**TEST CASES**

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| S.NO.**.** | ACTION | INPUT | EXPECTED OUTPUT | ACTUAL OUTPUT | BROWSER | TEST RESULT |
| 1 | Launch Application | mouthpiece.html | HTML web page opens on a local server | Web page opened successfully | Google Chrome | PASS |
| 2 | Starting the simulation | Click on “START” Button | Animation starts and the simulation begins | Animation started successfully. | Google Chrome | PASS |
| 3 | Stopping the simulation before completion | Click on “RESET” Button | Page reloads | Page reloaded | Google Chrome | PASS |
| 4 | Going to the calculation section | Click on “CALCULATION” Button | Page scrolls down to the calculation section | Page scrolled down | Google Chrome | PASS |
| 5 | Clicking “SUBMIT” with empty value in the from | Click on “SUBMIT” Button | Placeholder highlights with message “Please fill in this field”l | Placeholder highlighted with alert message | Google Chrome | PASS |
| 6 | Filling all valid values in from | Click on “SUBMIT” Button | The values get submitted and the “Plot Graph” Button gets enabled | The values got submitted and the “Plot Graph” Button gets enabled | Google Chrome | PASS |

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| S.NO.**.** | ACTION | INPUT | EXPECTED OUTPUT | ACTUAL OUTPUT | BROWSER | TEST RESULT |
| 7 | Filling the negative values in the form | Click on “SUBMIT” Button | Placeholder highlights with message “Value must be greater or equal to 0” | Placeholder highlighted with alert message | Google Chrome | PASS |
| 8 | Resetting values in the from | Click on the “RESET” Button | The form entries get cleared up | The form gets cleared up and the page reloads | Google Chrome | PASS |
| 9 | Plotting the graph with some unfilled entronies | Click on the “PLOT GRAPH” Button | An empty graph gets drawn | An empty graph gets built up | Google Chrome | PASS |
| 10 | Plotting the graph with all the valid entries | Click on the “PLOT GRAPH”  Button | The graph between rate of discharge and height builds up | The appropriate graph is built up | Google Chrome | PASS |