2.3	Breed intensification through CHBPP	ASAP (100%)	GSI	
Sub-output	1.3.3	Improved Livestock service outreach			
Activity	1.3.3.1	Training of CAIT_CAHW with AI kits package	ASAP (100%)	TRAINING	TRAINING
Activity	1.3.3.2	Transport facilities for CAIT & CAHW	LOAN_1(100%)	GSI	
Activity	1.3.3.3	Farmers Training	ASAP(100%)	TRAINING	TRAINING
Activity	1.3.3.4	Establishment of LN2 plant	LOAN_1 (100%)	GSI	
Sub-output	1.3.4	Support to feed and fodder production			
Activity	1.3.4.1	Promotion of improved fodder,pasture legumes & leguminous trees	ASAP(100%)	GSI	
Activity	1.3.4.2	Winter fodder demonstration & seed supply	ASAP(100%)	GSI	
Activity	1.3.4.3	Supply of silo packing machine	ASAP (100%)	GSI	
Activity	1.3.4.4	Crop residue enrichment /g	ASAP (100%)	GSI	
Sub-output	1.3.5	Public health risk mitigation in relation to dairy value chain			
Activity	1.3.5.1	Diagnostic equipment for regional centres	LOAN_1(100%)	GSI	
Activity	1.3.5.2	Bio-security for field staff	LOAN_1(100%)	GSI	
Output	1.4	Production related infrastructure			
Sub-output	1.4.1	Irrigation improvement			
Activity	1.4.1.1	Feasibility studies & surveys /h	LOAN_1(100%)	GSI	
Activity	1.4.1.2	Pump irrigation network up to field edge	LOAN_2 (100%)	WORKS	
Activity	1.4.1.3	Canal system upgrading	LOAN_2 (100%)	WORKS	
Activity	1.4.1.4	Piped network in dryland	LOAN_2 (100%)	GSI	GSI
Activity	1.4.1.5	Onfarm demo including rainwater harvesting	LOAN_2(100%)	GSI	GSI
Activity	1.4.1.6	On farm works (matching grant)	LOAN_2 (60%);BEN(40%)	WORKS	
Activity	1.4.1.7	WUA formation and training for pump irrigation units	LOAN_1 (100%)	TRAINING	
Activity	1.4.1.8	Other investment in irrigation system upgrading /i	LOAN_2 (100%)	WORKS	
Activity	1.4.1.9	Multiple use water scheme	LOAN_2(100%)	WORKS	
Sub-output	1.4.2	Model upgrading of farm roads to climate resilient standards			
Activity	1.4.2.1	Model upgrading of farm roads to climate resilient standards	LOAN_2 (100%)	WORKS	
Sub-output	1.4.3	Matching grant facilities			
Activity	1.4.3.1	Electrical fencing	LOAN_2(50%);BEN(50%)	GSI	GSI
Activity	1.4.3.2	Land development terracing and land consolidation and SLM	LOAN_2(50%);BEN(50%)	GSI	GSI
Activity	1.4.3.3	Supply of Chaff cutter	LOAN_1(50%);BEN(50%)	EQUIPMENT	
Activity	1.4.3.4	Small post-harvest equipment	LOAN_1(50%);BEN(50%)	EQUIPMENT	
Component	2	Value Chain Development & Marketing			
Output	2.1	Resilient Vegetable and Dairy Value Chains developed			
Sub-output	2.1.1	Developed Resilient Vegetable Value Chain			
Activity	2.1.1.1	development	ASAP	TRAINING	ASAP
Activity	2.1.1.2	Vegetable value-chain equipments /a	LOAN_1 (80%); BEN (20%)	EQUIPMENT	
Activity	2.1.1.3	Value-chain infrastructure /b	LOAN_2 (80%);BEN(20%)	WORKS	
Output	2.2	Developed Resilient Dairy Value Chain			
Sub-output	2.2.1	Developed Resilient Dairy Value Chain			new
Activity	2.2.1.1	Milk collection sheds & MCC	LOAN_1(100%)	EQUIPMENT	
Activity	2.2.1.2	Bulk chillers and other equipment	LOAN_1(100%)	EQUIPMENT	
Activity	2.2.1.3	Small scale MPU & processing	LOAN_1(100%)	EQUIPMENT	
Activity	2.2.1.4	UHT plant at Dewathang	LOAN_2(70%);KIL(30%)	EQUIPMENT	
Activity	2.2.1.5	Retort flavoured MPU at Nganglam for KIL	LOAN_2(70%);KIL(30%)	EQUIPMENT	
Activity	2.2.1.6	Domestic Market study for KIL	LOAN_1(50%);KIL(50%)	CONSULTANCY	
Activity	2.2.1.7	Market entry study for India	LOAN_1(100%)	CONSULTANCY	
Output	2.3	Support to entrepreneurs & young farmers (Matching Grant)			
Sub-output	2.3.1	Awareness and mobilization			
