

SABS_S&L Project Update

14 November 2019



1. Geyser Lab Upgrade Project
2. Lighting Lab Upgrade Project
3. Geyser Lab
4. Refrigerator Lab
5. Cooking Appliances Lab
6. Dish washers Lab
7. Laundry Equipment Lab
8. Energy Efficiency Training by VDE
9. SABS Model for Developing LAB Testing Capability
10. END - Q & A

PROJECT DEVELOPMENTS

Project scope:

- Increase testing capacity by a factor of 25%
- Reducing testing turn-around-times by a factor of 50% *(8 to 4 testing weeks)*

Issues:

- Company tax problems with the sole bidder on first two tenders published by the SABS
- 3rd tender process sole bidder tax problems with SARS cleared
- Conflict of interest with the winning bidder established by the SABS audit review
- Winning bidder was employed by the UNDP to develop project specification for SABS *(Winning bidder disqualified)*

Developments:

- New project specification developed by the SABS and also eliminating the constraining tender review criteria *(bidder membership with instrumentation alliance)*
- SABS Procurement went on open tender for the 4th time in October 2019
- Tender closed on the 31 October 2019
- Only two bids received and following SABS tender review process
- Tender process envisaged to conclude by January 2020

PROJECT DEVELOPMENTS

Background:

- Project looking into testing for LED lighting technology
- 20% investment on safety testing scope completed by the SABS (*Photobiological UV equipment*)
- UNDP commits to funding 66.7% capital investment to fully capacitate laboratory (*Theo to update*)
- SABS has gone out to tender on the balance capex assets and awaiting order deliveries

Developments:

- Positive industry interest received on news of the SABS plans to building capacity in the SSL testing space
- *SABS attended the “6th Meeting of BRICS Solid State Lighting Collaboration Working Group” held in Beijing*
- *China leading with the roll-out of switching over to SSL/LED type lighting*
- *Testing and regulation under development for all BRICS countries (SA may be the first to conclude on regulation)*
- *Partnership, testing research collaborations under discussion to help expedite testing development for BRICS*

TESTING STATUS:

- Test capacity: 3 tests in parallel
- Optimal test capacity: 4 tests in parallel *(subject to geyser lab project upgrade)*
- Current average test duration: 8 weeks
- Optimal average test duration: 4 weeks *(subject to geyser lab project upgrade)*

Development:

- The NRCS has stated enforcing the regulation VC9006
- Big issue on customer failure to submitting samples complying requirement to qualify for testing, however,
- NRCS working on closing these gaps with the SABS

We are open to receive more tests requests in this LAB

TESTING STATUS:

- Test capacity: 8 tests in parallel
- Current average test duration: 3 weeks

Development:

- Test area very sensitive to power stability and with municipality issues in: quality of supply, cable thefts, load-shedding do compromise turnaround time commitments
- Procurement process into the installation of the generator and UPS system underway

We are open to receive more tests requests in this LAB

TESTING STATUS:

- Test capacity: 4 tests in parallel
- Current average test duration: 2 weeks

Developments:

- First report issue in the space October 2019
- Engaged the NRCS to confirm acceptance of report to ensure no comebacks of the report submission
- Current position, we have no WIP in the lab at the moment

We are open to receive more tests requests in this LAB

Testing Status:

- Test capacity: 2 tests in parallel (*2 sets for reference units*)
- Estimated average test duration: 2/3 weeks

Issues:

- VDE has advised of the need of water process plant to process water hardness and by standard, water hardness need be tested twice a day (*at the moment this verification is done through the SABS water Lab reported once a week*)
- Poor testing process design, very human intensive at least 5 personnel required to test one unit (*2 x Graduates mission critical resources to assist close the man-hour issue underway*)

Development:

- Capex motivations to fund project underway going through SABS DoA

We are NOT yet ready to receive tests requests in this LAB

Testing Status:

- Test capacity: 4 tests in parallel
- Estimated average test duration: 2/3 weeks

Issues:

- VDE has advised of the need of water process plant to process water hardness and by standard, water hardness need be tested twice a day *(at the moment this verification is done through the SABS water Lab reported once a week)*
- Poor testing process design, very human intensive at least 5 personnel required to test one unit *(2 x Graduates mission critical resources to assist close the man-hour issue underway)*

Development:

- Capex motivations to fund project underway going through SABS DoA

We are NOT yet ready to receive tests requests in this LAB

High Level Training Scope:

