Project Output	Project Activities	Direct beneficiaries				Indirect beneficiaries				Total Beneficiaries
		Total	Male	Female	Total per Output	Total	Male	Female	Total per Output	
Output 1.1.1: Variety information release protocol and data sheet for each variety created and database developed.	Activity 1.1.1.1 Establish seed cane variety information database and working group.	43[1]	36	7	3,793[2]	5,000[3]	3,350	1,650	23,750	5,043
	Activity 1.1.1.2 Farmer seed cane sensitization and training.	3,750[4]	2,512	1,238		18,750[5]	12,560	7,428		22,500
Output 1.2.1: Seed cane rollout master plan and distribution systems for 974 acres of seed cane nurseries.	Activity 1.2.1.1 Establish and implement seed cane nursery sites, production protocols and distribution system.	43 [6]	36	7	260[7]	5,000	3,350	1,650	5,000	5,043
	Activity 1.2.1.2 Train seed cane nursery collaborators.	260	174	86		5,000	3,350	1,650		5,260
	Activity 1.2.1.3 Plant seed cane nurseries.									
Output 1.3.1: 10,000 acres of land replanted to climate adapted varieties.	Activity 1.3.1.1 Develop standards and guidelines for land preparation and planting inclusive soil management.	18[8]	14	4	2,853[9]	5,000	3,350	1,650	85,007	5,018
	Activity 1.3.1.2 Identify and train suitable service providers	200[10]	134	66		1,000[11]	670	330		1,200
	Activity 1.3.1.3 Establish digital marketplace for service providers to replant fields.	35[12]	17	18		6,000[13]	4,000	2,000		6,035
	Activity 1.3.1.4 Train farmers on climate	2,800[14]	1,876	924		14,000 [15]	9,380	4,620		16,800

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[1] Estimated number of persons trained, includes technical staff from SIRDI, BSI, Farmer's Association, and the Ministry of Agriculture. Gender disaggregation 84% males and 16% females.

[2] 70% of registered sugarcane farmers and technical staff from SIRDI, BSI, Farmer's Association, and the Ministry of Agriculture. capacitated

[3] Estimated number of registered sugarcane farmers expected to access and utilize the database (67% males and 33% females).

Output	Activity								
	smart replanting methods.								
	Activity 1.3.1.5 Replant sugarcane fields based on a set predefined criterion.	**2,000**[16]	1,340	660		**85,007**[17]	42,395	42,612		**87,007**
Output 1.4.1: 10,000 acres prepared to be mechanically harvested and 2,000 acres mechanically harvested.	Activity 1.4.1.1 Ensure fields are suitably prepared for mechanical harvesting. Activity 1.4.1.2 Identify clusters of fields for viable mechanical harvesting. Activity 1.4.1.3 Upscale green Harvesting Programme and associated delivery parameters.	**19**[18]	15	4	**219**[19]	**2,000**	1,340	660	**3,000**	2,019
	Activity 1.4.1.4 Train cane cutters on elements of industry	**200**[20]	180	20		**1,000**[21]	900	100		**1,200**

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[4] Estimated number of sugarcane farmers sensitized and trained (67% males and 33% females).

[5] Estimated population of household of farmers trained (67% males and 33% females at 5 persons per farmer trained) Number of Person per household estimation sourced form https://sib.org.bz/statistics/population/.

[6] Estimated number of persons trained; includes technical staff from SIRDI, BSI, Farmer's Association, and the Ministry of Agriculture. (Gender disaggregation 84% males and 16% females).

[7] Estimated number of nursery collaborators capacitated and technical staff trained from SIRDI, BSI, Farmer's Association, and the Ministry of Agriculture) (67% males and 33% females).

[8] Estimated number of persons trained from SIRDI, BSI, Farmer's Association, and the Ministry of Agriculture. (Gender disaggregation 72% males and 28% females).

[9] Estimated number of persons capacitated and persons trained from SIRDI, BSI, Farmer's Association, and the Ministry of Agriculture and along with nursery collaborators and farmers.

[10] Estimated number of service providers capacitated across the northern sugar industry (67% males and 33% females).

[11] Estimated population of household of service provider capacitated (67% males and 33% females at 5 persons per farmer trained) Person per household estimation sourced form https://sib.org.bz/statistics/population/.

[12] Estimated number of persons trained from SIRDI, BSI, Farmer's Association, and the Ministry of Agriculture (49% males and 51% females).

[13] Estimated number for persons from financial institutions, sugarcane service providers, agro-input enterprises and vendors servicing the northern sugar industry.

[14] Estimated number of sugarcane farmers capacitated (67% males and 33% females).

[15] Estimated population of Household of farmers capacitated (67% males and 33% females at 5 persons per farmer trained) Person per household estimation sourced form https://sib.org.bz/statistics/population/.

