



TAMRALIPTA MAHAVIDYALAYA

[ESTD – 1948]

NAAC Accredited 'A' Grade College

DST-FIST & DBT Boost Recipient College

Tamluk, Dist. Purba Medinipur, West Bengal, Pin. 721636

ISO 9001:2015 Certified College

Criterion 7 - Institutional Values and Best Practices

Key Indicator - 7.2 Best Practices

7.2.1. Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual

Additional Information

The given documents and data are correct and true to the best of my knowledge.

Principal
Dr. Abdul Motin

Best practice – I

1. Title: Conservation of Biodiversity and Development of Eco-friendly Campus

Keywords – Conservation, Biodiversity, Eco-friendly campus

2. Objectives

- **Conservation of the flora and fauna** within college premises.
- Formation a **checklist of flora and faunal** resources within campus.
- Development of special strategies to **conserve the wild animals** with college campus.
- **Plantation of more Trees and Vegetation** to increase green covering area.
- **Conservation of water resources** and proper caring for them.
- Development of **plastic free, non-convectional energy based eco-friendly campus**.
- Development of **awareness about the significance of biodiversity conservation** among faculty member, students and staffs.

3. The context:

Biodiversity is the wide variety of ecosystem, living organisms, animals, plants, their habitats and their genes. Biological diversity is vital to biosphere health, stability and proper functioning. It also plays important role for human race as it provides food, medicine etc. to them. Rapid urbanization, unsustainable consumption of natural resources and destruction of wild life are directing biodiversity under great threat. Loss of biodiversity is serious irreversible phenomenon. The onset of biological poverty or reduction in diversity is bound to have consequences for entire living world. So conservation of biodiversity must be treated as obligatory. So considering the urgent need for conservation of biodiversity, Tamralipta Mahavidyalaya has taken active steps to imbibe care and nurture the biodiversity within college campus and also in adjoining localities.

4. The Practice

1. **Floral and faunal diversity** within the college campus has been **documented** and special efforts have been made to conserve this diversity.
2. **Aquatic bodies** within the campus are maintained properly.
3. All the wild animals including **threatened species like *Varanus salvator***, conserved specially in a planted wetland area.
4. A **new medicinal plant garden** has been established within the college.

5. A **threatened species plant** garden is also established adjoining to the medicinal plant garden.
6. **Mangrove plants** have been planted on the bank of the Rupnarayan River to restore mangrove ecosystem.
7. People **Biodiversity Register** of the Tamralipta Mahavidyalaya has been prepared by the help of the faculty members and also students of Zoology & Botany Department of the Tamralipta Mahavidyalaya.
8. **World Environmental Day** has been observed on 5th June every year by the IQAC, NSS Units and Swachhta Action Plan (SAP) of the college through day-long activities.

5. Evidence of Success –

1. Tamralipta Mahavidyalaya has established a centre for **Biodiversity Management committee (BMC) in collaboration with Tamralipta Municipality and West Bengal Biodiversity Board.**
2. Students of Department of Zoology and Botany have prepared a **checklist of flora and fauna within the campus.**
3. A **medicinal plant garden and threatened plant garden** has been established at a special zone within the college campus.
4. There are some ditches of water and a large pond within campus mentioned property to **conserve aquatic animals.**
5. A fragment of the college area harbouring a **dense forest is devoted for the wild animals like *Varanus salvator* (IUCN Red Listed Threatened Species), Common Mongoose (*Herpestes edwardi*) (under schedule – 3), the Bengal fox *Vulpes bengalensis* (schedule – 2).** No person is not allowed to enter in this zone.
6. A **Special Campus Cleaning Programme** has been organized by NSS unit of the college as part of students' week celebration during first week of January each year.
7. The college **campus has been declared plastic free zone**
8. **New plants are planted in every year to increase green** covering within the campus as normal practice.

6. Problem Encountered and Resources Required

. All stakeholders would be equally conscious about the need of biodiversity conservation and creation of green campus. So, more efforts are requested for proper resources mobilization and development of eco-friendly campus.

Best Practice – II

1. Title of the practice – Inculcation of Scientific Temper and Multidisciplinary Research Activities among faculty members and students.

Keywords - Scientific Temper, Research, faculty members

2. Objectives

1. Development of **scientific temper** among students.
2. To nurture the **spirit of independent research activities** in the young learners.
3. Application of **scientific consciousness and logical thinking** among students.
4. Encouragement the students in **innovation thinking**
5. Involvement of the students to **solve the problems associated with the resource management.**
6. Conduct research activities regarding **socio-economic need.**
7. Conduct multidisciplinary research for the **betterment of the livelihood of marginal communities.**
8. To increase scientific awareness among students so as to develop a **better stable society.**

3. The Context:

One of the cornerstones of academia is a constant spirit of inquiry that leads one to delve deeper and deeper into the sea of knowledge and research can be posited as the best possible method of doing the same. Scientific knowledge and awareness among the student population leads to develop a better society that would be free from prejudice and illogical thoughts. Students coming from different socio-economic background would be involved to solve different problems in scientific way.

