

Ubugenzi Skills+ Project FACTSHEET : NYAGAHANGA TSS Field Visit 17th of November 2025

Project Location:

- **Nyagahanga TSS** : (-1.6144754044693967, 30.219444766306907) ([Google Map](#)) – Gatsibo District, Eastern Province, Rwanda

Nyagahanga TSS has been developed through several construction phases since 1976. Initial buildings were constructed between 1976 and 1980, followed by an additional block built in 2012. Most of the original buildings underwent a major rehabilitation in 2021, including new roofing, ceilings, windows and a complete upgrade of electrical installations, which preserved their structural integrity and functionality.

Today, Nyagahanga TSS already offers the three key agriculture-related trades—Agriculture, Animal Health and Food Processing—and hosts 431 students, 54% of whom are girls, for the 2025–2026 academic year. However, to meet the higher standards required of a future TVET Centre of Excellence in Agriculture and to align with modern TVET expectations, the school will require a combination of minor rehabilitation, major refurbishment, new construction works, as well as extensions onto new areas of the site.

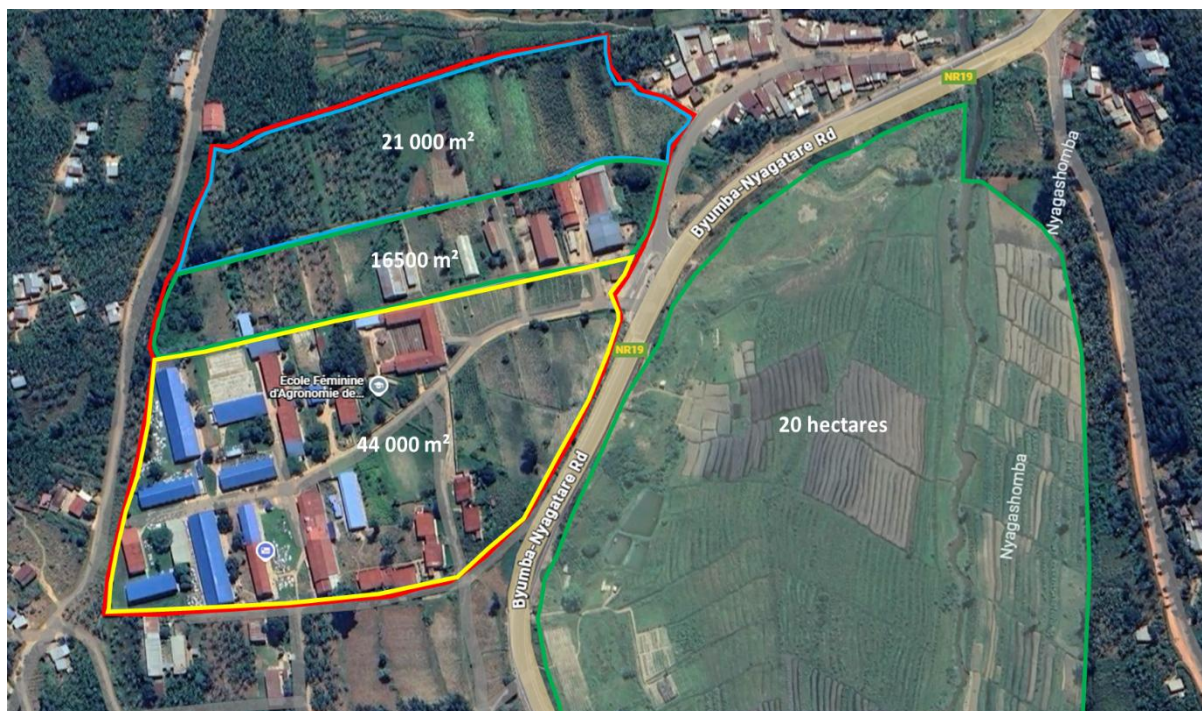
To accommodate a target cohort of 450 students, the project foresees the construction of 18 new classrooms, the development of 8 workshops, a complete Practical Training Unit on 1,7 hectares, and a specialised Production Unit focused on the dairy, poultry, and cereal value chains. These investments will improve learning comfort for students and teachers, strengthen sports and after-class facilities, and support both technical training and the development of essential soft skills—laying the foundations for transforming Nyagahanga TSS into a modern, high-standard TVET Centre of Excellence in Agriculture.

School land

Nyagahanga TSS is located in a low-lying valley area and benefits from direct access to a river that crosses its agricultural land. The school owns a total of 28 hectares, comprising an 8-hectare main campus and an additional 20-hectare agricultural plot situated across the road. While the built-up area of the campus is fenced, the school property extends beyond the fenced boundaries. According to the district master plan, both educational and agricultural activities are authorised within this zone, enabling the continued development of practical training and production units on the wider school land.

