CONCEPTUAL PLAN

FOR

PROPOSED CONSTRUCTION OF NEW MEDICAL COLLEGE

AT

Survey No: 14/B, 26 & 27 Kharvad Ground, Sipor Road, Vadnagar Ring Road, At Vadnagar, Tal. Vadnagar, Dist. Mehsana, Gujarat-384355

BY:

PROJECT IMPLEMENTATION UNIT, MEHSANA Health & Family Welfare Department, Government of Gujarat, Civil Hospital Campus, Sector-12, Gandhinagar-382012.
EXECUTIVE SUMMARY OF THE REPORT

Project Implementation Unit, Health & Family Welfare Department, Government of Gujarat, planning to proposed construction of “GMERS Medical College & Hospital at Survey No: 14/B, 26 & 27 Kharvad Ground, Sipor Road, Vadnagar Ring Road, At Vadnagar, Tal. Vadnagar, Dist. Mehsana, Gujarat”. The proposed building will be constructed on the government land. Around 90118.0 sq.m. Land will be utilized for the proposed project.

PROJECT COST
Cost of the proposed project would be Rs. 91.00 crores.

REQUIREMENTS FOR THE PROJECT

Land: Around 90118.0 sq.m. Land will be utilized for the proposed project. The construction project will be constructed on the govt. land.

Water: During Construction Water requirement will be 25.0 KLD for Domestic & construction purpose only. During Operational Phase water requirement will be 507.0 KLD for Domestic & Gardening purpose only.

Electrical Energy: During Operational Phase total power requirement will be 1600 KVA for Power supply shall be met from Uttar Gujarat Vij Company Limited (DGVCL) and supported by one nos. of 750 KVA D.G. Set. During Construction Phase power requirement will be 100 KVA which will be met from UGVCL. In case of power failure 125 KVA of D.G.Set is provided during construction phase.

Manpower: During Construction around 100 workers will be employed on contract basis. As proposed project is of medical college & civil hospital. There will be people around following occupancy 650 Nos. of Patient, 325 Nos. of OPD & Staff, 1070 Nos. of Occupant in Staff Quarters, 60 Nos. of Other Staff, 600 Nos. of Students, 1066 Nos. of Occupant in hostel (Boys and Girls), 831 Nos. of Visitors.

WASTE WATER GENERATION AND ITS TREATMENT:
During Construction Phase Domestic waste water i.e. 4.0 KLD will be generated which will be disposed off through temporary septic tank/ soak pit.

During Operational Phase Domestic waste water shall be generated i.e. 194.0 KLD which will be disposed off through u/g drainage system of Vadnagar Nagarpalika.

SOLID WASTE GENERATION AND ITS DISPOSAL METHOD
The solid waste management is one of the key considerations in the area. Door to Door solid waste collection system is existing in whole Vadnagar city. That will be provided at relocation site also. The segregation of wet and dry waste will also be adopted.

GREEN BELT DEVELOPMENT
Green Belt area shall be developed at plot boundary, Road side and Stretch of open land. Green belt development plant is in initial stage which will be submitted letter.
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</tr>
</tbody>
</table>
INTRODUCTION OF THE PROJECT

1.1 IDENTIFICATION OF PROJECT AND PROJECT PROPOONENT

The proposed project is Construction of GMERS Medical College & Hospital, Located at Survey No: 14/B, 26 & 27 Kharvad Ground, Sipor Road, Vadnagar Ring Road, At Vadnagar, Tal. Vadnagar, Dist. Mehsana, Gujarat.

The project is proposed Project Implementation Unit, Health & Family Welfare Department, Government of Gujarat, Civil Hospital CAMPUS, Sector-12, Gandhinagar-382012.