4. The Practices:

The institution has constituted Research Cell under the able guidance of senior faculty members for the promotion of research culture in the staff and students. Faculty members are encouraged to participate and present their research papers in National and International Conferences/Seminars/Workshops/Symposiums for which the **college provides duty leave and financial support in the form of reimbursement** of cost they incurred. Faculty members are

motivated to apply for research grants to different funding agencies. Developing research skills is given a lot of emphasis in the institution. To encourage and advance research temper in young students research workshops/ certificate courses are undertaken. The college provides **computing and internet facility, e-journals and INFLIBNET** for research scholars and teachers. The library provides internet facility to the students to all students and faculty members through **WiFi and Broadband connection**. Experts from academia are invited for lectures to guide the students on the ongoing developments in the field. The staff academy constituted in the institution conducts lectures for the faculty to expose them to the new. Apart from those activities the college organizes various inspiring program such as:

- Tamralipta Mahavidyalaya celebrates **National Science Day every year on 28th February**. The key note speaker describes the life and works of Sir C.V. Raman that inspired the young students and teachers of the college. The themes of the Seminars were as per Govt.'s declarations year-wise.
- Department of Mathematics celebrates the **International Mathematics Day (14th March)** with different themes having key note speaker from different academia.
- Awareness program on '**Oral Health and Hygiene**' organized by the IQAC and Department of Physiology to grow inquisitiveness among the students.
- Different Departments organized seminars on **Recent Developments in Research** throughout the year.
- **Science Model Exhibition:** Science Model Exhibition and competition among neighboring school children held in collaboration with Breakthrough Science Society.
- Free **Thalassemia Test Camp** organized by IQAC, NCC and NSS units of Tamralipta Mahavidyalaya in collaboration with school of Tropical Medicine to grow scientific bend of mind among all.

5. Evidence of Success:

- The **Central Research Laboratory** has been established which involved in multidisciplinary research work for sustainable development.
- **DST-FIST and DBT-BOOST** Grant have been obtained.
- PG students of zoology are actively involved in **field survey, project work** and published their research articles in different reputed journal.
- Faculty members are actively engaged in research work as a result of which (**~12**) faculty members were awarded with Ph.D. degree.
- One **multidisciplinary inhouse research journal** has been published

- Many **research papers (~225 in last five years)** have been published in national and international journals.
- One of our faculty members has been selected as **best researcher in the University and cited his name among 2% best researcher in the world**
- **Many Books based on research outcomes (~330)** have been published

6. Problem Encountered and Resources Required

Financial grant is the main discontent in perusing research work. Chemicals and other contingencies are required constantly for research work. Collaboration with industries and other NGOs is still not possible.

