

LIST OF TABLES

Table I.1 Fleet Type	2
Table I.2 Delivery Delay Frequency	3
Table I.3 One Day Distribution route	4
Table II.1 Colt Diesel Engkle (CDE).....	14
Table II.2 Colt Diesel Double (CDD)	15
Table IV.1 Fleet Characteristics.....	31
Table IV.2 Customer Location.....	32
Table IV.3 Time Window	34
Table IV.4 Customer Demand	36
Table IV.5 Observation of Service Time	38
Table IV.6 Service Time	39
Table IV.7 Speed Calculation of CDD	57
Table IV.8 Edequacy Test of CDD	58
Table IV.9 Conformity Test of CDD	59
Table IV.10 Vehicle Speed	60
Table IV.11 Initial Solution TSP Form.....	62
Table IV.12 First Iteration of Nearest Neighbour Algorithm	63
Table IV.13 Second Iteration of Nearest Neighbour Algorithm.....	63
Table IV.14 Third Iteration of Nearest Neighbour Algorithm.....	64
Table IV.15 Fourth Iteration of Nearest Neighbour Algorithm.....	64
Table IV.16 Initial Solution Distribution Route	65
Table IV.17 Travel Distance and Travel Time of Initial Solution.....	65
Table IV.18 Exchanged Initial Route	66
Table IV.19 Neighborhood Solution Comparison	66
Table IV.20 After Transfer Solution Comparison	67
Table IV.21 Suggestion Distribution Route.....	68
Table IV.22 Travel Distance and Travel Time of Suggestion Route.....	69
Table IV.23 Result Verification.....	69
Table V.1 Existing Distribution Route	71

Table V.2 Travel Distance and Time of Suggestion Distribution Route	72
Table V.3 Vehicle Utilization Comparison.....	73
Table V.4 Travel Distance Comparison.....	74
Table V.5 Travel Time Comparison	75
Table V.6 Customer Arrival Time in Route 1	76
Table V.7 Customer Arrival Time in Route 2	77
Table V.8 Customer Arrival Time in Route 3	78
Table V.9 Customer Arrival Time in Route 4	78
Table VI.1 Research Result	80