

## 1. Country and Facility Location Brief

#### 1.1 General Introduction

**Project Sponsor:** Thomas Pharmaceutical International Development (TPID)

**Client:** Thomas Pharmaceutical

**Government Agency:** Ministry of Health of Rwanda (MOH)

**Sponsor Board Members:** 

<b>Board Member Place of Birth</b>	Project Role
UK	Project Coordinator and Chair
China	Project Management
Spain	Operation and Facilities Management
Japan	Design and Procurement
Greece	Staffing and Training Programme
France	Project Information Management

#### **Proposed Project**

The project is to design, construct, validate and operate a complex manufacturing facility that meets world class pharmaceutical standards in Rwanda. The facility will produce the antiretroviral (ARV) Lamizido, one of the 255 drugs approved by the World Health Organization (WHO), which is a mixture of Zidovudine and Lamivudine and is manufactured in doses of 150 and 300 grams.

The new facility will operate at the pharmaceutical level of secondary production and tertiary level.

#### Issues to address

- Late Delivery of Products
- Problems managing and exceeding the budget
- Poor performance delivery
- Governance and Organisation
- Post Delivery Operations (managing a multi cultured team)
- Lack of Leadership

#### **1.2 Country History**

Rwanda has been able to make important economic and structural reforms and sustain its economic growth rates over the last decade. Driven mostly by large public investments for implementation of the National Strategy of Transformation, Rwandan economic growth exceeded 10% in 2019 alone (World Bank). However, as of 2020, the COVID-19 pandemic has managed to disrupt similar growth rates. The disturbance in the international flows of goods and services has had some significant spillovers to

the broader global economy as well. Rwandan GDP for 2021 is projected to drop as far as 9.4 billion USD, compared to the 10.12 billion USD worth of GDP during 2019 (tradingeconomics). The International Monetary Fund (IMF) approved a credit of USD 109.4 million to Rwanda to cushion the impact of lost foreign earnings from trade and tourism—sectors that were hit hardest by the pandemic. Still, this contribution was evidently not adequate for Rwanda to bounce back to the previous numbers. As of 2020 (2<sup>nd</sup> Quarter), Rwanda's GDP observed a reduction of 12.4%. Agriculture dropped by 2% while industry and services dropped by 19% and 16% respectively. Trade dropped by 22% and the health sector due to investments in the sector to deal with COVID-19 grew by 5%.

Since 1995, the MoH supported by the WHO, has started the goal of providing quality health services accessible and acceptable to the majority of the population. Rwanda, like many other African countries, relies on China and India for their medicine security. This is why, due to the increase in demand of medical drugs with limited access to such materials, the pharmaceutical industry is among the hardest hit by the pandemic (African Development Bank Group, 2020).

### 1.3 Rwanda PESTEL Analysis

Political	Economic	Social
Paul Kagame of the	Growth averaged 7.5%	Population of Rwanda is
Rwandan Patriotic Front	over the decade to 2018,	12,952,218 as of 2020
has been the president	while per capita gross	(worldometer.info).
since 2000.	domestic product grew at	
	5% annually (world bank).	18% of the total
The president and other	Growth is projected at	population live in the
government officials	8.2% in 2021.	urban areas while the rest
regularly threatened		reside in the rural areas.
those who criticized the	As of 2020, the	
government, showing	unemployment rate	Age group ranging from
signs of autocracy.	stands at 1.04%	15-44 comprise 46.2% of
	(statista.com).	the total population
Mysterious deaths and		(Britannica.com)
inconclusive missing	A total score of 62.3 is	
cases of the members	aggregated to the	Languages generally
from opposition political	Economic/Business	spoken are Kinyarwanda,
parties and journalists	Freedom at Rwanda	French, Swahili, and
display lack of freedom	(heritage.org).	English.
of expression.		
	A total score of 61.2 is	
With the	aggregated to the Trade	
Commonwealth	Freedom at Rwanda	
Secretariat's help, the	(heritage.org).	

Rwanda government has strengthened systems to fight corruption.
Significant progress on Transparency International's Corruption Perception Index can be seen.

