





TIRUPATI SMART CITY

TIRUPATI SMART CITY CORPORATION LIMITED (TSCCL)

Existing Site Conditions

Modernizing MCT Schools as Smart Campus —

"Smart Classrooms"



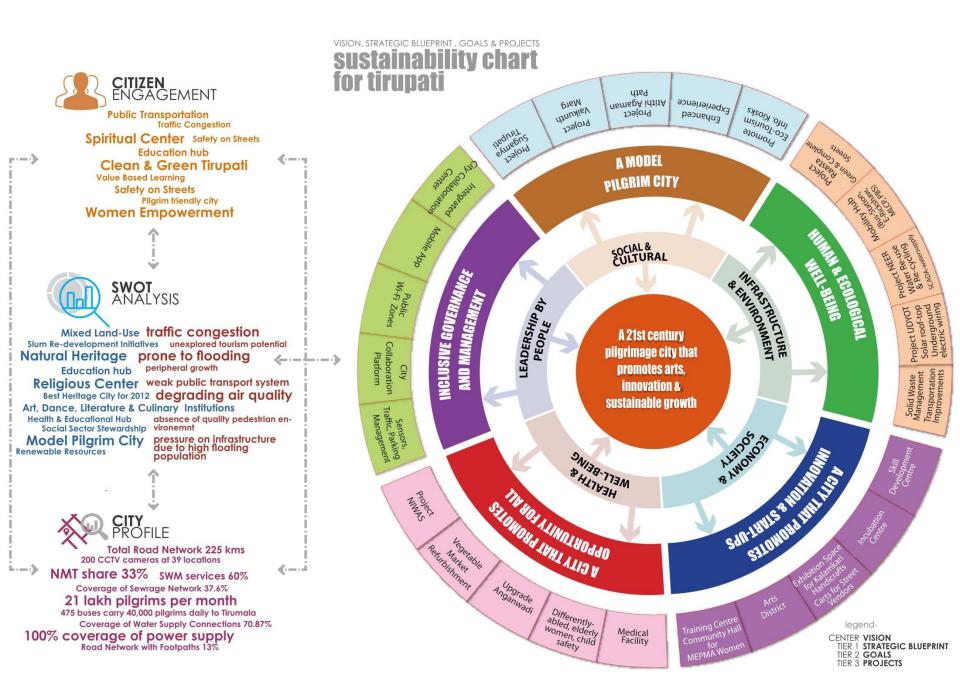
VISION STATEMENT – Tirupati Smart City

A 21st century pilgrimage city that promotes arts, innovation & sustainable growth





