

USAID GLOBAL HEALTH SUPPLY CHAIN PROGRAM Procurement and Supply Management

Modelling the Case for Hormonal Contraceptive Manufacturing in Sub-Saharan Africa

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Project Background





• Warehouse



Operating Costs: Key Assumptions



Revenue Assumptions (Base Case)

Market Share

- Subcutaneous form takes 50% of total Medroxyprogesterone Acetate 150 mg/mL, intramuscular injection (MPA-IM) demand; factory only makes vial
- South Africa
 - 30% tender (National Dept of Health allocation formula)
 - 20% private (historical analogues)
- FP2020 SSA countries
 - Donor + Subsidised: 20%
 - Non-subsidised: 12%

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Price

- Donor + Subsidised
 - UNFPA catalogue price
- South Africa Public Sector
 - Price to achieve 30% volume versus 2021 tender price
- South Africa private sector
 - 20% discount to current MPA-IM Single Exit Price
- FP2020 Unsubsidised
 - Average wholesale sale price for Kenya

Stand Alone Facility – Profitability



*Assumed 10-year term; Ethiopian Development Bank (DB) will offer up to 20 years

Shared Facility - Profitability



*Assumed 10-year term; Ethiopian DB will offer up to 20 years

Summary and Conclusions

- A stand-alone facility is likely not feasible
 - $\,\circ\,$ Would not be able to pay off loan within a 10 year term
- A shared facility is likely feasible
 - Profits are sufficient to withstand changes to key assumptions.
- Key points not addressed in this business case are:
 - Challenges in accessing foreign currency to pay for Active Pharmaceutical Ingredient, Excipient and packaging imports
 - \circ Risk of expropriation or of instability in the selected country of manufacture
 - Potential expansion of subcutaneous presentation of MPA (MPA-SC) into South Africa or further reductions in donor prices paid in FP2020 Sub-Saharan African countries
 - The availability of matching funding (i.e. banks require ~50% co-investment)
 - The availability of a willing manufacturer to share facility/technological expertise
 - Expansion and sales beyond Sub-Saharan African FP2020 and South Africa
- In summary, manufacturing of an injectable contraceptive in Sub-Saharan Africa may be possible under certain conditions and further investigations with local manufacturers and development banks may be appropriate

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