The image below shows the areas of interest for the project, for the development of the campus (**yellow**), the practical training area/PTU (**green**) and the Production Unit (**blue**). These three areas of interest will be used for the development of the overall construction project. However, it should be noted that the function of each area is different. On the one hand, the campus remains an educational area that will require special care to upgrade and improve standards. On the other hand, the PTU is an area for agricultural and livestock farming practice and demonstration that is attached to the campus (educational and experimental area), but which remains versatile and diversified with more modest investments. Finally, the Production Unit (PU) is a purely industrial (agro-industrial) area with independent operation and management from the school, which, like the campus, will require significant investment but will start from scratch.

There is no need for additional land for this project, as there is a large amount of agricultural land available on the other side of the road. However, it is important to note that the area dedicated to the campus, the PTU and the PU remains limited and that land management will be important, particularly for the campus.



Actual Infrastructures



The Nyagahanga TSS campus is organised into clearly defined zones, including staff residential housing, a central academic and administrative zone, and a separate area for students' dormitories. Within the main site, the school currently provides 25 detached buildings, including classrooms, dormitories, workshops, administrative facilities, and a range of internal and external practical areas supporting the three trades of Agriculture, Animal Health and Food Processing. **The total NFA of all the buildings is 6,646 m².**

Table : Summary of existing facilities at Nyagahanga TSS

Summary of existing infrastructure	NFA m²
Admin	140
Other	89
AGR Storage	28
AGR Internal practical area	45
ANH Internal practical area	45
ANH Storage	22
Classroom	1 012

Library	83
Staff Room	149
ICT lab	176
Multipurpose	295
Girls dormitories	751
Boys dormitories	744
Auditorium	135
Dining room	524
FOP Internal practical area	167
Staff hostel	325
Old priest house	400
ANH External practical area (chicken)	423
ANH External practical area (rabbits)	18
AGR External practical area (greenhouse)	0
ANH External practical area (storage)	250
ANH Internal practical area (VET)	36
ANH External practical area (cows)	266
ANH External practical area (pigs)	522
Total existing infrastructure surface area	6 646

Investments planned

Investments to develop the TVET CoE in Nyagahanga will be made in three areas: the campus, the Practical Training Unit (PTU) and the Production Unit (PU). The work will involve minor and major renovations to existing buildings, as well as new construction. The estimated investments for this are presented here for a **total of €3,625,000 / RWF 6,0B**:

Areas of investments	Amounts planned	Nature of main investments
Campus	Investments €1,750,000 / RWF 2,6B	Upgrading the quality and quantity of educational infrastructure to accommodate 450 students in the three trades, through the construction of 18 new classrooms, and 02 smart classrooms, as well as areas for personal and collective development through sports compounds and multi-purpose activity rooms. Investments will be made to improve working conditions for management and teaching staff, as well as energy management and transport (minibus). The layout of the areas will need to be designed according to their use in order to improve the coherence of the campus. To this end, some buildings may be demolished and replaced.
PTU (Practical Training Unit)	Investments & Operation €375,000 / RWF 0,6B	Development of 16,500 m ² of diversified animal production area and a 10 hectares agricultural production area including open field area, greenhouses, agricultural mechanisation and IoT. An adult training area will be developed with a training room, restaurant and sanitary facilities.

Production Unit	<p>Investments €1,500,000 / RWF 2,4B</p> <p>Operation €500,000 / RWF 0,8B</p>	Development of two agro-industrial production and processing units specialising in the following sectors: 01 modern semi-automated dairy production unit with primary processing of dairy products + 01 modern poultry production unit (meat and eggs), with slaughterhouse and primary processing. A unit for the preparation of animal feed in the form of pellets and flour (for poultry and dairy cattle) could be installed to complete the investment.
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A. At the campus level, which remains the top priority for investment in terms of both quality and quantity, initial assessments have made it possible to list the needs for upgrading. The following table highlights the priority needs in terms of educational and administrative infrastructure on the one hand, and day and night accommodation infrastructure on the other. These are the initial needs that have been identified. A second, more detailed list is being prepared and will be shared as the tendering process progresses. This initial information is being provided to applicants to help them frame their bids.

Campus Facilities	Number (Standards)	NYAGAHANGA	
		Existing (Renovation)	New (Construction)
Education			
Classrooms	18	-	18
Smart Classrooms	3	1	2
Science Laboratory	1	-	1
Library	1	-	1
Workshops	8	6	2
Storage	2	1	1
Department Office / Teachers room	4	0	4
Admin block	1	-	1
Resource Center	1	-	1
Career Guidance	1	0	1
Incubation Center	1	0	1
Teachers/Experts visitors accommodation	1	0	1
....			
After Class			
Girls dormitory (with sanitary, matron room, sick room, laundry...)	1	1	TBD
Boys dormitory (with sanitary, patron room, sick room, laundry...)	1	1	TBD
Infirmary	1	1	0
Sport compound	1	0	1
Kitchen	1	1	0
Refectory	1	1	0
Auditorium	1	1	0
Canteens (for teachers / for students)	2	0	2
...			