[16] Estimated number of farmers capacitated from the replating support provided by the project (at a minimum of 5 acres per farmer)

[17] Remaining population of northern sugar belt (87,007-2,000)

[18] Estimated number of persons trained from SIRDI, BSI, Farmer's Association, and the Ministry of Agriculture.

[19] Estimated number of cane cutters capacitated and persons trained from SIRDI, BSI, Farmer's Association the Ministry of Agriculture.

[20] Estimated number of cane cutters capacitated across the northern sugar belt.

[21] Estimated population of household of cane cutter capacitated (5 persons per farmer trained) Person per household estimation sourced form https://sib.org.bz/statistics/population/.

	transformati on								
Output 1.5.1: 10,000 acres of land with improved soil health and ratoon managem ent.	Activity 1.5.1.1 Develop and implement soil managemen t protocols for different residue and moisture regimes.	**43**	36	7	**43**[22]	**2,000**	1,340	600	**2,000**	**2,043**
Output 2.1.1: Toolkit and Guidelines for climate resilient for irrigation and drainage developed .	Activity 2.1.1.1 Develop criteria for irrigation and drainage to identify most vulnerable farmers and/or farms where conditions make implementat ion viable. Activity 2.1.1.2 Develop system to allow service providers to develop drainage and irrigation.	**54**	45	9	**54**[23]	**5,000**	3,350	1,650	**5,000**[24]	**5,054**
Output 2.2.1: 1,000 acres drainage and 2,000 acres irrigation.	Activity 2.2.1.1: Implement drainage and irrigation infrastructur e for 3,000 acres. Activity 2.2.1.2 Water managemen t and irrigation scheduling training.	**600**	402	198	**600**[25]	**3,000**[26]	2,010	990	**3,000**	**3,600**

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[24] Estimated number of industry stakeholder reached.
[25] Estimated number of farmers capacitated from the implementation of drainage and irrigation infrastructure (67% males and 33% females).
[26] Estimated population of household of farmers capacitated (5 persons per farmer trained) Person per household estimation sourced form https://sib.org.bz/statistics/population/.

Output	Activity								
Output 2.3.1: 10,000 acres of improved pest and residue Management measures implemented.	Activity 2.3.1.1 Develop and implement pest management protocols for different residue and moisture regimes.	**54**	45	9	**54[27]**	**5,000**	3,350	1,650	**5,000**	**5,054**
Output 3.1.1: Transformation, Training and Capacity Building Systems developed.	Activity 3.1.1.1 Conduct transformational forum to sensitize farmers on transformation strategy. Activity 3.1.1.2 Develop Climate Resilient Transformation Strategy and conduct gender sensitive climate-smart agriculture training program. Activity 3.1.1.3 Develop and implement wholistic and gender responsive training strategy and training material to build climate resilience	**5,000**	3,350	1,650	**5,000[28]**	**82,007[29]**	59,945	27,062	**82,007**	**26,250**
Output 3.2.1 Smart Sugar Cluster and Sugar Industry Management	Activity 3.2.1.1 Upscale the Sugar Industry Management Information System (SIMIS)	**28**	16	12	**28[30]**	**6,000**	4,000	2,000	**6,000**	**6,028**

[28] Estimated number of persons trained from SIRDI, BSI, Farmer's Association, Ministry of Agriculture, Department of the Environment, Ministry of Economic Development, Office of Rural Development, Ministry of Human Development Social Transformation and Poverty Alleviation and Industry other stakeholders including service providers, financial institutions, and farmers.

[29] Remaining population of industry stakeholders in the northern sugar belt (87,007-5,000). estimation sourced form https://sib.org.bz/statistics/population/.

[30] Estimated number of persons trained from SIRDI, BSI, Farmer's Association, Ministry of Agriculture

Information System scaled	Sub Activity 3.2.1.1.1: Capacitate Industry stakeholders on the use and functionality of the Smart Sugar Cluster and Sugar Industry Management Information System								
	Activity 3.2.1.2 Upscale and operationalize the Smart Sugar Cluster								
Output 3.3.1: Climate resilient farming Models that enable industry transformation and knowledge sharing developed.	Activity 3.3.1.1 Develop and implement climate resilient farming models to promote industry transformation.	**18**	14	4	**18**[31]	**5,000**[32]	3,350	1,650	**5,000**	**5,018**
	Activity 3.3.1.2: Conduct training on farming models									
Output 3.4.1: Farmer vulnerability criteria and assessment guidelines.	Activity 3.4.1.1 Develop gender inclusive farmer economic and social vulnerability criteria and assessment guidelines and requisite training and socialization plans.	**65**	50	15	**65**[33]	**2,000**[34]	1,340	660	**2,000**	**2,065**
Total		5,013	3,495	1,518		87,007	43,735	43,272		92,020

Total	92,020	
Male	47,230	
Female	44,790	

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[31] Estimated number of persons trained from SIRDI, BSI, Farmer's Association, Ministry of Agriculture, Ministry of Natural Resources and Department of the Environment.