Proposed project having capacity and facilities as per the mentioned below:

A. INTERNAL FACILITIES:
   1. Earthquake proof, R.C.C. Design
   2. Hollow Plinth and Basement area for parking
   3. Granamite tiles flooring
   4. Glazed tiles in flooring & dado for bath & WC.
   5. Internal Plumbing & sanitation
   6. Internal & Common electrification
   7. Flat roof, with water proofing
   9. Type of building and their description

B. PHYSICAL INFRASTRUCTURE FACILITIES:
   1. Surround pavement (paver blocks)
   2. Drainage Network
   3. Water supply Network
   4. RCC internal roads
   5. Street lights on internal roads

C. SOCIAL INFRASTRUCTURES:
   1. Broad-band/ Wi-Fi Connectivity
   2. Boys & Girls Hostel
   3. Medical & Nursing college
   4. Civil hospital
   5. Nursing & New Interns Hostel
   6. Staff Quarters
   7. PIU Office
   8. Medical Superintendent & Dean Bungalows

1.2 DESCRIPTION OF THE PROJECT

The proposed project is Construction of New Medical College building. Located at Survey No: 14/B, 26 & 27 Kharvad Ground, Sipor Road, Vadnagar Ring Road, At Vadnagar, Tal. Vadnagar, Dist. Mehsana.

1.3 NEED FOR THE PROJECT

The present scheme named as “Construction of New Medical College building” is being developed for the segment of the society. The scheme is Located at Survey No: 14/B, 26
The present scheme is aimed to provide better medical facilities for nearby villages.

1.4 EMPLOYMENT GENERATION

As proposed project is construction project, it will generate a lot of employment for local labours and manpower. Around 100 construction workers will be engaged in the construction work.

After establishment of proposed project of medical college & civil hospital, directly and indirectly employment will also be generated in the nearby region. There will be people around following occupancy 650 Nos. of Patient, 325 Nos. of OPD & Staff, 1070 Nos. of Occupant in Staff Quarters, 60 Nos. of Other Staff, 600 Nos. of Students, 1066 Nos. of Occupant in hostel (Boys and Girls), 831 Nos. of Visitors.

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Building Name</th>
<th>Built-Up Area Details (sq.m.)</th>
<th>FSI (sq.m.)</th>
<th>Building Details</th>
<th>Building Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>New Hospital Building</td>
<td>73559.12</td>
<td>69181.14</td>
<td>G+ 9 floor</td>
<td>Height 42.0 m, 7 stairs 2.0 m width, 9 lift</td>
</tr>
<tr>
<td>2</td>
<td>New College Building</td>
<td>32665.6</td>
<td>29535.40</td>
<td>G+4 (G floor parking)</td>
<td>Height 21 m, 7 stairs 2.0 m width, 7 lift</td>
</tr>
<tr>
<td>3</td>
<td>New Staff Quarter</td>
<td>11312.30</td>
<td>9362.20</td>
<td>G + 9 (G floor parking)</td>
<td>Height 31.2 m, 2 stairs 2.0 m width, 6 lift</td>
</tr>
<tr>
<td>4</td>
<td>New Staff Quarter</td>
<td>11312.30</td>
<td>9362.20</td>
<td>G + 9 (G floor parking)</td>
<td>Height 31.2 m, 2 stairs 2.0 m width, 6 lift</td>
</tr>
<tr>
<td>5</td>
<td>New Staff Quarter</td>
<td>18298.10</td>
<td>15166.20</td>
<td>3 BHK, G + 9 (G floor parking)</td>
<td>Height 31.5 m, 3 stairs 1.5 m width, 6 lift</td>
</tr>
<tr>
<td>6</td>
<td>New Boys Hostel</td>
<td>7538.70</td>
<td>5761.00</td>
<td>1 BHK, G + 9 (G floor parking)</td>
<td>Height 31.5 m, 2 stairs 1.5 m width, 4 lift</td>
</tr>
<tr>
<td>7</td>
<td>New Girls Hostel</td>
<td>8447.22</td>
<td>7298.46</td>
<td>3 BHK, G+8 (G floor parking)</td>
<td>Height 28.35 m, 1 stairs 1.5 m width, 2 lift</td>
</tr>
<tr>
<td>8</td>
<td>Medical Superintendent</td>
<td>383.44</td>
<td>346.00</td>
<td>G+1</td>
<td>Height 9.6 m, 1 stairs of 1 m width</td>
</tr>
<tr>
<td>9</td>
<td>Dean Bungalows</td>
<td>383.44</td>
<td>346.00</td>
<td>G+1</td>
<td>Height 9.6 m, 1 stairs of 1 m width</td>
</tr>
</tbody>
</table>