Technological
The high costs of transport and energy, due to Rwanda's

Increased domestic demand has moved the inflation rate up to 1.6%. (afdb.org)

Import grew faster than exports as the trade deficit widened from 3.5% to 11.3% of GDP in 2019 (afdb.org).

#### **Environmental**

The average land available is 0.60 ha per household. This causes overexploitation of land and such malpractices have disastrous consequences for other land resources as well.

Water resources occupy 8% of the national territory.

Rwanda doesn't have a master town plan. Towns have been developed spontaneously without considering any environmental aspects. (Environmental Profile of Rwanda—European Commission)

## Legal

Private property shall be inviolable. No infringement shall take place except for the reason of public utility, in the cases and manner established by law, and in return for fair and prior compensation.

Standards for physical space and organization of pharmacies are developed by the MOH.

The Investment
Production Law offers
incentives to foreign
investors. These
incentives may be
particularly attractive for
foreign manufacturers
that are facing rising
domestic labour costs.

Mandatory EIA report submission is required. Upon submission to the authority, the EIA shall be a public document and any person can access it (elaw.org).

The high costs of transport and energy, due to Rwanda's landlocked position and poor logistics system, constrain its ability to attract investments and keep its private sector from expanding in jobintensive industries.

State-run Rwanda
Information Technology
Authority announced
that it had completed a
nationwide 2,300kilometre fiber-optic
cable. It provides fast
internet access to a wide
range of broadband
services. (un.org)

Rwanda is currently distributing free mobile phones to thousands of community health workers throughout the country. These are used to provide updates on health issues to local clinics via text messages.

Rwanda currently has	
one international airport	
and no railways.	

### **1.4 Potential Challenges** (Source: https://www.doingbusiness.org/en/rankings)

Ease of Doing Business	Rwanda	UK
Rank within group	38	8
Starting a business	35	18
Dealing with Construction	81	23
Permits		
Getting Electricity	59	8
Registering Property	3	41
Getting Credit	4	37
Protecting Minority	114	7
Investors		
Paying Taxes	38	27
Trading Across Borders	88	33
Enforcing Contracts	32	34
Resolving Insolvency	62	14

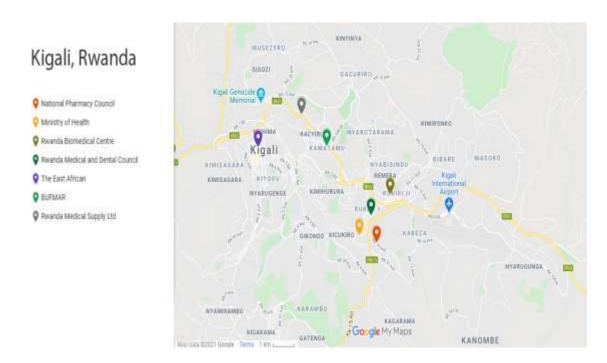
Advantages of doing project in Rwanda
English and French are the accepted business languages.
Trades with UK under the protocols of the European Union.
Recognized as the safest country in Africa (also the cleanest one).
Ranked 9 <sup>th</sup> among African nations to have reduced extreme poverty between
2000 and 2015 (worldbank.org).
Manufacturing sector contributed 17% of the total GDP in 2019.
Second easiest place to do business in Africa (worldbank.org).

#### 1.5 Facility Location

TPID, like any other responsible manufacturing facility, is expected to file an Environmental Impact Assessment (EIA) to the Rwanda Development Board (RDB) before its establishment in Rwanda. This assessment ought to address significant factors such as social influences, environmental impacts, management plans, monitoring strategies, and mitigation measures of the business.

Regarding a location for constructing a complex TPID manufacturing site, I'd definitely suggest Kigali, the capital of Rwanda. I propose so because during the construction of a manufacturing site, several elusive issues could rise up that are associated with

pharmaceutical production or medical facilities. In such cases, central spots like the National Pharmacy Council, Ministry of Health, and East African Business Council. all which are situated within Kigali, will be of huge assistance to TPID. This will not only save time but also make it easier for TPID to solve numerous debatable concerns. Furthermore, well-known locations such as the Rwanda Biomedical Center, Rwanda Medical and Dentil Center, Rwanda Medical Supply, BUFMAR pharmaceuticals, CAMERWA pharmaceuticals, and several other district pharmacies are established within the Kigali territory. Therefore, a partnership could be an asset to TPID. As far as the mobility (imports and exports) of medications and production is concerned, Kigali International Airport, the primary airport in Rwanda, will be of huge advantage. This makes Kigali a worthwhile location for the construction of a TPID manufacturing site.



