

Annexure 3: Agency plans

Agriculture Research and Development Centre-Bajo

Outcome	Output	Activities	Unit	Base year	Baseline	Target
Food self-sufficiency enhanced	Cereal production enhanced	Increase in rice productivity in the region	MT/acre	2017	1.54	1.72
		Production and marketing of parboiled rice	MT	2017	0	15
		Increase area under upland rice in the region	Acre	2017	?	1200
		Increase area under direct seeded rice	Acre	2017	0	1000
	Other cereal production enhanced	Promote HYV of buckwheat, millet, wheat and Barley	MT	2017	???	???
	Horticulture production enhanced	Promote protected cultivation for vegetables	Acre	2017	0	20
		Promote commercial production of vegetables in the region	HHs	2017	4	20
		Produce spawn and supply to farmers	Number	2017	12000	20000
		Produce spawn mother culture	Number	2017	0	2000
		Area under improved MAPS technology	Acre	2017	0	10
	Agriculture land developed	Produce flowers and ornamental plants	Number	2017	0	35000
		Develop new terraces in the potential Dzogkhags for paddy production.	Acre	2017	0	3000
	Agriculture service delivery facilities established/improved	Maintenance of citrus germplasm repository	No. of varieties	2017	91	140
		Construction of irrigation pump house and renovation of internal irrigation facilities in Bajo	Timeline	2017	0	2022
Construction of Farm house in Bajo		Timeline	2017	0	2022	
RNR research services strengthened	Agriculture research conducted	Conduct study on traditional rice varieties and maintain pure seeds for market and conservation (special & pigmented varieties)	Number	2017	0	15
		Evaluate climate resilient upland rice varieties	Number	2017	0	2
		Evaluate climate resilient wheat varieties	Number	2017	3	1
		Introduce and evaluate rice varieties	Number	2017	6	10
		Introduce and evaluate of bio-fortified and low GI rice varieties	Number	2017	0	3
		Introduce and Evaluate maize varieties	Number	2017	0	2
		Nutrient profiling and crop nutrient budgeting of field crops	Number	2017	0	5

	Introduce and Evaluate wheat varieties	Number	2017	3	6
	Evaluate Quinoa variety	Number	2017	0	2
	Evaluate fruits & Nuts varieties	Number	2017	6	7
	Introduce and evaluate new fruits and nuts varieties	Number	2017	16	5
	Initiate breeding trials programs	Number	2017	0	1
	Evaluate high yielding vegetable varieties	Number	2017	12	20
	Evaluate high nutrient content vegetable varieties	Number	2017	1	3
	Conduct soil fertility survey, land and nutrient management research	Number	2017	1	5
	Trial on pest and diseases management in crops	Number	2017	0	2
	Study the impact of research out-reach program in the focus villages.	Number	2017	0	3
	Study the impact on electric fencing, bio-digester, water harvesting, and SLM	Number	2017	0	5
	Yield gap analysis for Rice in Bhutan	Number	2017	0	1
	Yield gap analysis for Citrus in Bhutan	Number	2017	0	1
	Yield gap analysis for wheat and other cereals	Number	2017	0	1
Agriculture technologies generated	Release bio-fortified and low GI rice varieties	Number	2017	0	3
	Release wheat varieties	Number	2017	3	2
	Release quinoa variety	Number	2017	0	2
	Release rice varieties	Number	2017	23	6
	Release maize varieties	Number	2017	0	2
	Identify & release high value fruits and nuts varieties	Number	2017	3	3
	Release off-season vegetable varieties	Number	2017	0	3
	Release vegetables varieties	Number	2017	22	5
	Generate information on Soil fertility, land and nutrient management technologies	Number	2017	1	3
	Generate technologies on Pest and diseases management in crops	Number	2017	5	2
Agriculture technologies adopted	Promote improved maize varieties	MT	2017	2	10
	Intensify and promotion of oil seeds	Acre	2017	0	1000
	Intensify demonstration and promotion of pulses and grain legumes	Acre	2017	1194	1750
	Promote high value fruits and nuts varieties	Acre	2017	4	40
	Promote IPNM technologies	Number	2017	2	3

		Promote IPM technologies	Number	2017	3	5
		Promote user, gender and environment friendly machineries	Number	2017	0	2
	Awareness on improved agricultural technologies enhanced	Maintain fruits and nuts germplasm	Number	2017	6	10
		Establish demonstration sites and research outreach program on field crop technologies	Number	2017	20	300
		Establish demonstration sites and research outreach program on horticultural technologies	Number	2017	31	50
		Establish demonstration and outreach program on organic technologies	Number	2017	0	5
		Maintain germplasm for ginger and cardamom	Number	2017	0	5
		Agriculture knowledge and information management enhanced	Publish annual reports	Number	2017	5
	Produce technical papers on research conducted, leaflets and compendium on improved technologies		Number	2017	100	10
	Publish research articles in BJA		Number	2017	6	10
	Generate regional agriculture database		Number	2017	0	1
		Publish regional cost of production on major commodities	Number	2017	0	1
Enhanced climate smart and disaster resilient development	Climate smart technologies released and adopted	Release climate resilient rice varieties	Number	2017	0	2
		Release climate smart wheat variety	Number	2017	0	1
		Climate resilient crop management technologies	Number	2017	3	7
		Release stress tolerant vegetables varieties	Number	2017	0	1