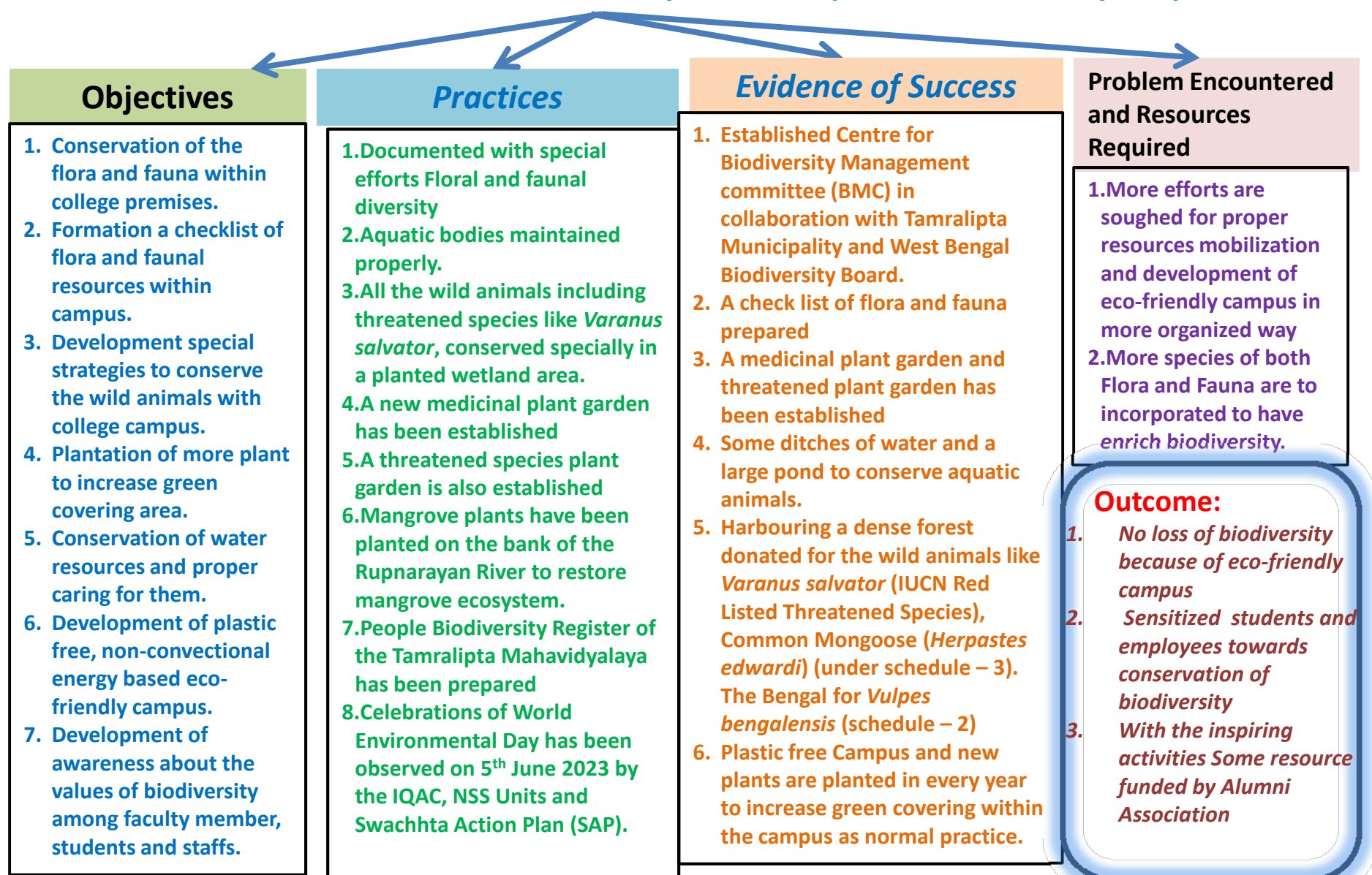
Future plans –(Optional)

1. The IQAC felt the necessity of augmenting infrastructures, mainly classrooms and a separate library in the coming year and recommended to the competent authority for taking up the work as soon as possible. The Governing Body of the college after a threat bear discussion accept the proposal and decided to construct a building (G+5) and in the name of Pandit Iswarchandra Vidyasagar.
2. The college authority has planned to construct a building to satisfy the urgent need for classroom and laboratories.
3. The IQAC of the college has planned to organize more Seminars, Webinars, in different modern topics to promote the research and extension activities.
4. The IQAC has planned to introduce more Certificate Courses regarding different job opportunity.
5. The college authority has planned to introduce more PG courses.
6. The authority has planned to introduce job-oriented professional course like Fishery Science in the college.
7. The IQAC of the college tries to introduce Entrepreneurship in different field in fulfillment of NEP curriculum.
8. IQAC tries to collaborate with NSDL to conduct skill oriented different courses.
9. Introduction of Blended mode of teaching is also for bring interest.