# 2. Cultural and Communication Challenges

#### 2.1 Governance and Organisation

Smooth and effective project governance are quintessential for TPID to operate smoothly. However, certain cultural and communication challenges during the process of organising and governing the TPID manufacturing site are inevitable. These may include international cultural differences, structural differences, management difficulties, and many more. Hence, it is important for us to identify these challenges

and implement proper mitigation measures or design appropriate contingency plans as soon as possible in order to reduce the casualties. A proper governance ensures legislative compliance, preservation of the sector's image and integrity, and well-operated production.

Challenge	Description	Mitigation
Differences in	Sometimes, while	Regular meetings could be
Ideologies	constructing an entirely	organized and
	new business site, even the	memorandums could be
	closest people might have	issued to the board of
	thoughts that differ from	representatives at regular
	one another.	intervals.
International Cultural	While working in an	TPID should allow Project
Differences/Language	international project,	Sponsors and a few key
Barriers	something that might seem	members of the project
	comfortable for one group	team in Rwanda to see and
	of workers might offend	comprehend the cultural
	other groups. This might	differences. Even better if a
	lower the morale and	Rwandan project manager
	motivation level of	or supervisor is recruited
	workers/employees.	for the team.
Exceeding Budget	Over valuation of resources	Partnership with WHO or
	or minor levels of	Rwanda FDA, who have
	corruption within the	more insight on allocating
	business could result in the	adequate resources and
	budget limit being	into the problems of
	exceeded.	corruption, could benefit
		TPID to use established and
		referred network links.
Restrictive Practices	Failure to recognise certain	Proper research team
	differences can have	should be set up so that
	disastrous effect on TPID's	minor errors can be
	organising strategies. Some	prevented. Sometimes
	words have unfortunate	these small errors could
	meanings when translated	turn out to be too
	into other languages.	dangerous for the firm.
	Colours can have different	Therefore, before making
	significances too—in the	any important decisions,
	Far West, white rather than	revision of the decision is
	black is associated with	extremely essential.
	mourning.	
Legislative	Legal differences might	Going through all the legal
Compliance/Licensing	impact international	materials and codes of

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Differences in Business Practices	marketing in several ways. For example, in Rwanda, using the photographs of government buildings for product advertisements without proper license in against the law. Similarly, plastic packaging might result in the business being halted.  Accounting standards and auditing formats can vary in Rwanda and UK. The ease of setting up a manufacturing site varies widely as well—it can take a few days in UK, yet the formalities and form-filling can take more than few weeks in Rwanda.	conduct before taking actions is necessary for TPID in order to continue its operation. TPID could outsource a lawyer who is able to distinguish between the rights and the wrongs of TPID. This way TPID can operate smoothly without going against any conducts.  Appointing a native auditor to go through the TPID books of account would be a wise decision to avoid any sorts of discrepancies.
Means of Communication	While constructing an entire manufacturing site in Rwanda, it's quite not possible to have all British employees. Most of the workers indeed belong to Rwanda. These workers could be adapted to different means of communication than the one TPID plans to use.	Surveying the workers for a proper means of communication could solve the problem. Diverse modes of communication being used in separate levels of the business could be useful as well. Practicing oral communication in the manufacturing unit and IT and web-based media at the management level would be the way to go.

## 2.2 Project Management

Application of proper processes, skills, methods, and experience to attain specific project objectives will be a key to success for TPID. To be completely well-functioning, this project needs to be planned and managed, costs determined and times allocated, and problems dealt with. Key elements for such project management are:

- Defining the project carefully, including the setting of clear objectives.
- Dividing project up to manageable tasks and activities.