B. At the Practical Training Unit (PTU). This area will primarily be used for practical education for students throughout the school year, but also for adults (young people and

professionals) through short, one-off training courses. It will be managed by the school through a team of administrative staff, teachers, technicians and workers. It is characterised by productive investments that are highly diversified in terms of agriculture, livestock and processing (reflecting all the subjects covered in the curricula and courses in agriculture, livestock and agri-food processing), and by a level of modernisation that reflects SME and cooperative models. The PTU, which will serve as a training centre for adults, must include in its infrastructure investments a block that will accommodate adults in short training courses, i.e. adult training rooms, separate toilets, a care centre (for young children) as well as a dining and kitchen area, and offices for a management team instructors, and operators. This block will be adjacent to the PTU and separate and independent from the campus.

PTU Facilities	Number (Standards)	NYAGAHANGA	
		Existing (Renovation)	New (Construction)
Practical Education Agriculture			
Storage	1	1	0
Productive area (open field, greenhouses, nurseries, storage, silos, ...)	TBD	TBD	TBD
Garage	1	0	1
Post Harvest facilities	1	0	1
...			
Practical Education Animal Health			
Productive area (ruminant, milk, rabbits, poultry, pigs, ...)	TBD	TBD	TBD
Vet room	1	0	1
Transformation/Processing area (...)	TBD	TBD	TBD
Cooling and Storage facility	1	0	1
...			
Practical Education Food Processing			
Multi process Room	4	0	4
PTU shop	1	0	1
...			
Training Center			
Admin office	1	1	0
Instructors / Trainers office	2	2	0
Adults Training rooms	4	4	0
Kitchen	1	0	1
Refectory	1	1	0
Changing room	1	1	0
Care Center	1	1	0
Incubation Center	1	1	0
Smart / Connected room	1	1	0
...			

- C. **The Production Unit.** This industrial zone is independent and separate from the school, and its primary objective will be to generate income from agricultural and livestock production, as well as food processing, with a secondary objective of providing dual training for students and adults. Although this is a business and not an educational

institution, the infrastructure must be designed to accommodate apprentices and trainees (changing rooms, briefing rooms, dedicated toilets, etc.). Investments will be made in the complete development of the sites from scratch (including aspects of sustainable energy, water, land, and waste management), in the establishment of industrial sub-units specialising in productive sectors (dairy and poultry), in auxiliary sub-units (cereals storage unit), and in support buildings (management office, garage, postharvest, etc.) and the transport fleet for deliveries.

Production Unit Facilities	Number (Standards)	New (Construction)	NYAGAHANGA
			Details
General infrastructure			
Energy rooms	1	1	
Admin / Management office	1	1	
Refectory	1	1	
Garage	1	1	
...	TBD	TBD	
Specialised Production Unit #1 Dairy Unit			
Productive area (...)	1	1	Dairy Unit – 1 ha (infrastructure ≈ 5000 m ²) (100 dairy cows + milking parlour + feed & forage storage) Main Buildings Cow Housing / Cubicle Shed Covered Feeding Area Milking Parlour (2×8 or 2×10) Milk Tank Room / Hygiene Room Calf and Heifer Shed Forage Storage Building (hay, silage, concentrates) Veterinary and Treatment Room Administrative Block (office, records, meeting room) Staff Facilities (changing rooms, showers, hygiene area)
Transformation/processing area (...)	1	1	
Cooling and Storage Facilities	2	2	
Briefing / Debriefing Room			
...			
Specialised Production Unit #2 Poultry Unit			
Productive area (...)	1	1	Poultry Unit – 1 ha (infrastructure ≈ 2 500 – 3 300 m ²) (2,000 layers + 3,000 broilers + feed mill + small slaughter unit) Main Buildings Layer House (2,000 layers) Broiler House (3,000 birds per cycle) Small Poultry Slaughter Unit Cold Room / Chilled Storage Feed Mill and Feed Storage Building Silo Area (covered) Packaging and Dispatch Area Biosecurity Gate / Sanitation Point Administrative Block (office, control room, records) Staff Facilities (changing rooms, showers, toilets)
Transformation/processing area (...)	1	1	
Cooling and Storage Facilities	1	1	
Briefing / Debriefing Room	1	1	
...			
Auxiliary sub-units Cereals	1	1	Cereals Unit (0,3 ha (infrastructure ≈ 1000 m ²))

			<p>Demonstration plots: 0.15 ha maize + 0.15 ha rice.</p> <p>Small Solar Powered pump (3-5 HP) with accessories: PVC pipes and fittings, Drip/sprinkler system (optional), Water storage tank.</p> <p>Training & Administration Building (40 m²)</p> <p>Storage room (30 m²)</p> <p>Equipment shed (30 m²)</p> <p>Post-Harvest Processing Area (Semi-open structure with good ventilation) of 100 m²: Covered drying floor (concrete, 60 m²) and Processing shed (40 m²)</p> <p>Storage Facilities (Small silo structure) (20 m²)</p>
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