Total 163900.22 146358.60
CHAPTER – 2

PROJECT DESCRIPTION

2.1 TYPE OF PROJECT

The proposed project is Expansion in Existing Civil Hospital And Construction of New Medical College building at Survey No: 14/B, 26 & 27 Kharvad Ground, Sipor Road, Vadnagar Ring Road, At Vadnagar, Tal. Vadnagar, Dist. Mehsana, Gujarat.

2.2 LOCATION OF THE PROJECT WITH COORDINATES

Proposed project is located at Survey No: 14/B, 26 & 27 Kharvad Ground, Sipor Road, Vadnagar Ring Road, At Vadnagar, Tal. Vadnagar, Dist. Mehsana, Gujarat. General location of the proposed project is shown in the below mentioned figure:

FIGURE: GENERAL LOCATION OF THE PROJECT

2.3 SELECTION OF THE PROPOSED PROJECT SITE

The proposed project is existing in the Vadnagar city. So all proposed infrastructure facilities will be available from this road and city level infrastructure facilities will be available at Vadnagar. Due to the demand of the district villages for more health facilities in the area, Gujarat government has granted new 650 beds and medical college with supporting infrastructure. Vadnagar is located at 23°47’32.1” N 72° 38’06.8”E. The city center is about 200 km inland from the Gulf of Khambhat.
2.4 SIZE OF OPERATION

Proposed project is the Construction of New Medical College building in around 90118.0 sq. m. land area with total 163900.22 sq. m. of built up area.

2.5 RAW MATERIAL REQUIREMENTS

Construction materials i.e. cement, steel, wire, sand, aggregate, bricks etc. will be procured from the local market as per requirements. Approximate Quantities are mentioned below table:

**TABLE 2: RAW MATERIALS REQUIREMENT**

<table>
<thead>
<tr>
<th>S. NO.</th>
<th>MATERIALS</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Cement</td>
<td>3,41,000 BAGS</td>
</tr>
<tr>
<td>2.</td>
<td>Steel</td>
<td>5200 TONS</td>
</tr>
<tr>
<td>3.</td>
<td>Sand</td>
<td>28,000 Cu.m</td>
</tr>
<tr>
<td>4.</td>
<td>Aggregate</td>
<td>35,000 Cu.m</td>
</tr>
<tr>
<td>5.</td>
<td>Aerated Concrete Blocks/bricks</td>
<td>66,000 NOS</td>
</tr>
</tbody>
</table>

2.6 AVAILABILITY OF WATER, ITS SOURCE & POWER REQUIREMENT, ITS SOURCE

2.6.1 WATER REQUIREMENT AND ITS SOURCE

The main source of water supply is Vadnagar Nagarpalika supply line. During Construction, total water requirement is 25.0 KLD and source will be Vadnagar Nagarpalika supply line. During Operation, total water requirement is 507.0 KLD and source will be Vadnagar Nagarpalika supply line.

2.6.2 POWER REQUIREMENT AND ITS SOURCE

During Construction total power requirement will be 100 KVA and source will be UGVCL. In case of power failure 125 KVA of D.G.Set will be provided during construction phase. During Operational Phase total power requirement will be 1600 KVA. 1 Nos of D.G. set, each 750 KVA will be provided as backup power.

2.7 QUANTITY OF WASTES TO BE GENERATED AND THEIR DISPOSAL

During Construction Phase Domestic waste water of around 4.0 KLD shall be generated which will be disposed off through temporary septic tank/ soak pit.

During Operational Phase Only domestic waste water of around 194.0 KLD shall be generated which will be suitably disposed off through u/g drainage system of Vadnagar Nagarpalika after treating it at the proposed STP.

