**Calibration of ADA with large instances**

|  |  |
| --- | --- |
| Parameter |  |
| Random Movement : S | 4 – 5 - 6 |
| Destruction size : d | 19 - 20 - 21 |
| Temperature factor: T1 | 0.6743 - 1.6743 - 2.6743 |
| Temperature factor : T2 | 0.4124 - 0.9124 - 1.4124 |

We have 81 combinations \* 10 replications for each instance \*144 Instances

**Analysis of Variance**

**Analysis of**

**Variance for RDI -**

**Type III Sums of**

**Squares**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *Source* | *Sum of Squares* | *Df* | *Mean Square* | *F-Ratio* | *P-Value* |
| MAIN EFFECTS |  |  |  |  |  |
| A:S | 2453.32 | 2 | 1226.66 | 1.71 | 0.1805 |
| B:d | 842.764 | 2 | 421.382 | 0.59 | 0.5554 |
| C:T1 | 6274.49 | 2 | 3137.24 | 4.38 | 0.0125 |
| D:T2 | 69480.0 | 2 | 34740.0 | 48.49 | 0.0000 |
| INTERACTIONS |  |  |  |  |  |
| AB | 46300.0 | 4 | 11575.0 | 16.15 | 0.0000 |
| AC | 57212.6 | 4 | 14303.1 | 19.96 | 0.0000 |
| AD | 41940.1 | 4 | 10485.0 | 14.63 | 0.0000 |
| BC | 26224.5 | 4 | 6556.11 | 9.15 | 0.0000 |
| BD | 100423. | 4 | 25105.7 | 35.04 | 0.0000 |
| CD | 18762.6 | 4 | 4690.64 | 6.55 | 0.0000 |
| RESIDUAL | 8.35488E7 | 116607 | 716.499 |  |  |
| TOTAL (CORRECTED) | 8.39187E7 | 116639 |  |  |  |

All F-ratios are

based on the

residual mean

square error.

1. **TempFactor2 : T2**

****

T2= 0.9124 is better

1. **TempFactor1: T1**

****

T1 = 1.6743 is better

**3- Random movement: S**



S is not significant we study interactions



From interaction we can put S= 6

**4-** Destruction size: d



d is not significant we study interaction



By looking at the interaction we see that d=21 is better

Final parameter

D = 21

S = 6

T1 = 1.6743

T2= 0.9124