[32] Estimated number of registered sugarcane farmers capacitated to adopt to the farming models developed.

[33] Estimated number of persons trained from farmers associations, SIRDI, BSI, office of the NDA, National Climate Change Office, Ministry of Agriculture, Ministry of Natural Resources, Ministry of Human Development, Families, Indigenous Peoples' Affairs

[34] Estimated number of farmers that will benefit from the replating support provided by the project.

Direct Beneficiaries per ARA					
Project Output	**Project Activities**	**ARA 1** **Most vulnerable people and communities**		**ARA 4** **Ecosystems and ecosystem services**	
		Male	Female	Male	Female
Output 1.1.1: Variety information release protocol and data sheet for each variety created and database developed.	Activity 1.1.1.1 Establish seed cane variety information database and working group.	36	7		
	Activity 1.1.1.2 Farmer seed cane sensitization and training.	2,512	1,238		
Output 1.2.1: Seed cane rollout master plan and distribution systems for 974 acres of seed cane nurseries.	Activity 1.2.1.1 Establish and implement seed cane nursery sites, production protocols and distribution system.	36	7		
	Activity 1.2.1.2 Train seed cane nursery collaborators.	174	86		
	Activity 1.2.1.3 Plant seed cane nurseries.				
Output 1.3.1: 10,000 acres of land replanted to climate adapted varieties.	Activity 1.3.1.1 Develop standards and guidelines for land preparation and planting inclusive soil management.	14	4		
	Activity 1.3.1.2 Identify and train suitable service providers	134	66		
	Activity 1.3.1.3 Establish digital marketplace for service providers to replant fields.	17	18		
	Activity 1.3.1.4 Train farmers on climate smart replanting methods.	1,876	924		
	Activity 1.3.1.5 Replant sugarcane fields based on a set predefined criterion.	1,340	660		
	Activity 1.4.1.1 Ensure fields are suitably prepared for mechanical harvesting.	15	4		

Output 1.4.1: 10,000 acres prepared to be mechanically harvested and 2,000 acres mechanically harvested.	Activity 1.4.1.2 Identify clusters of fields for viable mechanical harvesting.				
	Activity 1.4.1.3 Upscale green Harvesting Programme and associated delivery parameters.				
	Activity 1.4.1.4 Train cane cutters on elements of industry transformation	180	20		
Output 1.5.1: 10,000 acres of land with improved soil health and ratoon management.	Activity 1.5.1.1 Develop and implement soil management protocols for different residue and moisture regimes.			36	7
Output 2.1.1: Toolkit and Guidelines for climate resilient for irrigation and drainage developed.	Activity 2.1.1.1 Develop criteria for irrigation and drainage to identify most vulnerable farmers and/or farms where conditions make implementation viable.			45	9
	Activity 2.1.1.2 Develop system to allow service providers to develop drainage and irrigation.				
Output 2.2.1: 1,000 acres drainage and 2,000 acres irrigation.	Activity 2.2.1.1: Implement drainage and irrigation infrastructure for 3,000 acres.			402	198
	Activity 2.2.1.2 Water management and irrigation scheduling training.				
Output 2.3.1: 10,000 acres of improved pest and residue Management measures implemented.	Activity 2.3.1.1 Develop and implement pest management protocols for different residue and moisture regimes.	45	9		
Output 3.1.1: Transformation, Training and Capacity Building Systems developed.	Activity 3.1.1.1 Conduct transformational forum to sensitize farmers on transformation strategy.	2,512	1,238		
	Activity 3.1.1.2 Develop Climate Resilient Transformation Strategy and conduct gender sensitive climate-smart agriculture training program.				

Project Output	Project Activities				
	Activity 3.1.1.3 Develop and implement wholistic and gender responsive training strategy and training material to build climate resilience				
Output 3.2.1 Smart Sugar Cluster and Sugar Industry Management Information System scaled	Activity 3.2.1.1 Upscale the Sugar Industry Management Information System (SIMIS)				
	Sub Activity 3.2.1.1.1: Capacitate Industry stakeholders on the use and functionality of the Smart Sugar Cluster and Sugar Industry Management Information System	16	12		
	Activity 3.2.1.2 Upscale and operationalize the Smart Sugar Cluster				
Output 3.3.1: Climate resilient farming Models that enable industry transformation and knowledge sharing developed.	Activity 3.3.1.1 Develop and implement climate resilient farming models to promote industry transformation.	14	4		
	Activity 3.3.1.2: Conduct training on farming models				
Output 3.4.1: Farmer vulnerability criteria and assessment guidelines.	Activity 3.4.1.1 Develop gender inclusive farmer economic and social vulnerability criteria and assessment guidelines and requisite training and socialization plans.	50	15		
Sub-Total		**3,048**	**1,311**	**447**	**207**
Total		**4,359**		**654**	