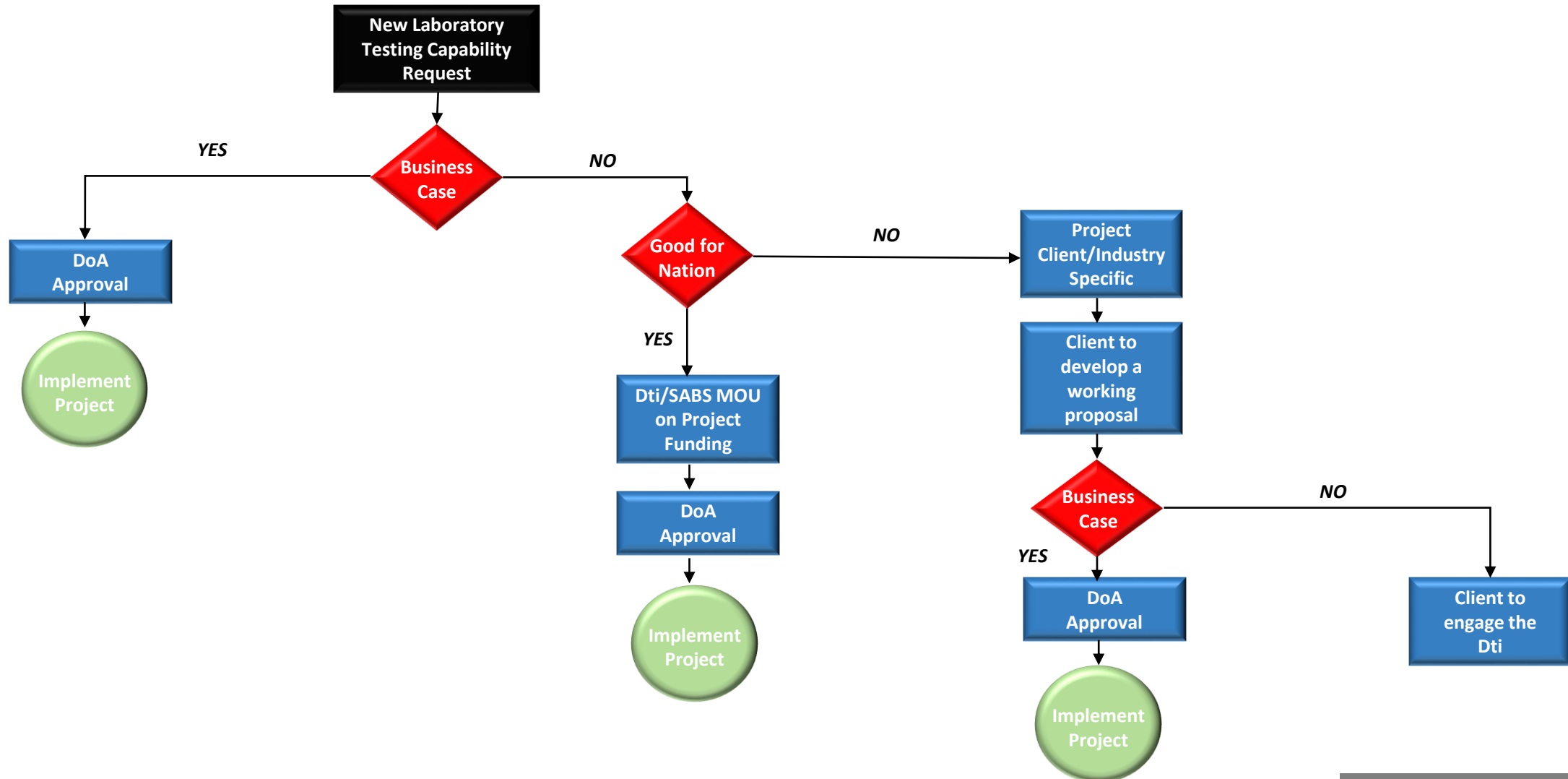
- Evaluation of SABS testing capabilities and capacity in the EE testing space
- Close gaps on understanding and interpretation of standards by testing staff
- Help streamline testing methods as well as test processes

Training Plan/Structure:

- Session 1: VDE project lead evaluates all SABS processes/Labs and use info to structure training focus points *(Aug 2019)*
- Session 2: VDE associated space test specialist visits the SABS facility to conduct training *(Dec 2019)*
- Session 3: SABS testing staff visits VDE (Germany) facility for further training *(Jan 2020)*

Session 1 Outcomes:

- Confirmed major man-hour gap *(improvement through appointment of Graduates started)*
- Capex process started to close gap on water treatment system/plant
- Need to invest in localize lab condition system as well as UPS systems to the EE labs



SABS

THANK YOU!

SABS