Simulator Requirement Specification

|  |  |
| --- | --- |
| Department Name | Cvil Engineering |
| Class | S.Y. B. Tech |
| Semester | I |
| Subject Name | Engineering survey |
| Experiment No. | 1 |
| Experiment Name | Study of levelling Instruments |

Version History

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sr. No. | Version Number | Created By | Approved By | Date |
| 1 | v1.0 | Haripriya Desai | Mr. Sheetal Varur Sir | 13/10/2020 |
|  |  |  |  |  |

Detailed Requirement Specification

|  |  |  |  |
| --- | --- | --- | --- |
| **Req. ID** | **Visual Entity Required** | **Requirement Description** | **Comments** |
| 1. | Tripod Stand | Consider two point X and Y at any distance D and place the tripod stand with dumpy level in between X and Y. | Take distance D between X and Y . |
| 2. | Dumpy level | Firstly place the tripod stand with dumpy level near the point X at distance A from X. | Take distance A from X to L |
| 3. | Levelling staff - 2 | Give the reading of X1 and X2 taken with dumpy level from the levelling staff placed at Y |  |
| 4. |  | Secondly place the tripod stand with dumpy level near the point Y at distance B from Y  Give the reading Y1 and Y2 taken with dumpy level from the levelling staff placed atah X | Take distance B from Y to L |
| 5. |  | Show the difference in the set of values as, X1 with X2 and Y1 with Y2 and compare them | Values of X1 , X2 ,Y1 and Y2 depends of distance |
|  |  | If there is any difference after comparing them it consists of some error which is to be removed and if there is no error then no correction required |  |
|  |  | Then calculate the difference of level between X and Y by using the formula;  (Delta)h=((X1-Y1)+(X2-Y2))/2 | Give the value as difference in level of two point X and Y |