Key Indicator - 7.2 Best Practices

7.2.1: Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual

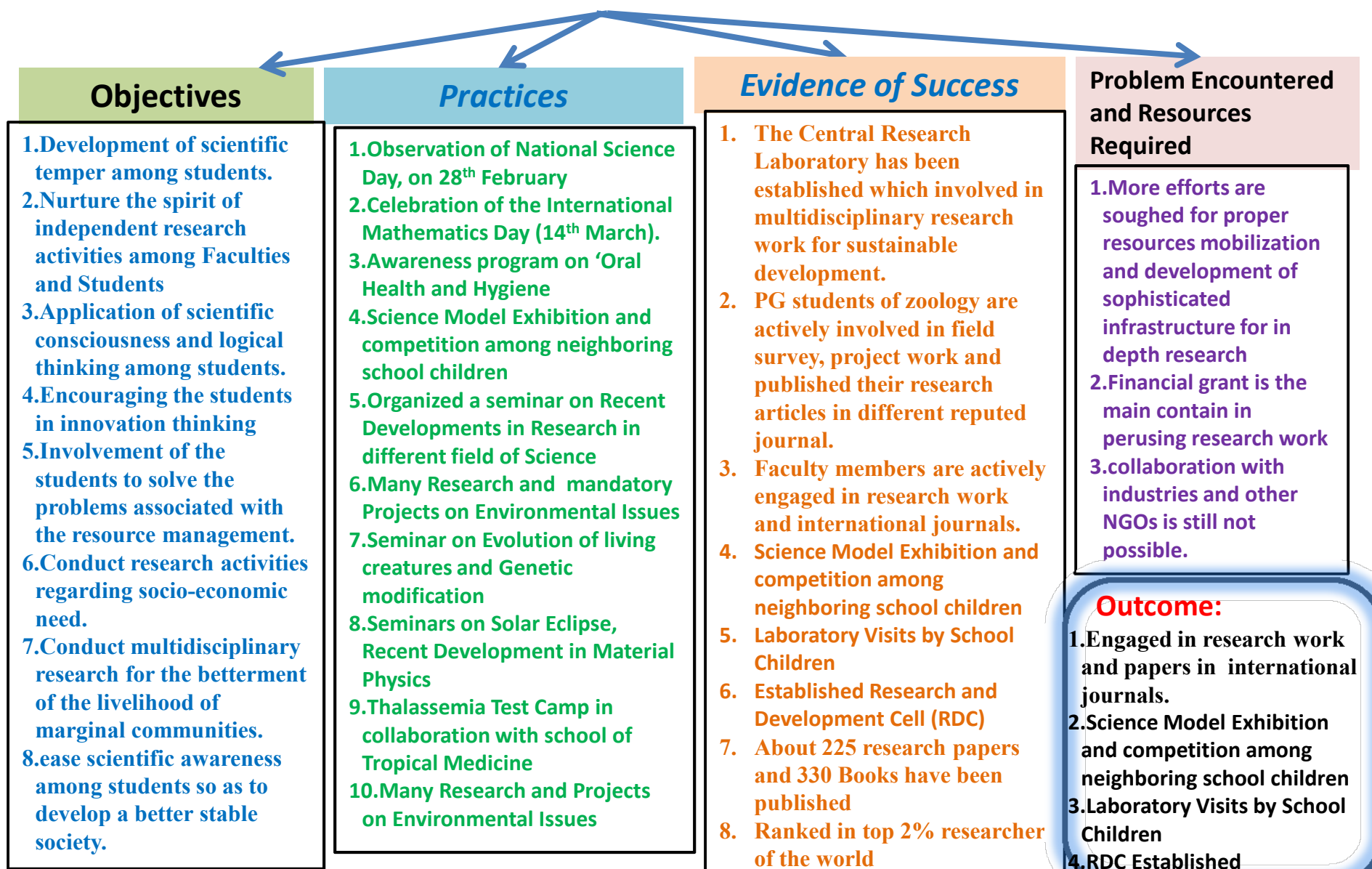
Best practice – I: Conservation of Biodiversity and Development of Eco-friendly campus



Key Indicator - 7.2 Best Practices

7.2.1: Describe two best practices successfully implemented by the Institution

Best practice – II: Inculcation of Scientific Temper and Multidisciplinary Research Activities among faculty members and students.



Objectives

1. Development of scientific temper among students.
2. Nurture the spirit of independent research activities among Faculties and Students
3. Application of scientific consciousness and logical thinking among students.
4. Encouraging the students in innovation thinking
5. Involvement of the students to solve the problems associated with the resource management.
6. Conduct research activities regarding socio-economic need.
7. Conduct multidisciplinary research for the betterment of the livelihood of marginal communities.
8. ease scientific awareness among students so as to develop a better stable society.

Practices

1. Observation of National Science Day, on 28th February
2. Celebration of the International Mathematics Day (14th March).
3. Awareness program on 'Oral Health and Hygiene
4. Science Model Exhibition and competition among neighboring school children
5. Organized a seminar on Recent Developments in Research in different field of Science
6. Many Research and mandatory Projects on Environmental Issues
7. Seminar on Evolution of living creatures and Genetic modification
8. Seminars on Solar Eclipse, Recent Development in Material Physics
9. Thalassemia Test Camp in collaboration with school of Tropical Medicine
10. Many Research and Projects on Environmental Issues

Evidence of Success

1. The Central Research Laboratory has been established which involved in multidisciplinary research work for sustainable development.
2. PG students of zoology are actively involved in field survey, project work and published their research articles in different reputed journal.
3. Faculty members are actively engaged in research work and international journals.
4. Science Model Exhibition and competition among neighboring school children
5. Laboratory Visits by School Children
6. Established Research and Development Cell (RDC)
7. About 225 research papers and 330 Books have been published
8. Ranked in top 2% researcher of the world

Problem Encountered and Resources Required

1. More efforts are sought for proper resources mobilization and development of sophisticated infrastructure for in depth research
2. Financial grant is the main contain in perusing research work
3. collaboration with industries and other NGOs is still not possible.

Outcome:

1. Engaged in research work and papers in international journals.
2. Science Model Exhibition and competition among neighboring school children
3. Laboratory Visits by School Children
4. RDC Established