



BABA FARID COLLEGE OF ENGG. & TECHNOLOGY
Muktsar Road, Bathinda-151001, Punjab (INDIA)
DEPARTMENT OF CIVIL ENGINEERING

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Ref. No- BFCET/HCE/2021-22/E/12

Dated: -04/03/2022

To
Er. Gurkirtan Sharma,
Estate Officer,
Baba Farid Group of Institutions,
Bathinda

Subject: Permission for organizing one day Field work in BFGI premises.

Respected Sir,

This is to bring in your kind information that students from B.Tech Civil Engineering needs practical exposure by field work at the BFGI premises and to create a survey map of a sewage system during the one-day field work. Under the supervision of Er. Rajan Vinayak, Assistant Professor, Civil Engineering Department, interested students will be given opportunity for practical exposure through this field work.

You are requested to kindly give us permission for one day field work on **17th March, 2022**.

Mam
Head Department of CE,

Baba Farid College of Engineering and Technology, Bathinda

1. Principal, BFCET, Bathinda
2. Dean Training, BFCET, Bathinda
3. Department Notice Board, Department of CE.
4. Concern faculty members of CE Department.



BABA FARID GROUP OF INSTITUTIONS

Muktsar Road, Bathinda (Punjab) India - 151001

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Ref. No- BFGI/Estate/892(A)/2022

Dated: - 07/March/2022

To
Er. Tanu,
Head, Department of Civil Engineering
Baba Farid college of engineering and technology,
Bathinda

Subject: Regarding Permission for organizing one day Field work in BFGI premises.

Respected Mam,

Kindly refer to your letter no. BFCET/HCE/2021-22/E/12 dated 04/03/2022 on the subject cited above.

As per taking consideration of your request, necessary permission is hereby granted. We allow your students from B.Tech and faculty coordinator to carry out survey map of a sewage line at site, but due to ongoing work on the site we cannot allow all the students, as it may hamper and disturb our work. The field work is granted for one day (17/March/2022) subject to the following conditions:-

1. Involve only 4-5 students for better understanding of Sewage line survey work with the help of Total Station instrument on field site.
2. No disturbance/harm should be caused, so that ongoing work should not hamper.
3. No waste material like polythene bags, other biological waste et cetera should be thrown in the BFGI premises and cleanliness has to be maintained.

Yours faithfully,

Er. Gurkirtan Sharma,

Estate Officer,

Baba Farid Group of Institutions,

Bathinda, 151001



BABA FARID COLLEGE OF ENGG. & TECHNOLOGY

Report On Survey of Sewage Line in BFGI

Eligible Students: B.Tech.Civil

Date: 17-March-2022

Duration of Field Work: 01 Day

Faculty Coordinator: Er.Rajan Vinayak (Assistant Professor, Civil)

One day field work entitled “SURVEY OF SEWAGE LINE IN BFGI” was conducted in BFGI premises by the Department of Civil Engineering, Baba Farid College of Engineering and Technology, Bathinda on 17th March, 2022. Four students named Akeel Ahmad Bhat (2073047), Faizan Ali (2073042), Mohd Mubssar (2073056) and Yawar Amin Wani (2073041) prepared sewage line map which is attached in this report.