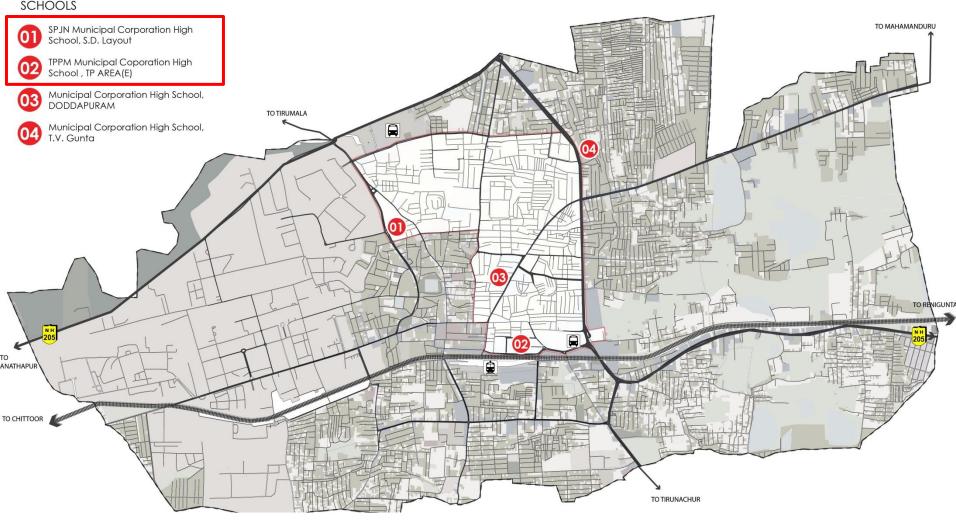
SUSTAINABILITY CHART



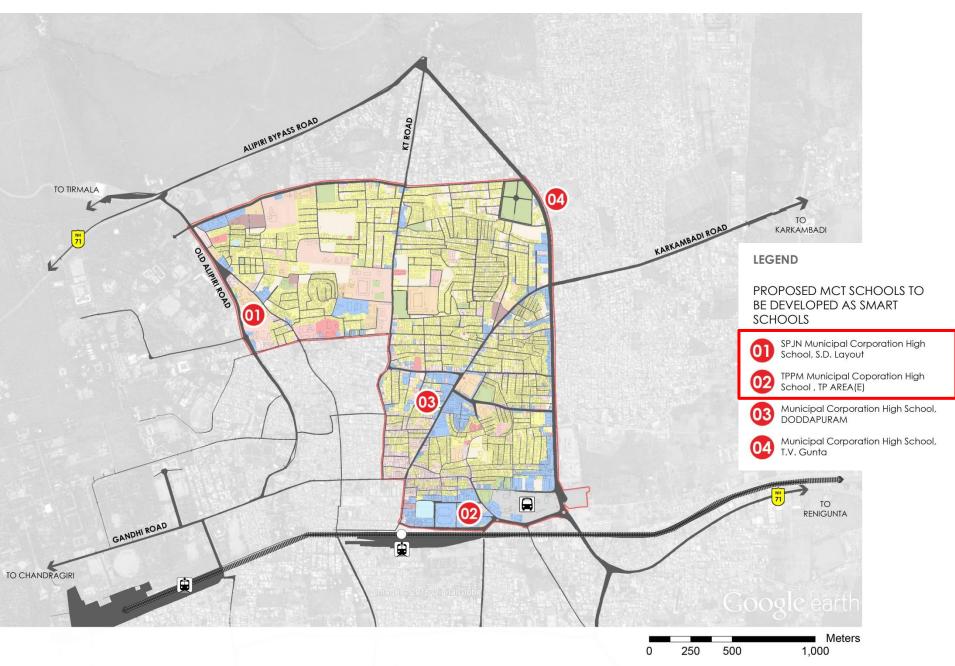
Location of 4 Schools in Context of MCT Boundary

