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| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | **Staff Reading (m)** | | **Next HI=**  **last HI+(BS-FS)** | **Next RL**  **=** |  | |  | **B.S** | **F.S** | | **A** | **2.365** |  | **100+2.365**  **=**  **102.365** | **100.000** | **(BM)** | | **S1** | **0.685** | **1.235** | **102.365+**  **(0.685-1.235)**  **=**  **101.815** | **102.365-1.235**  **=**  **101.130** | **T.P** | | **S2** | **1.745** | **3.570** | **101.815+**  **(1.745-3.570)**  **=**  **99.990** | **101.815-3.570**  **=**  **98.245** | **T.P** | | **B** |  | **2.340** |  | **99.990-2.340**  **=**  **97.650** |  |   **H.I Method (Height of Instrument)**  **Checking…….**  **∑BS - ∑FS = RL @ last point - RL @1st point**  **(2.365+0.685+1.745)-(1.235+3.570+2.340)=97.650-100.000**  **4.795-7.145=97.650-100.000**  **-2.35=-2.35**  **ملاحظة: ان هذا الـ check لا يشترط بان تكون الاعمال الحقلية صحيحة ولكن يعني صحة الاعمال الحسابية المكتبية فقط.** |
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| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Points** | **Staff reading (m)** | |  | | **Next RL**  **=** | **Remarks** | | **BS (m)** | **FS (m)** | **if + Rise** | **if - Fall** | **RL (m)** | | **A** | **2.365** | **No reading** | **----** | **----** | **100.000** | **BM** | | **S1** | **0.685** | **1.235** | **2.365-1.235=**  **1.130** |  | **100+1.130=**  **101.13** | **TP** | | **S2** | **1.745** | **3.570** |  | **0.685-3.570=**  **2.885** | **101.130-2.885=**  **98.245** | **TP** | | **B** | **No reading** | **2.340** |  | **1.745-2.340=**  **0.595** | **98.245-0.595=**  **97.650** | **Required B.M** |   **Rise and Fall Method**  **Checking…….**  **∑BS - ∑FS = ∑Rise - ∑Fall =RL @ last point - RL @1st point**  **(2.365+0.685+1.745)-(1.235+3.570+2.340)=(1.13)-(2.885+0.595)=97.650-100.000**  **= -2.35**  **ملاحظة: ان هذا الـ check لا يشترط بان تكون الاعمال الحقلية صحيحة ولكن يعني صحة الاعمال الحسابية المكتبية.** |
| **Height of Instrument**   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Points** | **Staff Reading (m)** | | | **Next HI=last HI+(BS-FS)** | **Next RL**  **=** | **Remarks** | | **Backsight** | **Intermediate**  **Sight (IS)** | **Foresight** | | **Datum** | **2.554** |  |  | **50.000**  **+2.554**  **=52.554** | **50.000** | **BM** | | **A** |  | **1.783** |  | **52.554** | **52.554**  **-1.783**  **=50.771** |  | | **B** |  | **0.926** | **HI for IS =last HI** | **52.554** | **52.554**  **-0.926**  **=51.628** |  | | **C** |  | **1.963** |  | **52.554** | **52.554**  **-1.963**  **=50.591** |  | | **D** | **1.305** |  | **3.587** | **52.554**  **+(1.305-**  **3.587)=**  **50.272** | **52.554**  **-3.587**  **=48.967** | **TP** | | **E** |  | **1.432** | **HI for IS =last HI** | **50.272** | **50.272**  **-1.432**  **=48.840** |  | | **F** | **3.250** |  | **0.573** | **50.272+**  **(3.250-0.573)=**  **52.949** | **50.272**  **-0.573**  **=49.699** | **TP** | | **G** |  | **1.925** | **HI for IS =last HI** | **52.949** | **52.949**  **-1.925**  **=51.024** |  | | **H** | **3.015** |  | **0.496** | **52.949+**  **(3.015-**  **0.496)**  **=55.468** | **52.949**  **-0.496**  **=52.453** | **TP** | | **J** |  |  | **0.780** |  | **55.468-0.780**  **=54.688** |  |   **ملاحظة: ارتفاع الجهاز للنقاط الوسطية هو نفسه للنقطة الخلفية التي تسبقه**  **Checking…**  **∑BS - ∑FS = RL @ last point - RL @1st point=4.688**  Clip_251**ثانيا: بطريقةRise and Fall Method**  **ملاحظة: لا توضع الاشارة السالبة للـ Fall في الجدول لكنها تؤخذ بنظر الاعتبار في الحسابات.**  **Checking…**  **∑BS - ∑FS = ∑Rise - ∑Fall =RL @ last point - RL @1st point**  **4.688** |
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