

GOVERNMENT OF KARNATAKA PUBLIC WORKS PORTS & INLAND WATER TRANSPORT DEPARTMENT

Name of Work: - 1.Construction of Compound wall, Retaining wall, Toilets
Repairs and Work Station: 2.Construction of Boys Hostel 3.Construction of
Girls Hostel 4.Construction of Sports Complex Building 5.Construction of
Workshop Building 6.Construction of Guest house building 7.Construction of
Library Building 8.Providing of Solar Power Generating Panel And Street Light
9.Construction of Sewerage Treatment Plant (200 KLD) to Govt. Engineering
college in Ramanagara (Indent no.93363)

Project Reports

Executive Engineer, PWP&IWTD Ramanagara Division, Ramanagara.

PROJECT REPORTS

CONSTRUCTION OF GUEST HOUSE, LIBRARY BUILDING, SPORTS COMPLEX, BOYS & GIRLS HOSTEL, WORKSHOP BUILDING AND INFRASTRUCTURAL WORKS FOR GOVF ENGINEERING COLLEGE AT RAMANAGARA, RAMANAGARA DISTRICT

I. GENERAL NOTE

Rural India is undergoing rapid transformation Many Industries are moving towards, rural pockets of the country whereas industries in urban areas are growing manifolds. This calls for an urgent need of highly specialized and both Research & Skilled manpower viz. Institutes to produces much manpower. The Project envisages setting up of an integrated Skill in Ramanagara, Ramanagara District which would not only boost the local economy of the district but also cater to growing demand of highly skilled human resource in the latest technology across sectors in the country.

The Government of Karnataka under the Directorate of Technical Education has established 10 Engineering Colleges during the year 2007-08 with an Objective to nurture the young talent of economically weaker sections from rural Karnataka, Govt .Engineering College at Ramanagara is one such College established. This Institution situated on Bangalore –Mysore Highway, Doddamannugudde village, away from the inland bustle of city, very conducive for academic activities and also very well connected by Rail and Road with all the major cities in India.

This Institution is affiliated to Visvesvaraya Technological University, Belagavi and approved by AICTE, NewDelhi. GEC Ramanagara imparts Quality Technical Education; focuses on providing balanced Education and overall development of the Students Embedded with Humanvalues, State-of-the-art facilities are coming up in the College. At present Govt Engineering College, Ramanagara is spread over 19Acres 30 Guntas and Institution has only one building structure with ground plus two upper floors.

During the Visit of Honorable Chief Minister of Karnataka and PWD Minister in the GEC Ramanagara Premises on 23.07.2018, The Honorable Chief Minister and PWD Minister have instructed to PWD Officials to provide infrastructural works to existing Building (Academic Block) and develop the GEC Ramanagara campus. As per Instructions from the Hon'ble Chief Minister and PWD Minister, the PWD officials, Ramanagara Division and Architects had visited the site and made detail discussion with GEC-Ramanagara officials.

In this preview, the PWD, Ramanagara have Proposal to provide Infrastructure to existing Building (Academic Block) and construct Guesthouse, Library Building, Sports Complex, Boys&GirlsHostel, Workshop and Infrastructural works in the premises of Government Engineering College campus at Ramanagara under the guidance of Directorate of Technical Education, Government of Karnataka. The Land already available in this campus for constructing the Proposed works by Government of Karnataka. Hence, the PWD has proposed project costRs.75.10 Crores.Accordingly the Detailed Project Report has been prepared. The amount of each proposed buildings as follows, vide IFA, Board of Technical Education, and Bengalura Letter Dated No: ED/124/HPU/BENGALURU/Dated: 05-09-2018.

1. Guest House (Ground+1Upper floor)

- . 1) Estimate Cost......300.00 Lakhs.
 - 2) Design.....G+1Floors.
 - Total Floor Area......780.00Sqm. (GF-390.00 First Floors 390.00Sqm)
- 4) Ground Floor...... Centre courtyard, Lounge, Kitchen, Dining Hall, Store Room, 2 no's VVIP Rooms With attached Toilets.
- 5) First Floors....... Centre courtyard, Lounge, Kitchen, Dining Hall, Store Room, 2 no's VVIP Rooms With attached Toilets.

2. Library Block (Ground+1Upper Floor)

- 1) Estimate Cost......900.00Lakhs.
 - 2) Design.....G+1 Floors.
 - 3) Total Floor Area......3480.00Sqm. (GF-1740.00 First Floor 17400.00Sqm)
 - 4) Ground Floor.....Librarian Room, Assistant Librarian Room, Reading Room, Store Room, Conference Hall, Godown, Electrical Room, Ladies & Gents toilets.
 - 5) First Floors:--Digital Library, Reference Section, Periodicals, Reading Room, News paper Room, E-journals Room, Assistant Librarian Room, and Ladies & Gents Toilets Store Room.

3. Sports Complex (Ground+1Upper floor)

- 1) Estimate Cost......900.00Lakhs.
- 2) Design......G+2Floors.
- Total Floor Area......3610.00Sqm. (GF-1350.00 Remaining Floors 2260.00Sqm)
- . 4) Ground floor:--Entrance Lobby, Basket Ball Court, Store Room, Luggage Room, Ladies &Gents toilets, Dress Changing Room.
 - 5) 1st&2nd Floors:--Badminton, Table Tennis, Gym, Carrom, Chess, Billiards, Luggage & Dress Changing Room.

