**DETAILED PROJECT REPORT**

IMPLEMENTATION OF SMART CLASSROOMS PROJECT FOR GOVERNMENT SCHOOLS UNDER PMJVK SCHEME

SUMBITTED TO

SECRETARY

MINISTRY OF MINORITY AFFAIRS

GOVERNMENT OF INDIA

Submitted By:

**Minority Department**

**Government of Tamilnadu**

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1. **BACKGROUND OF PROJECT AND OTHER BASIC INFORMATION**
2. **Title of the Project** – Implementation of Smart Classrooms in Schools under Minority Concentrated Area (MCA) under PMJVK Scheme.
3. **Project Initiator details-**
4. **Department initiating the project** – Minorities Welfare Department, Govt. of Tamilnadu
5. **Implementing Agency:**   **–** TCIL (A Government of India Enterprise)
6. **Project Background**– Government has made several interventions to improve learning of children among Government Schools in Minority Concentrated Areas. The access to primary education, secondary and higher education in the Minority Schools has improved over the past few years. However, there is a need for improvement in the quality of education in the schools define under PMJVK. On the basis of need assessment studies across the country, the key issues and challenges in education can be summarized as under:
7. Low learning levels among the students
8. Need for innovative teaching – learning methodologies
9. High pupil teacher ratio
10. Infrastructural issues
11. Falling enrollment of students
12. Need for continuous and relevant capacity building of teachers
13. Low community participation and awareness towards education

Considering the above educational scenario, the Minority Welfare Department proposes to implement a Holistic Classroom Learning & Improvement programme through implementing Smart Classrooms project in schools under PMJVK Scheme in the Minority Concentrated Area of Tamilnadu.

1. **District wise School list:** As per the Annexure**.**
2. **Abstract of category of schools for proposed project**:

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No** | **Category of Schools** | **Number of schools** | **Number of Units** |
| 1 | Govt. High School |  |  |
| 2 | Govt. Higher Secondary School |  |  |
| **Total** | |  |  |

1. **Justification on the number of Units proposed**

**Government Secondary/ Senior Secondary Schools:** There are total number of ……….. Govt.High/ Higher Secondary Schools under minority concentrated area districts of Tamilnadu.We are proposing three Units in each school depending upon the grades and the number students enrolled in the schools and to provide the optimum opportunity of learning to the students.

1. **PROJECT OVERVIEW**
2. **Identification of stakeholders** – On the basis of the study objectives and parameters, the key target stakeholder groups for the field study include the following:
   1. Minorities Welfare Department, Govt. of Tamilnadu
   2. Principals or Head Masters
   3. Teachers
   4. Students
   5. Parents
3. **Reform area(s) the project is designed to address**–
   1. To revolutionize the teaching process in Government Schools in MCA.
   2. To empower the teachers of Government Schools in MCA.
   3. To support the effective implementation of the program
   4. To make learning more interesting, effective and interactive
   5. Build capacities with in the educational system to ensure larger and more sustainable impact by conducting regular training of teachers to ensure the blended learning.
4. **Outline in broad terms project activities-**

The activities that are proposed to be undertaken under this project are:

1. Survey of the existing infrastructure Government Schools in MCA
2. Providing Innovative Technology Solution for the students
3. Capacity Building of the Teachers on IT Skills and training on multimedia content for smooth functioning of the provided solutions
4. Deployment of Multimedia Content as per the Syllabus
5. Project Management and Support
6. Monitor the delivery of education in schools
7. Setting up of Centralized Control room and Onsite support for IT infrastructure
8. Deployment of Project management Team for the efficient implementation of the product.

|  |  |
| --- | --- |
| **Reform Area** | **Activities** |
| Outcome 1:  **Pre Project-Activities** | Baseline survey of the existing Infrastructure of all the schools |
| Outcome 2:  **Installation of IT and Learning Infrastructure** | Installing of IT and learning Infrastructure in the proposed schools |
| Outcome 3:  **Quality Initiatives** | Capacity Building of Teachers |
| Knowledge Based Classrooms |
| Deployment of State Specific Multimedia Lessons |
| Outcome 4:  **Monitoring** | Deployment of Implementation Team |
| Feedback on Monitoring and Usage Support |
| Submission of reports on Learning outcomes |

1. **PROJECT DETAILS**

The proposed solution aims to achieve the following solution:

1. Introduction of IT Enabled Learning Environment for students.
2. Capacity Building of Teachers on IT Skills & usage of Multimedia Content to ensure holistic learning.
3. Enhancing quality education through Multimedia lessons in Schools through IT Infrastructure.
4. To facilitate Increase in enrollment and retention rate of students in Schools.
5. Building requisite Infrastructure for providing IT skills & Multimedia lessons to the Students.
6. To make overall learning more interesting, effective and interactive.
7. **TECHNICAL DETAILS**
8. **Details of Proposed Technology Infrastructure**

As per the proposed technology infrastructure the following equipments will be installed: The department have identified two available options for Smart Class room.

|  |  |  |  |
| --- | --- | --- | --- |
| **S N** | **Deliverable** | **Option 1** | **Option 2** |
| 1 | IT Infrastructure | **All in One Device – Integrated Teaching Device**  (Combines the functionality of a Computer, Projector, Large Screen TV, DVD Player, Audio System and more into a single unit. It is also equipped with an in-built interactivity feature which converts any wall into an interactive classroom)  **Wooden White Board** | **Interactive Board** - Infrared & Touch Smart Board, Low Reflection 5ft X 4ft with writing board (white/ green) of 5ft X 4ft |
| **Projection System** - 3000 ANSI Lumens DLP/ LCD Short Throw Projector with all accessories and mount kit. |
| **Personal Computer/Laptop**- CPU – Core i3 (6th Gen)/ 1 TB HDD/ 4GB DDR3 RAM/ Windows 10 OS Optical Mouse and Keyboard |
| **Audio System** - Amplified stereo Speakers |
| 2 | Power Back up | Adequate power supply or 1 KVA UPS | |
| 3 | Digital Content | Multimedia Content | |
| 4 | Professional Development | Training of teachers including refresher training | |
| 5 | Project Management | Maintaining the project for the period of 3 years. | |

The specification of All in One Device – Integrated Teaching Device

|  |  |
| --- | --- |
| **Features** | **Integrated Teaching Device** |
| **Display Technology** | SVGA |
| **Projection System** | DLP Technology |
| **Brightness** | 3000 ANSI Lumens |
| **Resolution** | 800 x 600 |
| **Contrast Ratio** | 18000:1 |
| **Lamp Life** | Maximum 5000Hrs |
| **Projection Image Size** | 59-300 inches |
| **Computer System** | **Intel Core i3 Processor with Intel Chipset Motherboard** |
| 4 GB Main Memory |
| 1TB HDD |
| Slim Optical Disc Drive with both read and write capability |
| **Input / Output** | 6 USB Ports |
| Microphone-in |
| VGA Monitor-out for external monitor |
| Stereo Audio-out |
| Headphone (in front) |
| **LAN** | 1xGbps Ethernet connectivity |
| **Audio** | Internal amplifier with 30W audio output, option for connecting external speaker |
| **Operating System** | Windows 10 SL Home |
| **Built-In Virtual Interactive feature** | Image Processing Technology |

1. **PROJECT COST / FINANCIALS**

**Total Project Cost for approval for the Project**

|  |  |  |
| --- | --- | --- |
| **No. of Classrooms** | **Unit Cost** | **Total Cost** |
| ………… Classrooms across ………..Schools |  |  |
| GST Taxes @ 18% |  |  |
|  |  |  |
| Total Budget required for approval in figures |  | |
| Total Budget required for approval in words |  | |

1. **MONITORING AND SUPPORT**

# Projects at any level and at any magnitude require careful planning to ensure success. Project maintenance of would be led by Service Centre/Help Desk at the state level supported by service Engineer’s team. We propose to provide following support during the project period:

# Baseline & Impact Assessment

* 1. Refresher training programmes (annual basis)
  2. Monitoring & Evaluation
  3. Educational inputs
  4. Periodic visits

1. Educational support for 1 year
   1. Content up-grade
   2. Hardware support
2. Technical support for 3 years
3. **EXPECTED OUTCOMES OF THE PROGRAMME**
4. This programme will revolutionize the Teaching Learning Process in the Government Schools in Minority concentrated areas across the State of Tamilnadu
5. It will empower the Teachers of the Government Schools by way of IT Skills Training
6. Improve the interest levels of students in school curriculum and thus increase school attendance and better performance in examinations
7. Improve student and teacher learning and productivity
8. The students shall get equal and quality education on par with private schools.
9. **ANNEXURE -**

List of Schools for Implementation of the Project

**Signature with Date**

**(Block Educational Officer)**