Implementation of 'Rashtriya Avishkar Abhiyan' (RAA) in Uttar Pradesh

'Rashtriya Avishkar Abhiyan' (RAA) is an initiative by MHRD, Government of India which aims at making learning of Math and Science subjects easy and stress free. States have undertaken many initiatives which have not only helped in improving the attendance but have also lead to migration of students from Private to Government Schools.

In the upper primary school of Sabda, Pata and Biriya villages in Auraiya district of Uttar Pradesh the students love to come to school and hardly ever miss any class. Attendance of each student is very high and consistent, which is quite a significant improvement in itself. On any given day the students in this school are involved in many engaging activities and experiments relating to daily life. The teachers use state of the art Teaching Learning Methods (TLMs) and techniques to drive enquiry based learning in students. The school has low cost solar powered smart classrooms. Lectures in these schools are conducted through Audio / Visual content being displayed using projector. It develops curiosity amongst students and confidence to ask question. The effect of such change is significant.

The exciting part is that students have left nearby private schools and other govt. schools to join these schools in Sabda, Pata and Biriya villages just because of 'RAA' initiative.

This is not just the story of school in Sabda, Pata and Biriya village, but 27 other schools in Auraiya district which have taken up 'Rashtriya Avishkar Abhiyan' (RAA).

Teachers of Sabda, Pata and Birya villages (Ms. Archana, Ms. Mamata and Ms. Abha) and 27 other school teachers from Auraiya district were trained and counseled twice in academic year 2015-16 in 3 day residential training. The teachers were trained in Science, Mathematics and child psychology by Prof H.C. Verma (nodal officer RAA, UP) and his team (UNISED).

The teachers were introduced to latest tools and techniques of learning/teaching in these sessions. Teachers were given hands on experience to many activities that will be directly helpful for them in classroom teaching. Each school was also provided Science and Mathematics Learning Resource kit (developed in IIT Kanpur), so that teachers can actually include many activities and experiments in classrooms teaching. Audio/Visual content was supplied monthly to each school depending on the status of curriculum in every school.

Solar Energy Operated Based Smart Class (Technology Intervention)

- **Technology Intervention:** LED Projector operation at 60w Power consumption & high luminous at day time
- **Why:** renewable energy for imparting Education
- **How:** Using portable solar panel
- **Why portable:** Easy to keep , maintain and to minimize risk of theft
- **Why Solar Energy:** Maximizing outreach specially rural area schools where continuous electricity is an issue
- **Future Monitoring:** A register for SMC to check on weekly basis whether equipments are used or not
- **How:** Orientation of SMC members by the teacher who are trained by the trainers at IIT Kanpur
- **Audio/Visual Content:** Not replacement of teachers yet capacity building of teachers. Motivation for teachers & students technology /innovation in education at rural level