

# TECHNOLOGY DEVELOPMENT BOARD

## Supports

M/s Salcit Technologies Private Limited,  
Hyderabad

For  
Commercialization of "kAs,  
a screening and monitoring tool for COVID  
19"



### Symptom Survey

Self-declaration of symptoms  
& medical History

### Lung Assessment

Audiometric analysis of cough  
sounds using ML/AI

Agreement signed on 11.12.2020

M/s Salcit Technologies pvt. Ltd., Hyderabad has developed a patented Swaasa™ AI platform, which is a Point-of-care technology to assess user's respiratory condition. The platform analyzes cough signals, provide an assessment using proprietary ML and AI algorithms. The platform identifies underlying respiratory condition (yes/no), the pattern (obstructive, restrictive, mixed or normal) and its severity. It uses cough analysis as an additional factor in the risk assessment. Subject to coughing into the mobile application kAs, send cough sound and symptom data to AI platform Swaasa for analysis. The platform receive inputs from mobile or web client, process the data and returns the prediction and detailed analytics as output.

The core technology has been enhanced to provide risk assessment for COVID-19. This can be used as an auxiliary to Rapid Test. The technology enables direct read into lung assessment backed by a clinical validation. This platform is Sound enough to achieve this functionality without the constraints of cost, location, scheduling, special equipment, and trained personnel.

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