

PROPOSAL

By

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2019

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1. OBJECTIVE:

This is a proposal from *TagHive Inc* to implement the Class Saathi mobile solution across 100 schools in India based on the success of the pilot in 20 schools in Varanasi.

2. BACKGROUND:

2.1 TagHive:

TagHive's clicker solution has been successfully launched in Korea and successful pilot tests have been done in Varanasi earlier this year. The clicker solution is a boundless and recurring learning platform that has the power to increase learning outcomes. This solution was also shown to the First Lady of Korea during her visit to India last year.

2.2 Varanasi Pilot:

TagHive and Progressive Foundation conducted a one-month (Feb. 2019) pilot with over 50 teachers and over 1500 students in 34 schools in Chiraigaon Block of Varanasi district.

For this, 20 schools were selected as experimental group and 14 schools were selected as control group. Nearly 1000 students of 6th standard from these schools were chosen for study. Mathematics and Science were taken as test subjects. For the quantitative evaluation of Class Saathi program, baseline and endline assessment tests were conducted for selected (Both Experimental & Control Group) schools. The assessments were conducted for Cognition and Behaviour.

For details on the outcomes and TagHive, please refer to

Appendix 1: Learning Outcomes

Appendix 2: Attendance

Appendix 3: Ratings

Appendix 4: Images from Pilot

Appendix 5: About the Founder

2.3 Draft NEP (New Education Policy), 2019:

Access, Affordability and Accountability are the three foundational pillars of the draft NEP, 2019. Class Saathi is completely aligned to these pillars. Class Saathi provides easy **Access** of educational content to teachers/students/parents without the need of electricity, connectivity or any such additional technologies. Class Saathi is **Affordable** and ties all key stakeholders such as parents, teachers, principal/administrators, education officers into one thread thus making them all **Accountable** in the students' learning journey.

3. PROPOSED OUTCOMES:

The CCE (Continuous Comprehensive Evaluation) as mandated by the RTE Act requires schools to conduct continuous evaluation by means of small assessments throughout the academic year. The Class Saathi clicker solution will allow teachers to

- Conduct hassle-free formative assessments on a regular basis
- Have access to students' learning outcomes in real-time
- Create lesson plans in accordance with student learning needs
- Identify slow learners and suggest remediation

Apart from the aforementioned, the Class Saathi solution will also help with the following

- Tracking attendance
- Decreasing drop-outs
- Increasing parental engagement in student's learning

4. SCOPE:

The scope of this proposal extends to but is not limited to 100 schools across various blocks in Varanasi.

5. KEY DELIVERABLES:

5.1 Key Deliverables: TagHive

TagHive Inc. is the technology provider is responsible for the -

1. Provision of the Class Saathi mobile app solution
2. Provision of the hardware 'Clickers'
3. Training to the on-field implementation staff

6. COMMERCIALS:

The clickers are currently priced at \$400 for 40 clickers . This is a one-time cost and includes the software, content and one-time training cost.

Appendix 1: Learning Outcomes

A gradual shift was observed in a number of students with below average/average performance to above average/outstanding performance after the Class Saathi technology intervention in both the subjects