The solid waste management is one of the key considerations in the area. Door to Door solid waste collection system is an existing in whole Vadnagar city. That will be provided at relocation site also. The segregation of wet and dry waste will also be adopted.
SITE ANALYSIS

3.1 CONNECTIVITY
Proposed project is located Survey No: 14/B, 26 & 27 Kharvad Ground, Sipor Road, Vadnagar Ring Road, At Vadnagar, Tal. Vadnagar, Dist. Mehsana, Gujarat. Transportation facilities to access various markets are readily available. Both skilled and unskilled labours are easily available in the area.

3.1.2 Rail
The Area is well connected by Railway. Vadnagar railway station at approximately 1.0 Km SW from the proposed project site.

3.1.3 Airport
The nearest airport is Ahmedabad at approximately 80.0 Km South from the proposed project site.

3.1.4 Communication
The site has access of telephone, internet and mobile connectivity.

3.2 LAND USE AND LAND OWNERSHIP
The Proposed Construction of New Medical College building will be constructed on the Government Land with ownership.

3.3 EXISTING LAND USE PATTERN
Land is non agriculture. There is no National Park; Wild life sanctuary within a radius of 10 Km. Details of existing land use is given in the following table:

<table>
<thead>
<tr>
<th>S.NO.</th>
<th>PARTICULAR</th>
<th>NAME &amp; ITS DISTANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Nearest National Highway</td>
<td>NH-8 at around 2.8 Km</td>
</tr>
<tr>
<td>2.</td>
<td>Nearest city</td>
<td>Mehsana city at around 32.00 Km in SW</td>
</tr>
<tr>
<td>3.</td>
<td>Nearest River</td>
<td>Gulf of Khambhat at around 200.0 Km in SD</td>
</tr>
<tr>
<td>4.</td>
<td>Nearest Railway station</td>
<td>Vadnagar at around 1.0 Km SW</td>
</tr>
<tr>
<td>5.</td>
<td>National park/Reserve Forest, Biosphere, etc.</td>
<td>None within a radius of 10 Km</td>
</tr>
<tr>
<td>6.</td>
<td>Seismicity</td>
<td>Zone III</td>
</tr>
</tbody>
</table>
3.4 EXISTING SOCIAL INFRASTRUCTURE

The following are the existing infrastructure facilities availability and distance from site are given in the following table:

TABLE 4: DETAILS OF EXISTING SOCIAL INFRASTRUCTURE

<table>
<thead>
<tr>
<th>S. NO.</th>
<th>PARTICULAR</th>
<th>DISTANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Hospital</td>
<td>Present within 15 Km radius.</td>
</tr>
<tr>
<td>2.</td>
<td>Colleges</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>School</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Temple</td>
<td></td>
</tr>
</tbody>
</table>

3.5 SOIL CLASSIFICATION

For the proposed project, soil testing will be carried out.

At Ground level Blackish silty clay of high plasticity with sand particles.
PLANNING BRIEF

CHAPTER – 4

4.1 PLANNING CONCEPT
The proposed project is Construction of New Medical College building. At Survey No: 14/B, 26 & 27 Kharvad Ground, Sipor Road, Vadnagar Ring Road, At Vadnagar, Tal. Vadnagar, Dist. Mehsana, Gujarat.

4.2 POPULATION PROJECTION
The proposed project is Construction of New Medical College building. At Survey No: 14/B, 26 & 27 Kharvad Ground, Sipor Road, Vadnagar Ring Road, At Vadnagar, Tal. Vadnagar, Dist. Mehsana, Gujarat.

During construction period 100 Man power will required per day. After construction completion, There will be people around following occupancy 650 Nos. of Patient, 325 Nos. of OPD & Staff, 1070 Nos. of Occupant in Staff Quarters, 60 Nos. of Other Staff, 600 Nos. of Students, 1066 Nos. of Occupant in hostel (Boys and Girls), 831 Nos. of Visitors.