- Controlling the project at every stage (both production and distribution) to check that time limits are being kept to.
- Giving each team employee a clear role.
- Providing controls over quality issues and risks.

Challenge	Description	Mitigation
Structural Differences	TPID manufacturing unit	As we know that coming
	will need to carry out a lot	up with an entirely new
	of tasks simultaneously.	structure and
	This means that a lot of	implementing that
	employees are needed for	structure within a
	this new TPID site. It's not	completely new
	possible to recruit	environment is extremely
	employees who are all	difficult, we could at least
	similar and have	try to make some changes
	comparable preferences.	to the existing
	Someone who has	organisational structures.
	previously worked under	It may be by appointing a
	a matrix structure might	group monitor to a matrix
	find it difficult to follow	structured team or
	the orders of a	designing a hierarchical
	supervisor, while	structure that includes
	someone adapted to the	members from all
	hierarchical structure	functional departments.
	could be hesitant to work	TPID could even organize
	in a team without a	weekly training programs
	leader.	for employees so that
		they get comfortable
		working in their
		respective groups.
Employment Practices	Most countries have their	Before beginning the
	own employment	process of recruitment,
	practices to safeguard the	TPID should carefully go
	rights of their employees	through the laws that
	and promise them a	control the relationship
	favoured working	between employers and
	environment. This is	employees. These legal
	mainly to prevent	constraints usually cover
	exploitation of workers.	employment contracts
		and termination of those
		contracts, health and
		safety at work, minimum

		wagos and trade union
		wages, and trade union
C	A	rights and responsibilities.
Competition	As a non-native company	It would be really
	trying to construct a new	beneficial if TPID could
	manufacturing site in a	form a kind of partnership
	new, unfamiliar nation, it	with another
	is obvious that TPID is	pharmaceutical
	going to face a lot of	production firm in
	competition from other	Rwanda. This will not only
	firms who operate and	assist TPID workers to
	produce similar products	adapt to a new
	in Rwanda. Those firms	environment quicker, but
	who have a strong control	also ensure that they are
	over the market	not being exploited as an
	(monopoly) could try and	unaccompanied unit. As
	give TPID a tough time by	for the delivery of raw
	convincing suppliers to	materials for production,
	delay the delivery of raw	TPID should sign contracts
	materials or disrupt the	with trusted suppliers so
	supply chain.	that they get their
		deliveries in time and do
		not require to delay their
		production and supply
		schedule. Developing a
		strong relationship with
		the WHO could solve
		issues associated with an
		oligopolistic market and
		chances of getting
		exploited in a new
		territory.
Technology	Although Rwanda	Before designating any
1 comology	observed a technological	employee to a particular
	revolution after genocide,	unit, no matter what
	it still lags behind the UK	country he/she belongs
	in terms of technological	-
	advancements. This might	to, it is extremely necessary to test their
	lead to serious concerns	•
		skills in using certain
	that TPID should be	technologies or
	aware of. Rwandan	machineries. Human
	employees might be	Resource Department
	unaware and not skilled	should take over the role
	enough to use the	to train manpower so that
	machineries and	they can use advanced

	technologies TPID has made available to them This causes the quality of products to be compromised and, in the worst case, serious physical injuries to workers.	techs. Furthermore, direction manuals for machines should be made available to every employee. These steps will ensure timely production of goods along with lower risks of physical injuries.
Political Differences	Changes of governments can cause instability in some countries and this increase the risk of doing business there. Acts of terrorism or threats of civil violence, which might lead to destruction of company's assets, will all add to the problems of production and distribution.	Trying to ignore politics entirely isn't reasonable, especially when something newsworthy happens. When employees have different political views, acknowledging these differences makes them respect each other's opinions. If there are threats of civil violence, better get a meeting with high ranked dignitaries of the government and take steps to reduce casualties to the business as much as possible.