LEGEND

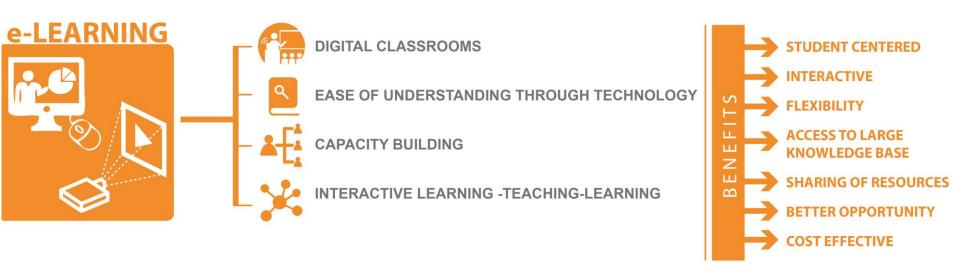
PROPOSED MCT SCHOOLS TO BE DEVELOPED AS SMART SCHOOLS

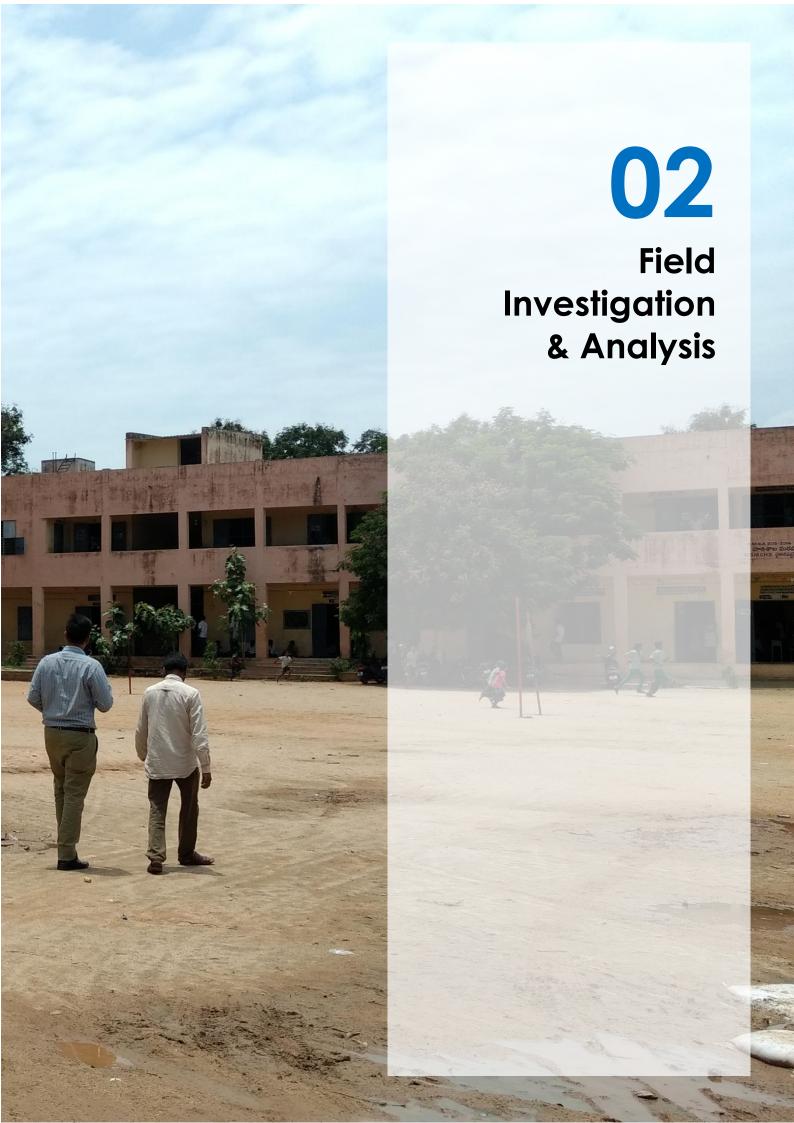


Location of 4 Schools in Context of ABD Boundary



Vision & Objectives for Smart Classrooms





1. FIELD INVESTIGATION & ANALYSIS

1.1. SPJN Municipal corporation High school, S.D.Layout

SPJNM high school is located in the TTC (ABD) with student strength of 701 students and teaching staff of 25. It is located in the Ward No 37 and is one of the oldest high schools of the city. The school shares boundary with municipal ground which is about 5 acres size.

no	Name	SPJN Municipal corporation High school
	Classification	High School
mati	Site Area	3 acres
General Information	Open Space	8 Acres (abutting municipal ground)
rall	No of Students	701
ene	Boys & Girls	Boys: 500 ; Girls: 201
9	No of Faculty	25
		Classrooms: 18; others: 6

Table 1 : General information-SPJNM High School; Source: MCT & AECOM field survey

Digital Education in the school

There is a one digital classroom installed recently as part of the MCT initiative- one projector and a digital screen along with the internet connection. The digital classroom accommodates about 100 students. The school has one computer lab. There are about 15 computers in the lab and there is no computer faculty in the school.

ucation	Computer lab	Yes
	No of computers	15
	Student computer ratio	46:1
	Computer faculty	No
Digital	Digital classroom	Yes
Dig	Capacity	100
	Components	Projector & Digital screen
	Internet	Yes (BSNL)

Table 2 : Digital Education information-SPJNM High School; Source: AECOM field survey



Figure 1-1: School campus, computer lab & Digital classroom-SPJNM High School; Source: AECOM

1.2. TPPM Municipal corporation High school, TP Area (E)

TPPM high school is located towards Old core area near the railway station road, with student strength of 138 students and teaching staff of 9. It is located in Ward No 26 and is one of the oldest high schools of the city. The school is operating in a 0.61 acre plot with one existing constructed block.