4.3 LAND USE PLANNING
For the proposed project Green Belt area shall be developed at plot boundary, road side and Stretch of open land. Green belt development plant is in initial stage which will be submitted letter on. Detailed plan layout is attached as Annexure – I. Detailed land use breakup mentioned in the below table:

<table>
<thead>
<tr>
<th>S. NO.</th>
<th>PARTICULAR</th>
<th>AREA IN SQ. M.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Plot / Land Area</td>
<td>90118.0</td>
</tr>
<tr>
<td>2.</td>
<td>Built-up Area</td>
<td>163900.22</td>
</tr>
<tr>
<td>3.</td>
<td>FSI Area</td>
<td>146358.60</td>
</tr>
<tr>
<td>4.</td>
<td>Parking Area</td>
<td>36774.68</td>
</tr>
</tbody>
</table>

4.4 ASSESSMENT OF INFRASTRUCTURE DEMAND
Vadnagar is located at 23.78°N 72.63°E. It has an average elevation of 143 metres (469 feet).

Vadnagar is located South of Vadnagar Kheralu Telgah. To the West Unjha telgah, South- Visnagar and Vijapur telgah and on East side Sabarkantha Districts are located.

Known history of Vadnagar goes back to more than 2500 years. Vadnagar is referred to as Anartapur in Mahabharata. According to the great epic the Anarta warriors fought in the Mahabharata war on both the sides and the feud among them continued even after the war was over. Recent archaeological excavations have established the existence of a thriving city of religious and cultural activities at the location around the 1st century.

Vadnagar has also yielded an image of Bodhisattva dated back to the 3rd or 4th century AD. This image seems to be brought from Mathura to install in one of the Buddhist
monasteries of the town. Chinese traveller Xuanzang visited Vadnagar in the 641 A.D. and recorded the presence of Buddhist establishments.

It is also said that Vadnagar was the earliest capital of Gujarat. Vadnagar's main is located inside the walls of a fort which has 6 huge gates namely Arjun Bari, Nadiol, Amarthol, Ghaskol, Pithori and Amarthol in which Amarthol gate area is the oldest existing part of the town. The river Kapila used to flow through the town of Vadnagar.

The town is also blessed with a magnificent lake named as "Sharmistha Lake" which has a small island like place amidst it. It is connected with a 7 km long inlet canal. The government is developing this island into a beautiful garden.

Vadnagar also has various public architectures like a Museum and Library, government hospital and a government court.

There are scores of temples dedicated to almost every God: Shiva, Chhabila, Hanuman, Ashapuri Mata, Ambaji Mata, Vishnupuri, Gaurikund to name just a few. Of the numerous Shiva shrines, the 15th-century "Hatkeshver Mahadev" is the most important. He is the family deity of the Nagar Brahmins. Facing the east, it is enclosed by a high wall surmounted by three circular domes. From the roof of the sanctum rises a massive pinnacle, which soars high above in the sky. A massive congregation hall leads to the sanctum which houses a shivling said to have self-emerged or as it is said - "Swayambhu"(self emerged). The exterior of the temple is exquisitely and profusely ornamented with figures of the nine planets, regent deities, the chief gods of the Hindu pantheon, scenes from the life of Krishna and Pandava princes, besides the varied animal and floral motifs. The premises also house an ancient Kashivishveshvara Shiva temple, Swaminarayan Temples (one for male and one for females), two Jain derasars, a goddess Ashapuri temple (Shaktipith), goddess Bhuvaneshpuri Temple, Somnath Mahadev Temple, Daaneshwar Mahadev Temple and Vishnupuri Temple (it is said that God Vishnu himself had stepped here).

Renovated twice or thrice is the "Sitala Mata" Temple ornately carved with figures of celestial beings. Its door frames and ceilings depict the Rasmandala (Krishna dancing with milkmaids). The most striking pieces of architecture in Vadnagar, however, are the two magnificent Kirtistambhas or triumphal arches. Built of red sandstone they are both identical in size and style. Only, one lies in pieces on the ground (now re-erected) and the other stand erect. Its pillars and arches are decorated with lozenges at the base and geometric and floral designs-leaves, creepers, lotus, animal motifs, human figures engaged in various activities and divine figures in different poses. The top bears an image of a seated god Kartikeya flanked by Ganesh and Makara (griffin) from which spring arches. A number of standing female figures also ornament the top. Vadnagar is also known as Skandhpur after Kartikeya, who is identified with Murugan.