# 2.3 Stakeholder Management

Managing stakeholders is a critical factor of any project or programme. In TPID, the main stakeholders are identified as follows:

- Rwanda Ministry of Health
- World Health Organization
- Shareholders
- Government of Rwanda
- Sponsor Board (TPID)
- Project Manager
- Financial Authorities
- Project Team
- Local Community
- Employees

- Trade Unions
- Competitors
- Suppliers
- Environmental Groups
- Press or Media
- Customers
- Distributors

Challenge	Description	Mitigation
Marketing Behavior	An appealing marketing	First and foremost, to
	behavior might get you a	establish awareness of
	large group of consumers	TPID products within the
	while one that bothers	market, mass media
	people does you no good.	marketing, such as
	Once consumers become	television or radios, are of
	aware of the TPID	massive importance.
	products, the next phase is	Through these means,
	to generate preference	TPID can reach out to very
	compared to other	large audience. However,
	competitive products. As	getting those audiences to
	challenging this step might	prefer your products more
	be, it is really essential to	than those of your
	get TPID going in a day-by-	consumers is pretty
	day expanding global	challenging. This requires
	market.	more detailed and
		targeted communications
		to consumers to influence
		their decision-making. It
		can be through the
		development of websites
		to increase interactions or
		sample surveys.
Corporate Social	Fulfilling the CSR is not as	However, the economic
Responsibility (CSR)	easy as people might think	incentive for proactive CSR
	it is. It demands for total	activities have proven to
	transparency and	be powerful. In 2014, a
	disclosure. Additionally,	pharmacy chain CVS
	those looking to invest	stopped selling tobacco
	capital are more likely to	products and sacrificed
	invest in companies with	about \$2 billion worth of
	high marks for corporate	sales. Two years later, the
	responsibility and	same company had a 66%

sustainability.
Furthermore, connecting
CSR to value chain and
profitability is an ultimate
challenge for TPID.

higher stock price than before it dropped tobacco. This proves the effectiveness of proactive CSR activities. Studies have found that 63% of consumers worldwide buy from companies aligned with their values. Performing CSR reduces employee turnover by almost up to half. Ultimately, we can allude that CSR helps a company thrive in the market.

#### **Differing Priorities**

As a drug manufacturing company, the TPID production facility will obviously end up with a lot of waste and harmful materials, chemicals, or by-products. While environmental groups emphasize on the proper disposal of those harmful materials and suggest purchasing expensive machineries that end up with less by-products, shareholders desire increased profits and higher expenses made on increasing the production. This mismatched interest leads to conflict between the stakeholders.

In order to prevent disputes between the stakeholders, TPID could get its priorities straight before beginning the production. This way, those who desire to invest in TPID manufacturing site know what they are getting into. It would be totally reasonable to stop those investors later on in case they diverge from the original priorities of TPID. Similarly, carrying out activities that appeal to most stakeholder groups at regular intervals is prone to keep stakeholders interested and invested towards TPID and its functioning. This may be done through grand Annual General Meetings (AGMs), issuing bonuses, organising community cleaning campaigns, conducting meetings with trade

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These could even be	
serious enough to	
jeopardize the entire	
functioning of TPID.	

#### 3. Critical Success Factors

Critical Success Factors are key points that, when well executed, define and ensure the development and growth of a company and its business, as well as achieving its goals. In contrast, when these same factors are overlooked or ignored, they can contribute to the failure of an organization.

Critical Success Factors should and need to be found through a thorough study of the company's goals, deriving them from its mission, vision, and values, making them mandatory and essential references for the company to survive, to be competitive and succeed whatever the industry.

Examples of general Critical Success Factors:

- Financial Strength Reputation: Employ an accountant to look after the financial aspects of the projects.
- Management Qualifications: Ensure all financial management procedures and processes are transparent.
- Knowledge of the Market: Perform proper market research and prepare a report regarding target group of consumers.
- Image with Stakeholders: Share reports with clients every month which indicates time and money spent.
- Available Equipment: Purchase and use high-end machineries and technologies that are productive, have less chances of injuring the workers physically, and are easy to be handled.
- Relationship with Suppliers: Understand current position of contracts and have some control.
- Expertise in Controlling Costs: Perform best practices financial management practices regularly such as filing documents and back up.