4.Boys Hostel(Ground+5Upper Floors)

- 1) Estimate Cost.......1560.00Lakhs.
- 2) Design......G+5 Floors.
- 3) Total Floor Area......6177.00Sqm. (GF-1335.00 Remaining Floors 4842.00Sqm)
- 4) Total Accommodations:--208 Students.
- 5) Ground floor:--16 Rooms, Warden Room, Kitchen, Dining Hall,
- 6) 1st to 5th Floors:--18Rooms, TV Hall, & Indoor Stadium.

5.Girls Hostel (Ground+5Upper floors)

- 1) Estimate Cost......1560.00Lakhs.
- 2) Design.....G+5 Floors.
- Total Floor Area......6177.00Sqm. (GF-1335.00 Remaining Floors 4842.00Sqm)
- 4) Total Accommodations: -- 208 Students.
- 5) Ground floor:--16 Rooms, Warden Room, Kitchen, Dining Hall,
- 6) 1st to 5th Floors:--18Rooms, TV Hall, & Indoor Stadium.

6. Workshop Building (Basement (part)+Ground+1Upper floor)	
1) Estimate Cost1000.00 Lakhs.	
2) DesignBasement &G+1Floors.	
3) Total Floor Area6542.00Sqm.	
(BF-990.00 Remaining Floors 5552.00Sqm)	
4) Basement Floor Work shop Hall.	
5) Ground FloorWork Shop Hall and 1 No Class Rooms.	,
6) First FloorsWork Shop Hall and 1 No Class Rooms.	:
7.Infrastructure to Existing Government Engineering college Buildin	•
(Compoundwall, Repairworks & Workstations)	2
1) Estimate Cost495.00Lakhs.	
2) DesignG+2Floors.	
3) Total Floor Area6501.00Sqm	
(GF-2167.00+Remainig Floors 4334.00Sqm)	
(GI-2107.00 (Remaining Floors 133 House 4.11)	1
4) Total Length of Compound Wall1200.00m	
5) 70 no's Of Work Stations for College Staff.	,
5) 70 H0 3 CT WOLL BLALLOLD 101 COLLEGE	
6) Auditorium Renovation, and Seating Arrangements with all facilities	
I.e. Sound System, Fire, Etc.	•
i.e. Bound Bystem, 1 124, 224	
7) Wall Paneling and False Ceiling to Principal Chamber.	
8) College Building Centre portion Covered With Truss and	ì
Trapezoidal Sheet and Cobble Stones (Paver Block)	
•	
8. Sewage Water Treatment Plant (200KLD)-100.00Lakhs	
9. Laboratory Equipments	,
1) Estimate Cost495.00 Lakhs.	
2) Providing and Fixing, Installation of Workshop Machinery's, and	٠.
Lab Equipment's (Civil, Mechanical, Computer, and E&C Departments))
Lao Equipment 5 (Civil, Mechanical, Company)	

10. Solar Power Generating Panels and Distribution (Electrical & Pump room..etc) -200.00Lakhs

The Proposed Guest house, Library Building, Sports Complex, Boys & Girls Hostel, Work shop and Infrastructural works will be constructed as per AICTE norms in the allotted land required for the purpose. Total Station Survey and Soil Investigation has been carried out. The SBC of the soil is 18 T/Sqm at 2.00Mtr depth. Accordingly the foundation is designed for the Guest house, Library Building, Sports Complex, Boys & Girls Hostel, Workshop and Infrastructural works.

ARCHITECTURAL CONCEPT

The entire full pledged proposed works in the premises of GEC at Ramanagara consists of the following buildings and Infrastructure works as under:

Government Engineering College-Ramanagara:

In addition to the existing Academic Block, the following buildings and Infrastructure added:

Guest House(Ground+1Upperfloor)

Library Block(Ground+1UpperFloor)

Sports Complex(Ground+1Upperfloor)

Boys Hostel(Ground+5UpperFloors)

Girls Hostel(Ground+5Upperfloors)

Workshop Building(Basement(part)+Ground+1Upperfloor)

Infrastructure to Existing GEC Building

(Compound wall, Repair works & Workstations)

Sewerage Water Treatment Plant (200KLD)

Laboratory Equipment's

Solar Power Generating Panels and Distribution

(Electrical & Pump room..etc)

Other Infrastructural works

External Electrification

HT Works

Panels and Cables

Under Ground Sump (1.0Lakhs Liters)

· Rain Water Harvesting

Bore wells

SEWERAGE TREATMENT PLANT (200 KLD)

The STP Consists of Bar Screen Chamber, Equalization Tank, Sequencing Batch Reactor, Pre-Filtration Tank, Treated Water tank, Sludge Digester tank and Plant Room and it is having 200000 Liters Capacity.

GENERALSPECIFICATIONS

Foundation system

M25 and M30 RCC Framed Structures 400x200x200 Solid Block For Walls Vitrified/Granite/Tandoor Blue/Industrial flooring For Floorings Red Sal Wood frames and Flush Shutters Upvc Windows

Railings:

MS handrails for Staircase & Ramp.

Electrical points:

Lighting points Fan points Plug points Common are as to be well illuminated.

Sanitary fittings:

Indian/Western type water closets, Flushing cisterns, Stainless steel Sinks and Wash basins.

Water supply fittings:

Bib taps, Stopcocks, Health faucets & valves. Wash basin Pillar taps.

SUMMARY

Detailed estimates has been prepared to all Buildings based on PWD,P&IWTD SR 2016-17,South Zone, Bangalore and Data Rates /Market Rates. The estimates includes cost of civil works, Electro Mechanical works and Architectural & Engineering Consultancy service charges & Project monitoring service charges are also considered in the Estimated cost .Total Estimated cost of all the Project is Rs7510.00 Lakhs.

Assistant Engineer

Assistant Executive Engineer PWD, P&IWTD No-1

Sub-Division Ramanagara