- Temple of Hatkeshwar Mahadev
- Lake Sharmista - Renovation done in 2009 which includes stadium construction in island in the Lake
- Tana Riri garden and shrine
- Jain temples
- Khokha Ganapati
- Ancient Library
- Gauri Kund
- Well of Pancham Mehta
- Janjanio well
- Temple of Ashapuri Mata
- Temple of Amther Mata
- Kirti Toran or Narsinh Mehta's Chori
- Nag Dharo and Nag Temple
- Amarkund and Mahakaleshwar Mahadev temple
- Baithakji of Gusaiji
- Saptrushi
Due to the demand of the district villages for more health facilities in the area, Gujarat government has granted new 650 beds and medical college with supporting infrastructure.
CHAPTER – 5

PROPOSED INFRASTRUCTURE

5.1 RESIDENTIAL AREA

Proposed project is the Expansion in Existing Civil Hospital And Construction of New Medical College building in around 90118.0 sq. m. land area with total 163900.22 sq. m. of built up area.

**TABLE 6: DETAILS OF DWELLING UNITS**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Building Name</th>
<th>Built-Up Area Details (sq.m.)</th>
<th>FSI (sq.m.)</th>
<th>Building Details</th>
<th>Building Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>New Hospital Building</td>
<td>73559.12</td>
<td>69181.14</td>
<td>G+ 9 floor</td>
<td>Height 42.0 m, 7 stairs 2.0 m width, 9 lift</td>
</tr>
<tr>
<td>2</td>
<td>New College Building</td>
<td>32665.6</td>
<td>29535.40</td>
<td>G+4 (G floor parking)</td>
<td>Height 21 m, 7 stairs 2.0 m width, 7 lift</td>
</tr>
<tr>
<td>3</td>
<td>New Staff Quarter (100 sq.m -108 unit)</td>
<td>11312.30</td>
<td>9362.20</td>
<td>G + 9 (G floor parking)</td>
<td>Height 31.2 m, 2 stairs 2.0 m width, 6 lift</td>
</tr>
<tr>
<td>4</td>
<td>New Staff Quarter (50 sq.m -72 unit)</td>
<td>11312.30</td>
<td>9362.20</td>
<td>G + 9 (G floor parking)</td>
<td>Height 31.2 m, 2 stairs 2.0 m width, 6 lift</td>
</tr>
<tr>
<td>5</td>
<td>New Staff Quarter (200 sq.m -32 unit)</td>
<td>18298.10</td>
<td>15166.20</td>
<td>3 BHK, G + 9 (G floor parking)</td>
<td>Height 31.5 m, 3 stairs 1.5 m width, 6 lift</td>
</tr>
<tr>
<td>6</td>
<td>New Boys Hostel (144 boys)</td>
<td>7538.70</td>
<td>5761.00</td>
<td>1 BHK, G + 9 (G floor parking)</td>
<td>Height 31.5 m, 2 stairs 1.5 m width, 4 lift</td>
</tr>
<tr>
<td>7</td>
<td>New Girls Hostel (144 Girls)</td>
<td>8447.22</td>
<td>7298.46</td>
<td>3 BHK, G+8 (G floor parking)</td>
<td>Height 28.35 m, 1 stairs 1.5 m width, 2 lift</td>
</tr>
<tr>
<td>8</td>
<td>Medical Superintendent Bungalows</td>
<td>383.44</td>
<td>346.00</td>
<td>G+1</td>
<td>Height 9.6 m, 1 stairs of 1 m width</td>
</tr>
<tr>
<td>9</td>
<td>Dean Bungalows</td>
<td>383.44</td>
<td>346.00</td>
<td>G+1</td>
<td>Height 9.6 m, 1 stairs of 1 m width</td>
</tr>
<tr>
<td><strong>Total Proposed</strong></td>
<td></td>
<td><strong>163900.22</strong></td>
<td><strong>146358.60</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
5.2 **GREEN BELT**
For the proposed project Green Belt area shall be developed at plot boundary, road side and Stretch of open land.