- Location: Target demographic areas with potential consumers, easy access to resources, institutions that could assist the client in case of emergencies, and proper infrastructure.
- Lines of Products and Services: Focus on the production of goods unique in the market. Design a unique selling point for the products or differentiate the products from those that are sold by the competitors. Actively fulfill the Corporate Social Responsibilities.
- Expertise in Distribution and Logistics Channels: Conduct training campaigns for workers/employees and outsource experts in the field of logistics and distribution.
- Expertise in Promotional Campaigns: Emphasize on proper marketing and advertisement.



To successfully implement this project, TPID must translate its research outcomes into actionable insights. It is obvious that TPID uses market research tools, including patient pathways, physician segmentation, and focus groups before manufacturing the products. However, the only way it can succeed is with successful launches that transform the market data into actionable insights. These messages are grounded in clinical data and built on efficacy and safety, but besides these, consideration should be given to the cognitive shortcuts that doctors deploy when they learn about new treatments. Only after the completion of this process, the final decisions ought to be made. Understanding these

pathways can help TPID communicate the benefits of its medicines more effectively. A good example to learn from could be Bayer's successful launch of its anticoagulant drug Xarelto. Its once-a-day dosing compared with twice-daily Boehringer Ingelheim acted as a differentiation factor and rapidly paved a path for it to become a market leader. (bain & company)

A second important success factor is conducting post-launch studies to close any remaining gaps in data and ensure superior data quality over competing products and new entrants. High-quality data, in turn, enhances market access. Organising post-launch evidence-generation plan in place about a year before launching the actual product generates a steady stream of data that supports the product's efficacy.

Similarly, in order to lead the pharmaceutical sector, TPID must build customer advocacy through superior customer experience. Physicians today consider a much wider set of factors beyond clinical data when deciding which drug to prescribe, including clinical protocols, drug price, the type of patient to whom a drug can be prescribed, and overall treatment regimen. And these physicians are rapidly shifting to broader array of information sources, especially online sites and peers.

According to a research done by *Bain & Company*, a global management consultancy, at least 40% of physicians' brand preference is attributable to customer experience factors beyond the product, including, for example, how well pharma companies support physicians by providing answers to medical questions, identifying patients, and connecting physicians with peers. Many pharma companies, however, focus their advocacy activities on the most influential physicians in a given field—the key opinion leaders—and miss the opportunity to create advocates among the day-to-day prescribers. TPID should especially avoid these minor errors that could potentially limit their consumer group and prevent them for getting a strong grip over the medication market in Rwanda.

Within TPID, the leadership team can start to analyse their road to success by posing the following questions:

- How did our last three launches perform vs. expectations, and what were the reasons for underperformance or overperformance?
- Have we identified all potential differentiation areas of our drug and incorporated them into our messaging?
- Which interactions matter most for our target physicians, and do we provide a superior customer experience?
- What are the three largest internal challenges the launch team faces, and what would it take to eliminate them?

# 4. Summary and Conclusion

# 4.1 Risk Analysis

	Insignificant	Minor	Moderate	Major	Catastrophic
Rare (<3% Chance)					
Unlikely (3%-10% Chance)		Restrictive Practices, Technological Barriers			Insufficient Communication Technologies
Moderate (10%-50% Chance)				Corruption	Legislative Compliance
Likely (50%-90% Chance)		Political Differences	International Cultural Differences	Governance and Organisational Structural Differences, Differing Priorities of Stakeholders	
Certain (>90% Chance)			Competition		

Risk	Likelihood	Impact	Score (Likelihood x Impact)	Action Taken
Corruption	3	4	12	5
International Cultural Differences	4	3	12	2
Governance and Organisational Structure Differences	4	4	16	3

Restrictive Practices	2	2	4	1
Legislative Compliance	3	5	15	4
Competition	5	3	15	2
Technological Barriers	2	2	4	3
Political Differences	4	2	8	1
Differing Priorities of Stakeholders	4	4	16	3
Insufficient Communication Technologies	2	5	10	4

#### 4.2 Recommendation

TPID should come up with a project management team and an appropriate project plan immediately. Devising an efficient plan to continue this project is the most essential step for its success. This will not only reduce complications in the later stages of the project, but also be useful to guide both project execution and project control. Project plans could be of assistance for a wide range of tasks including the documentation of blueprints, facilitation of communication among the project stakeholders, recruitment of labours and other employees, identification of a proper organisational structure, and the selection of the variety of products to be manufactured.