In-Direct Beneficiaries per ARA			
Project Output	**Project Activities**	**ARA 1** **Most vulnerable people and communities**	**ARA 4** **Ecosystems and ecosystem services**

		Male	Female	Male	Female
Output 1.1.1: Variety information release protocol and data sheet for each variety created and database developed.	Activity 1.1.1.1 Establish seed cane variety information database and working group.	3,350	1,650		
	Activity 1.1.1.2 Farmer seed cane sensitization and training.	12,560	6,190		
Output 1.2.1: Seed cane rollout master plan and distribution systems for 974 acres of seed cane nurseries.	Activity 1.2.1.1 Establish and implement seed cane nursery sites, production protocols and distribution system.	3,350	1,650		
	Activity 1.2.1.2 Train seed cane nursery collaborators.	3,350	1,650		
	Activity 1.2.1.3 Plant seed cane nurseries.				
Output 1.3.1: 10,000 acres of land replanted to climate adapted varieties.	Activity 1.3.1.1 Develop standards and guidelines for land preparation and planting inclusive soil management.	3,350	1,650		
	Activity 1.3.1.2 Identify and train suitable service providers	670	330		
	Activity 1.3.1.3 Establish digital marketplace for service providers to replant fields.	4,000	2,000		
	Activity 1.3.1.4 Train farmers on climate smart replanting methods.	9,380	4,620		
	Activity 1.3.1.5 Replant sugarcane fields based on a set predefined criterion.	43,735	43,272		
Output 1.4.1: 10,000 acres prepared to be mechanically harvested and 2,000 acres mechanically harvested.	Activity 1.4.1.1 Ensure fields are suitably prepared for mechanical harvesting.	1,340	660		
	Activity 1.4.1.2 Identify clusters of fields for viable mechanical harvesting.				
	Activity 1.4.1.3 Upscale green Harvesting Programme and associated delivery parameters.				
	Activity 1.4.1.4 Train cane cutters on elements of industry transformation	900	100		
				1,340	660

Output	Activity				
Output 1.5.1: 10,000 acres of land with improved soil health and ratoon management.	Activity 1.5.1.1 Develop and implement soil management protocols for different residue and moisture regimes.				
Output 2.1.1: Toolkit and Guidelines for climate resilient for irrigation and drainage developed.	Activity 2.1.1.1 Develop criteria for irrigation and drainage to identify most vulnerable farmers and/or farms where conditions make implementation viable.			3,350	1,650
	Activity 2.1.1.2 Develop system to allow service providers to develop drainage and irrigation.				
Output 2.2.1: 1,000 acres drainage and 2,000 acres irrigation.	Activity 2.2.1.1: Implement drainage and irrigation infrastructure for 3,000 acres.			2,010	990
	Activity 2.2.1.2 Water management and irrigation scheduling training.				
Output 2.3.1: 10,000 acres of improved pest and residue Management measures implemented.	Activity 2.3.1.1 Develop and implement pest management protocols for different residue and moisture regimes.	3,350	1,650		
Output 3.1.1: Transformation, Training and Capacity Building Systems developed.	Activity 3.1.1.1 Conduct transformational forum to sensitize farmers on transformation strategy.	15,072	7,428		
	Activity 3.1.1.2 Develop Climate Resilient Transformation Strategy and conduct gender sensitive climate-smart agriculture training program.				
	Activity 3.1.1.3 Develop and implement wholistic and gender responsive training strategy and training material to build climate resilience				
Output 3.2.1 Smart Sugar Cluster and Sugar Industry Management Information System scaled	Activity 3.2.1.1 Upscale the Sugar Industry Management Information System (SIMIS)	4,000	2,000		
	Sub Activity 3.2.1.1.1: Capacitate Industry stakeholders on the use and functionality of the Smart Sugar Cluster and Sugar Industry Management Information System				

	Activity 3.2.1.2 Upscale and operationalize the Smart Sugar Cluster				
Output 3.3.1: Climate resilient farming Models that enable industry transformation and knowledge sharing developed.	Activity 3.3.1.1 Develop and implement climate resilient farming models to promote industry transformation.	3,350	1,650		
	Activity 3.3.1.2: Conduct training on farming models				
Output 3.4.1: Farmer vulnerability criteria and assessment guidelines.	Activity 3.4.1.1 Develop gender inclusive farmer economic and social vulnerability criteria and assessment guidelines and requisite training and socialization plans.	1,340	660		
Sub Total		**40,385 (Male)**	**41,622 (Female)**	**3,350 (Male)**	**1,650 (Female)**
Total		**82,007**		**5,000**	