5.4 **SOCIAL INFRASTRUCTURE**
5.4.1 **FACILITIES WITHIN SITE**
1. Broad-band/ Wi-Fi Connectivity
2. Boys & Girls Hostel
3. Medical & Nursing College
4. Civil hospital
5. Nursing & New Interns Hostel
6. Staff Quarters
7. PIU Office
8. Medical Superintendent & Dean Bungalow

5.5 **CONNECTIVITY**
The proposed project site is well connected with the road, railway and air.

5.6 **DRINKING WATER SOURCE**
The main source of water supply is Vadhagan Nagarpalika supply line.

5.7 **SEWERAGE SYSTEM**
5.7.1 **TYPE OF SEWAGE SYSTEM PROPOSED**
Regular drainage line of NP3 class R.C.C. pipes will be laid on the internal roads of the developed site. This will be connected with regular sewer line, disposing the sewage water in Vadhagan nagarpalika u/g drainage system.

5.7.2 **NO OF SEPTIC TANKS, MANHOLE ETC. (WHICHEVER IS APPLICABLE)**
As regular drainage line reaching up to u/g drainage of Vadhagan nagarpalika is planned, no need of any septic tank. Manholes at regular interval of 30 m will be provided.

5.7.3 **SEWAGE DISPOSAL POINT AND ITS INTEGRATION WITH CITY LEVEL SEWAGE DISPOSAL SYSTEM**
The disposal point is through Vadhagan Nagarpalika supply line u/g drains will be at nearest Sewage treatment plant of Vadhagan Nagarpalika.
During Construction Phase Domestic waste water shall be generated which will be disposed off in temporary soak pit/septic tank.
During Operational Phase only domestic waste water shall be generated which will be suitably disposed off through u/g drainage system of Vadhagan nagarpalika after treating it at the proposed STP.
5.8 SOLID WASTE MANAGEMENT
The solid waste management is one of the key considerations in the area. Door to Door solid waste collection system is an existing in whole Vadnagar city. That will be provided at relocation site also. The segregation of wet and dry waste will also be adopted.
The New Medical College building & Civil Hospital will be constructed on the government land. There is no human population on the proposed land, so there is no need of Rehabilitation & resettlement plan.
CHAPTER – 7

PROJECT SCHEDULE & COST ESTIMATES

7.1 PROJECT SCHEDULE

Implementation of Project within a pre-determined time frame is an important factor for the success of a project. Timely implementation saves on various costs like interest, administrative overheads and helps to realize the goals as per pre-determined objectives.

Implementation of Project involves co-ordination of different activities at various levels of the firm and amongst different outside agencies. We are giving here under the details of the Project Implementation:

TABLE 7: PROJECT IMPLEMENTATION SCHEDULE

<table>
<thead>
<tr>
<th>S. NO.</th>
<th>PARTICULARS</th>
<th>DURATION IN MONTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Foundation and work up to plinth</td>
<td>7</td>
</tr>
<tr>
<td>2</td>
<td>Ground Floor Works</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>First to Twelveth Floor Works</td>
<td>15</td>
</tr>
<tr>
<td>4</td>
<td>Terrace Cabin Works</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Outer Plaster Works</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>Plumbing and Sanitation</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Electrification</td>
<td>3</td>
</tr>
<tr>
<td>8</td>
<td>Colour Work</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Drainage and water supply Services</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Street Light and Road services</td>
<td>6</td>
</tr>
<tr>
<td>11</td>
<td>Social infrastructure works</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Allotment to Beneficiaries</td>
<td>37 Month</td>
</tr>
</tbody>
</table>

7.2 ESTIMATED PROJECT COST

Cost of the proposed project would be approx Rs. **Rs.910.00** crores. Break up of proposed project cost is given in following table:

TABLE8: BREAKUP OF PROJECT COST

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Project Activity</th>
<th>Cost (In crores)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Land Cost</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>Land Development</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>Construction Cost</td>
<td>910.00</td>
</tr>
<tr>
<td>4</td>
<td>Misc.</td>
<td>0</td>
</tr>
</tbody>
</table>

**Total 910.00**