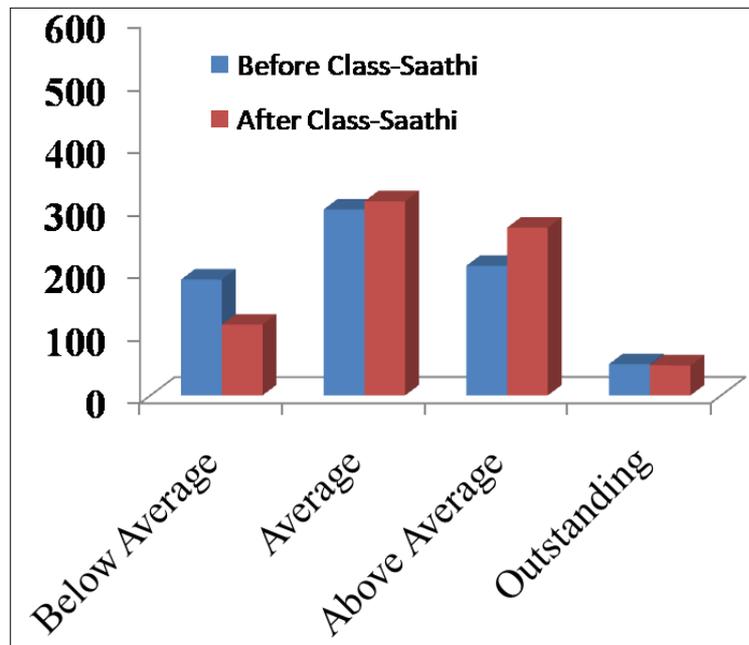


Figure 1: Learning Outcomes for Mathematics

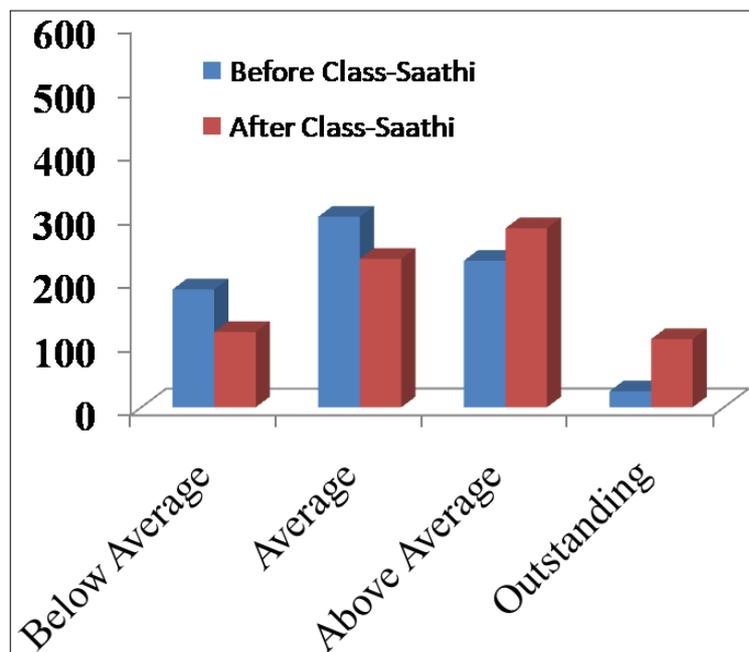


Figure 2: Learning Outcomes for Science

Appendix 2: Attendance

- Attendance of students was carefully observed for a period of six months (September to February) for both experimental and control group of students.
- Percentage of attendance from September to February in both the experimental and control group has been plotted for a quick comparison.
- Careful inspection of data revealed that **there was a 10% increase in attendance** in the month of February, after the intervention of Class Saathi program in experimental group schools.

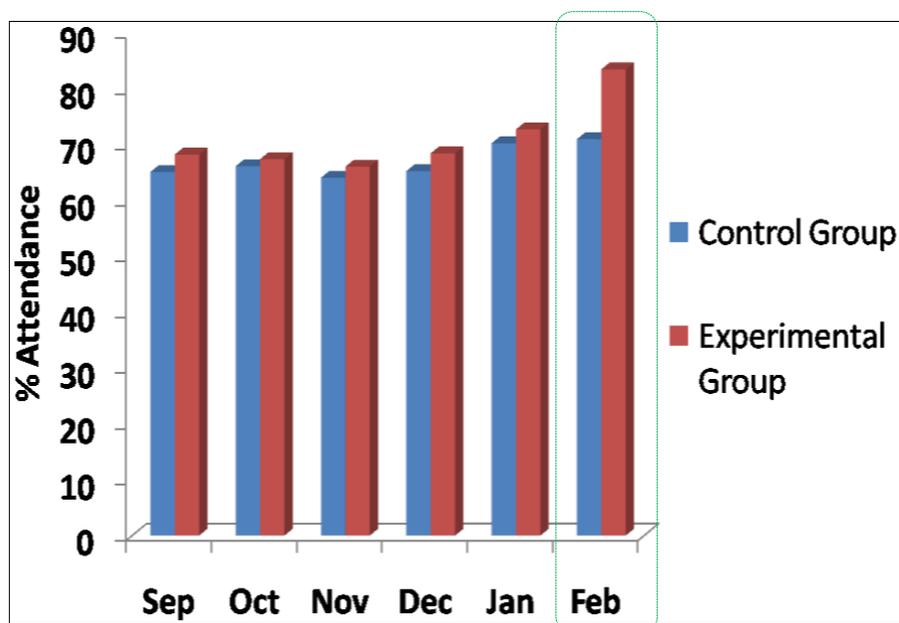


Figure 3: Attendance

Appendix 3: Ratings

Principals and Teachers were asked to rate the Saathi app on a scale of five. They have rated the Saathi app based on various aspects which might help them in teaching as well as for the overall educational development of the students.

