

Practical No: 20 Prepare traverse using Plane table Surveying.

I. Practical Significance:

When the considerable area to be surveyed and available time is less than this traversing method plane table surveying is the most suitable method. In large area important points surveyed or not are quickly identified. Field work & plotting work is done simultaneously in plane table survey. Concept of orientation of plane tabling is very well understood during the process. After knowing method of plane tabling students will be able to select appropriate method of surveying as per situation.

II. Industry/Employer expected outcome(s):

- Prepare plan by plane table survey with present field situation.

III. Course Level Learning Outcome (COs):

- CO 5- Prepare the plan using Plane Table Surveying to locate relevant details.

IV. Laboratory Learning Outcome (LLO):

- LLO 20.1 Use plane table survey to prepare plan and locate details by using Traversing Method

V. Relevant Affective Domain related Outcome(s):

- Using Safe behaviors effectively.
- Maintain high standards of hygiene.
- Efficient application of tools, equipment's and machinery.
- Professional and ethical standards.

VI. Relevant Theoretical Background:

Parallelism is the principle of plane table survey. Information of all the accessories of plane table and their use is necessary. Similarly different methods of plane tabling with their suitability under different field situation must be known. Traversing method is generally adopted when considerable area to be surveyed and available time is less.

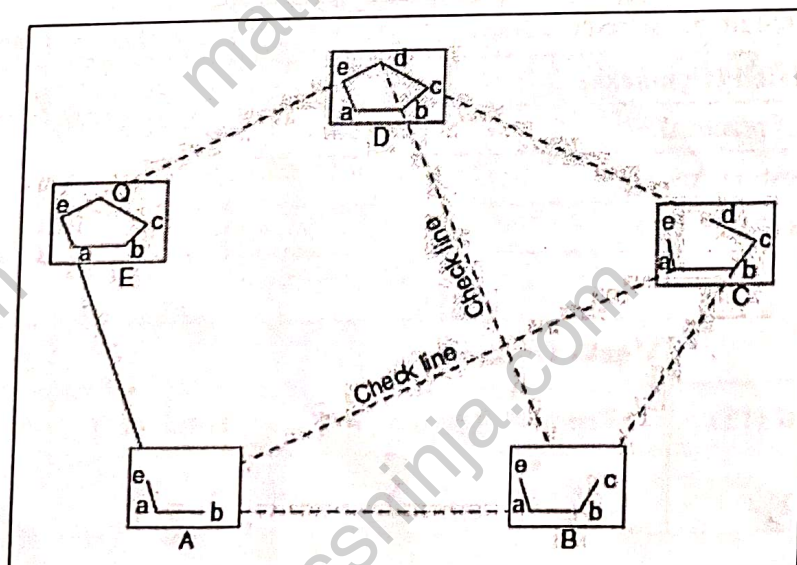


Figure No. 20.1 Traversing method of Plane Table Survey

Surveying (312339)

X. Results:

- Polygon plotted drawing sheet.

XI. Interpretation of results: after plotting you can check the accuracy of the traverse by drawing check lines and assessing.

XII. Conclusions:

prepare traverse using plane table surveying.

XIII. Practical Related Questions:

1. State the suitability of Traversing method
2. Which method of orientation is more accurate? Justify.

Space for Answer

Q. 1 \longrightarrow ?

Ans:- Traversing is suitable for establishing a network of horizontal control points, particularly useful for surveys involving linear features like roads, canals, or coastlines, or for establishing boundaries.

Q. 2) \longrightarrow ?

Ans- The solar observation method is generally considered the most accurate method for orientation in plane table surveying.

XIV. Assessment Scheme

Sr. No.	Performance Indicators	Weightage	Marks Obtained
A.	Process Related (15 marks)	60%	
1.	Handling of equipment's & Survey Conduction	40%	
2.	Accuracy in length measurement.	20%	
B.	Product Related (10 marks)	40%	
3.	Conclusion of practical	20%	