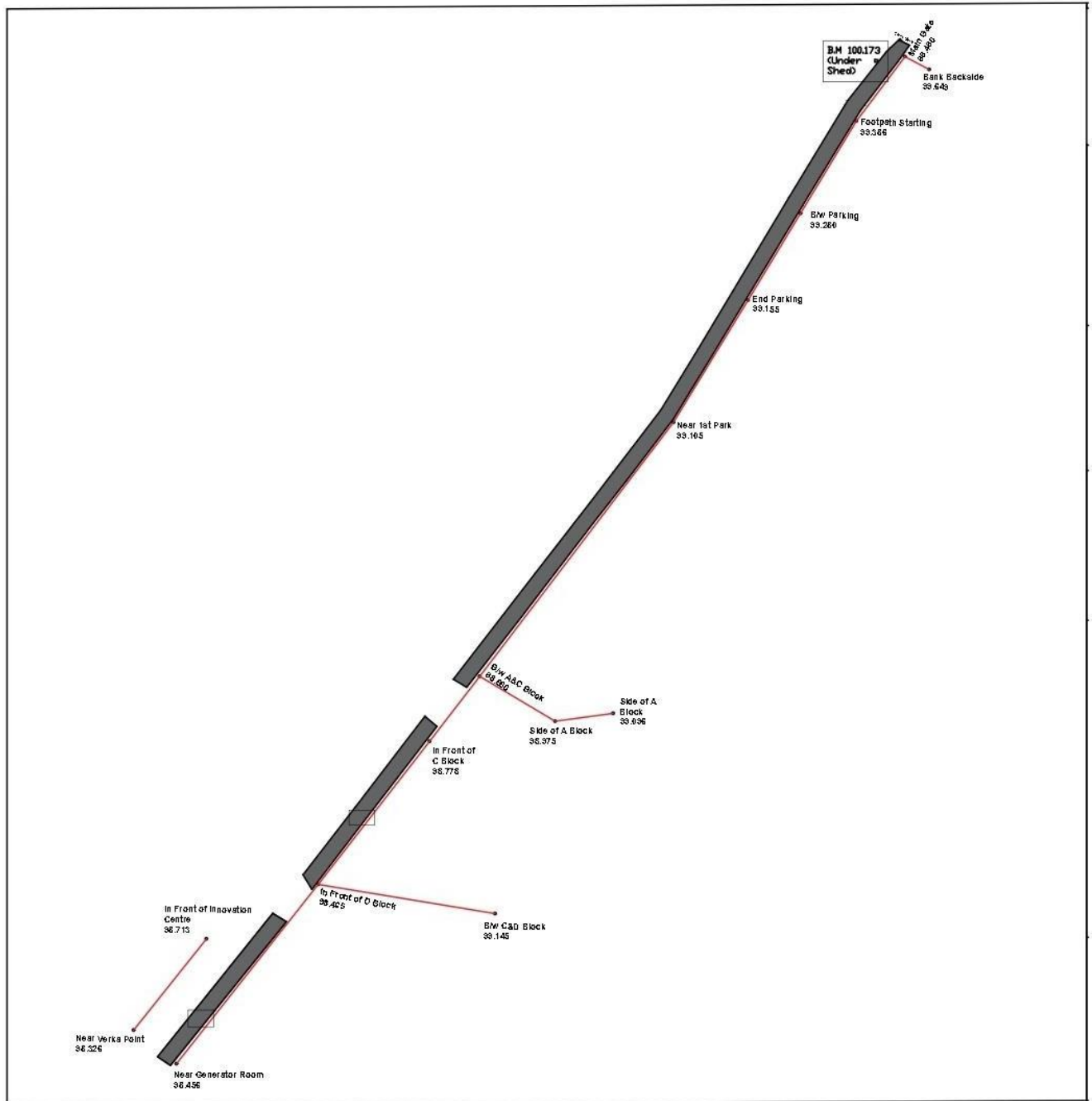
Firstly, students visited at the site and they do preliminary survey and then come up with Main Station points which was required to complete sewage line map with the help of Total Station instrument. Secondly, they setup the instrument on first Main station point and completed temporary setting up of instrument that is centering, levelling and focusing. After that they recorded all the necessary points and prepared a topographical map of sewage line. Although they noticed that pipe lines from different building blocks were connected to sewage line with required levelling. Following were the major objectives which was planned for one day field work.

OBJECTIVES-

- To determine the exact elevation of the sewer line at different points along its length. The Reduced Levels (RLs) are used to plot the sewer line profile and determine the slope or gradient of the line.
- To determine the sewer line has the correct slope to ensure proper flow of wastewater or having backflow at some point.
- To identify any low points or sags in the line that may cause blockages or slow down the flow of wastewater.

- To detect any areas where the sewer line may be too steep, which can cause erosion or instability over time.

PLAN FOR FUTURE MAINTENANCE AND REPAIR WORK-



Reduced Levels of points covered during Survey of Sewage line in BFGI, Bathinda



PHOTOGRAPHS-



Setting up of instrument by Civil student



Surveying of Sewage Line in BFGI premises



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OUTCOMES-

- Field work improved the knowledge and skills of students in making accurate measurements and creating detailed topographic map using total station equipment.
- The students calculated all the reduced levels (RLs) that are required to determine the proper elevation of the sewage pipe line in the BFGI premises.
- The students identified the low points and sags during sewage line measurement.
- During basic line measurement by students it was found that sewage pipe line was accurate and fully connected to all building blocks in BFGI premises.