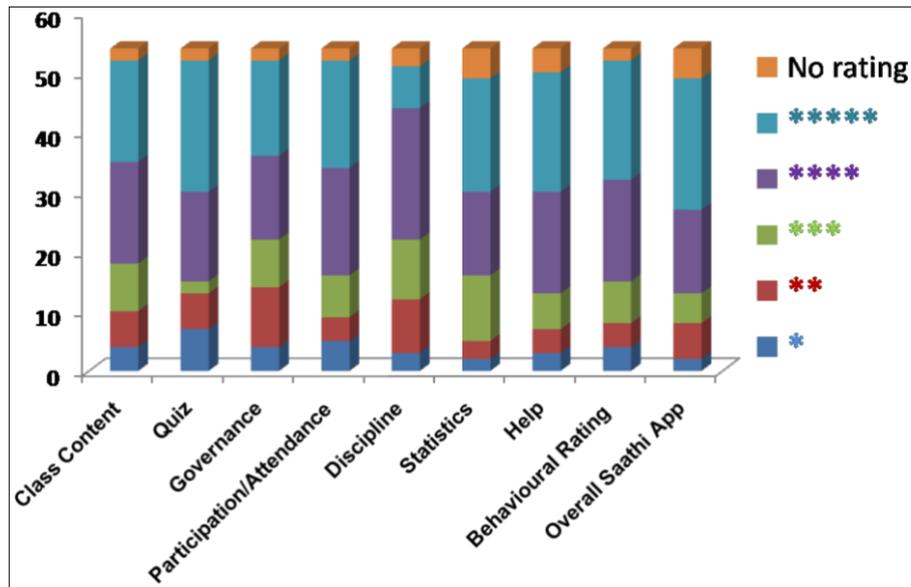


Figure 4: Ratings on a scale of 5

Appendix 4: Images



Figure 5: Class Saathi - Hand Held Remote & Smart App for Teachers/Parents



Figure 6: Class Saathi pilot pictures

Appendix 5: Founder Biography



SUMMARY:

Mr. Pankaj Agarwal is the CEO at TagHive - a Samsung spin-off on a mission to make kids play and learning experiences more creative, social and fun. He is an inventor on over 50 international patents and was selected as one of the Top 10 Innovators in India in 2017 by MIT Technology Review.

Prior to TagHive, Mr. Agarwal was with Samsung Electronics where his decade long career spanned across several professional capacities – hardware circuit engineer, strategic innovation manager, and an advisor to the CTO of Samsung.

Mr. Agarwal is also the founder and Chairman of the IIT Alumni Association of South Korea. He is also a trained magician and is fluent in Korean. He has a Bachelor of Technology degree in EE from IIT Kanpur, MS from Seoul National University and an MBA from the Harvard Business School.

MISSION:

To leave behind a legacy for future generations. I believe we are all guests in this world, and that we are here for a purpose. I would like to contribute my bit in making this world a better place.

CAREER HIGHLIGHTS:

- Inventor on 50+ International Patents
- Winner of KOICA's CTS Program in 2018

- Winner of MIT Technology Review's "Top 10 Innovators (INDIA) Under 35"
- Chairman of IIT Alumni Association in South Korea

EXPERIENCE:

'17.04 ~ Now *CEO & Co-Founder, TAGHIVE* [Samsung Spin-off, www.tag-hive.com]

- Leading a team of 6 to boost kids' play and learning experiences
- 18 IPs filed, 7 registered patents, 2 Products Commercialized and 2 more in pipeline

'16.01 ~ '17.03 *Creative Leader, SAMSUNG ELECTRONICS*

- Led TagPlus Project: an IoT (Internet of Toys) solution for kids – **Launched in CES 2017**

'14.05 ~ '15.12 *Advisor to the Chief Technology Officer, SAMSUNG ELECTRONICS*

- Worked directly with the CTO to advise him and his team of executives on R&D typologies, portfolio management & world class talent management
- **Led the set-up of Advanced R&D labs for Samsung in South West Asia Pacific Region;**

'12.06 ~ '14.04 *Manager, Future Innovation Team, SAMSUNG ELECTRONICS*

- Pioneered NODE (~\$1M project), an open innovation program
- Proposed, led the set up and ramp up stages of award winning Samsung FARM - a rapid prototyping facility that turns ideas such as "flying TV" and "under-water display" into reality in less than 48 hours;

'06.08 ~ '10.06 *Engineer, SAMSUNG ELECTRONICS*

- **Filed 10 patents** spanning fields such as circuit topologies, wireless power transfer, and 3D technology; also received **Value Engineering Black Belt certification**

EDUCATION:

'10.09 ~ '12.05 **HARVARD BUSINESS SCHOOL**

MBA degree, Fully Sponsored by Samsung – First international employee to receive this honour

'04.09 ~ '06.05 **SEOUL NATIONAL UNIVERSITY**

Master of Science degree in EECS

'04.09 ~ '06.05 **INDIAN INSTITUTE OF TECHNOLOGY, KANPUR**

Bachelor of Technology degree in Electrical Engineering