	Name :	TPP Municipal corporation High school	
	Classification	High School	
mat	Site Area	0.61 acres	
Infor	Open Space	0.12 Acres	
rall	No of Students	138	
General Information	Boys & Girls	Boys: 83 ; Girls: 55	
	No of Faculty	09	
	No of classrooms	Classrooms: 5; others: 5	

Table 3 : General information-TPPM High School; Source: MCT & AECOM field survey

Digital Education in the school

The school has one computer lab located on the 1st floor of the block which is not under use. There are about 14 computers in the lab and there is no computer faculty in the school.

_	Computer lab	Yes
	No of computers	10
읁	Student computer ratio	14:1
Educ	Computer faculty	No
ital	Digital classroom	No
Digi	Capacity	-
	Components	-
	Internet	No

Table 4 : Digital Education information-TPPM High School; Source: AECOM field survey



Figure 1-2 : School campus, computer lab -TPPM High School; Source: AECOM

1.3. Municipal corporation High school, Doddapuram

MC Doddapuram high school is located near the municipal corporation office, with student strength of 156 students and teaching staff of 9. It is located in Ward No 27. The school is operating in a 0.25 Acre plot with in a G+1 structure building.

ion	Name :	Municipal corporation High school, Doddapuram	
	Classification	High School	
mat	Site Area	0.25 acres	
General Information	Open Space	0.12 Acres	
	No of Students	156	
	Boys & Girls	Boys: 77 ; Girls: 79	
	No of Faculty	09	
	No of classrooms	Classrooms: 5; others: 5	

Table 5 : General information-MCHS Doddapuram High School; Source: MCT & AECOM field survey

Digital Education in the school

The school doesn't have computer lab or any other digital infrastructure.

Educat	Computer lab	No
	No of computers	-
	Student computer ratio	-
	Computer faculty	No
	Digital classroom	No
	Capacity	-
	Components	_
	Internet	No

Table 6 : Digital Education information-MCHS Doddapuram High School; Source: AECOM field survey



Figure 1-3: School campus, computer lab –MCHS Doddapuram High School; Source: AECOM

1.4. Municipal corporation High school, T.V.Gunta

T.V.gunta high school is located towards east side just abutting to the ABD boundary, with student strength of 318 students and teaching staff of 9. It is located in Ward No 45. The school is operating in a 0.6 Acre plot with 100 sqm open space in two G+1 structure buildings. The ground floor is occupied by the primary school whereas the high school is located on the first floor.

	Name	Municipal corporation High school
	Classification	High School
mati	Site Area	600 sqm
General Information	Open Space	100 sqm
rall	No of Students	318
ene	Boys & Girls	Boys: 160 ; Girls: 158
9	No of Faculty	9
	No of classrooms	Classrooms: 6 others: 2

Table 7 : General information-TV Gunta High School; Source: MCT & AECOM field survey

Digital Education in the school

The school has one computer lab which is shared with the faculty room. There are about 10 computers in the room but these are not in use and are poorly maintained.

D	on	Computer lab	Yes (Shared room with faculty room)
	Ö	•	10
	Fdu	Student computer ratio	32:1

Tirupati, Andhra Pradesh	0

Computer faculty	No
Digital classroom	No
Capacity	-
Components	-
Internet	-

Table 8 : Digital Education information-TV Gunta High School; Source: AECOM field survey





Figure 1-4: School campus, computer lab -TV gunta High School; Source: AECOM

1.5. Issues and recommendations

1.5.1. Issues

These are the following issues observed in all the schools:

- Existing computer lab infrastructure is very poor in all schools.
- There is no dedicated faculty for imparting computer education.
- Ill-equipped staff and absence of any training programs to train faculty in using digital modes of teaching.
- The available space for Digital Classrooms is very less in two schools.
- Lack of furniture for seating and storage.
- There is no internet connection in three schools
- Absence of library/reading rooms
- No health programs presently being run in any school

1.5.2. Recommendations

These are the following recommendations:

- Introducing a Robust and Flexible digital solution in classrooms, which requires less maintenance and can be installed in a limited space
- Capacity building programs and training for all staff members to familiarize them with Digital Classroom interface and teach them to use it.
- Robust internet connection and power back-up required in all schools