Practical No: 19 Prepare plans and locate details using Intersection Method.

I. Practical Significance:

When the survey work is to be completed within available time & field situations are very difficult for chaining then this method of plane table is significant. When chaining is difficult, intersection method of plane tabling is significant. The knowledge of locating inaccessible points/stations is necessary. The plane table surveying is the fast method of surveying. In plane table surveying plotting of the plan and field observations can be done simultaneously. When chaining work has to reduce then intersection method of plane tabling is used.

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 19.1 Use plane table survey to prepare plan and locate details by using Intersection 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 wi their use is necessary. Similarly different methods of plane tabling with their suitability under differe field situation must be known. Intersection method is generally adopted to locate inaccessib points/stations, horizontal distance between the points on different banks of river, points separated to deep valleys, etc. are to be determined.

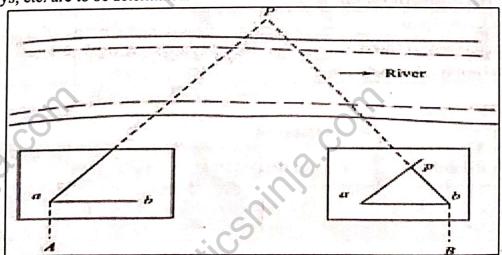


Figure No. 19.1 Intersection method of Plane Table Survey

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Product Related (10 marks)

Conclusion of practical