Activity	2.3.1.1	Development of business plans for entrepreneurs	ASAP (100%)	CONSULTANCY	
Activity	2.3.1.2	Training entrepreneurs & young farmers	ASAP (100%)	TRAINING	
Sub-output	2.3.2	Matching Grant			
Activity	2.3.2.1	Support to inputs and equipment suppliers	LOAN_1 (50%); BEN (50%)	GSI	
Activity	2.3.2.2	Support to post-harvest/processing enterprises	LOAN_1 (50%); BEN (50%)	GSI	

Activity	2.3.2.3	Support to agri. services such as CAIT, input producers	LOAN_1 (50%); BEN (50%)	GSI
Activity	2.3.2.4	Support to rolling stock and equipment	LOAN_1 (50%); BEN (50%)	GSI
Component	3	Institutional Support		
Output	3.1	Strengthening district and Gewog level staff		
Sub-output	3.1.1	Strengthening district and Gewog level staff		
Activity	3.1.1.1	Tools & equipments for M&E	ASAP (100%)	EQUIPMENT
Activity	3.1.1.2	Infrastructure related capacity building /a	ASAP (100%)	TRAINING
Activity	3.1.1.3	Planning and M&E staff /b	ASAP (100%)	TRAINING
Activity	3.1.1.4	TOT for extension staff	ASAP (100%)	TRAINING
Activity	3.1.1.5	Sector coordination meeting	ASAP (100%)	TRAINING
Output	3.2	TA and contractual staff training		
Sub-output	3.2.1	TA and contractual staff training		
Activity	3.2.1.1	Project Management TA	GRANT	CONSULTANCY
Activity	3.2.1.2	Procurement Officer	GRANT	CONSULTANCY
Activity	3.2.1.3	Business development	GRANT	
Activity	3.2.1.4	Marketing TA	GRANT	CONSULTANCY
Activity	3.2.1.5	Project Support Officer	GRANT	CONSULTANCY
Activity	3.2.1.6	Climate change adaptation coordinator	GRANT	CONSULTANCY
Activity	3.2.1.7	Gender & KM Officer	GRANT	CONSULTANCY
Activity	3.2.1.8	National/Internatiol TA	GRANT	CONSULTANCY
Activity	3.2.1.9	M&E and MIS TA	GRANT	CONSULTANCY
Component	4	Project management		
Output	4.1	Project Management unit		
Sub-output	4.1.1	Materials and equipment		
Activity	4.1.1.1	Vehicles /a	GRANT	VEHICLE
Activity	4.1.1.2	Laptops	GRANT	EQUIPMENT
Activity	4.1.1.3	Printers	GRANT	EQUIPMENT
Activity	4.1.1.4	Scanner	GRANT	EQUIPMENT
Activity	4.1.1.5	Photocopier heavy duty	GRANT	EQUIPMENT
Activity	4.1.1.6	Office equipment	GRANT	EQUIPMENT
Sub-output	4.1.2	Capacity building & training		
Activity	4.1.2.1	Training on gender aspects /b	GRANT	TRAINING
Activity	4.1.2.2	Training on knowledge management /c	GRANT	TRAINING
Activity	4.1.2.3	Training on monitoring and evaluation /d	GRANT	TRAINING
Activity	4.1.2.4	Training on financial management /e	GRANT	TRAINING
Activity	4.1.2.5	Training and workshop for OPM staff	GRANT	TRAINING
Activity	4.1.2.6	Study tours and learning visits (in-country & abroad)	GRANT	TRAINING
Sub-output	4.1.3	Coordination		
Activity	4.1.3.1	Coordination meeting with Dzongkhags	GRANT	WORKSHOP
Output	4.2	Monitoring & Evaluation, MIS and KM		
Sub-output	4.2.1	M&E and MIS		
Activity	4.2.1.1	Baseline and impact studies	GRANT	CONSULTANCY
Activity	4.2.1.2	Annual outcome surveys	GRANT	CONSULTANCY
Activity	4.2.1.3	Software development for M&E	GRANT	GSI
Activity	4.2.1.4	IFAD supervision mission & ISM	GRANT	WORKSHOP
Activity	4.2.1.5	Project completion report	GRANT	CONSULTANCY
Sub-output	4.2.2	Knowledge Management		
Activity	4.2.2.1	Printing and publications	GRANT	TRAINING
Activity	4.2.2.2	Workshops and meeting	GRANT	TRAINING
Output	4.3	Recurrent Cost		
Sub-output	4.3.1	Salaries and allowances		
Activity	4.3.1.1	OPM Mongar	RGOB	
Activity	4.3.1.2	Liaison Office Thimphu	RGOB	
Sub-output	4.3.2	Operating costs for Project Management Unit		
Activity	4.3.2.1	Vehicles O&M	RGOB	
Activity	4.3.2.2	Office O&M	RGOB	
Activity	4.3.2.3	Office supplies	RGOB	
Activity	4.3.2.4	Travels & meetings	RGOB	