In order to minimize conflicts with stakeholders and have a healthy relationship with them, the high-ranking management or board of TPID should consult with at least one representative from every hierarchy or department within the project. They should analyse what is important for certain groups within the organisation and make sure that any decisions taken do not adversely affect these interests. Furthermore, inviting stakeholder representatives to presentations, involving them as much as resources allow, and including them in the decision-making process tends to strengthen the relationship between stakeholders. Arranging regular meetings to track the progress of the project and address certain problems employees might be facing could be a huge source of motivation for the employees. Boosting their morale will significantly skyrocket their productivity and get things done faster and with ease. However, it is important to beware of other negative stakeholders passing wrong and demotivating information to others. Dealing with these members of the project will reduce the level of toxicity and maintain a friendly working environment. The management could seek the opinions of these people and discuss why their opinions might not be of the best interest for the project.

Anyways, the main act is to look after the stakeholders and counter any negative influence others might have on them. This way, there will be no lack of investment during

peak times, consistent support will inspire workers to give their best, and the process of project implementation can be accomplished with ease.

Now, regarding an appropriate structure to be practiced within the TPID manufacturing site in Rwanda, a Matrix structure would be the way to go. Problem with a hierarchical structure might be that the feeling of authority might get on the heads of the project management team while lower-level workers could suffer from imposter syndrome. This might result in lack of collaboration, management might become obsessed within their departments and become ignorant regarding the progress made by other groups, and a lot of bureaucracy could be commenced. Additionally, we have already discussed the devastating consequences that improper communication carries. Moving forward with a hierarchical structure could lead to just this. Some workers might avoid communicating at all because they distrust the leaders of the organisation. This spreads negative energy within the workplace.

When a manager is not available within the hierarchical organizational structure, there is a void that must be filled for the benefits of this structure to be maintained. If a manager doesn't fill this void, a team member will often try to step into the role, and this change in leadership can cause confusion.

Applying a matrix organisational can solve all, if not most, of these issues. The problem associated with the absence of a manager is automatically solved because within a matrix structure, employees report to two or more managers/leaders of their particular team rather than one manager who overlooks every aspect of the project altogether. This will help employees develop a tight-knit relationship with their respective team leaders, adapt to their working styles, and even in their absence, carry out their tasks with utmost precision. Similarly, in a country like Rwanda where the primary language spoken is Kinyarwanda, matrix structure becomes even more appealing. There might be employees who are comfortable speaking only English or only Kinyarwanda. Therefore, if a language expert is appointed to each functioning team, the barriers for communication could be shattered and tasks could be carried out without any hindrances. Team members reporting the project progress to the team leaders and team leaders discussing this progress with the project managers makes the communication process in a matrix structure extremely efficient. There's no loss of information and orders can be given and executed without the fear of being autocratic or too dictative. This way, employees will have much more autonomy and input in projects and this encourages employee contribution and places value on workers' points of view.

A matrix structure allows project managers to work in the areas of their expertise rather than being pulled across multiple projects, boosting the overall contribution of their talents. This allows resources to be utilized to their fullest because of how resources are shared across each functioning team. Furthermore, being exposed to a specialized team where various actions are being executed simultaneously can increase employee development and enhance their professional skills.

#### 4.3 Conclusion

Constructing, validating, and operating a complex manufacturing facility in Rwanda is by no means a task too demanding to accomplish. There certainly will be walls of challenges to phase through, but in order to succeed in a project of this magnitude, these challenges shouldn't be the reason to stop. Once a proper project management plan is put into place and adequate workers are employed to commence the execution, there should be no reasons to halt the progress. As this project is being carried out in a different country than the UK, it is important to understand the culture and learn the best ways to communicate within the company structure and with stakeholders. Delving deeper into the legal aspects of the project, researching similar projects/pharmaceuticals already established, and identifying the best sources of marketing within the new business environment is also recommended.

#### 5. References

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