## LIST OF TABLES

<table>
<thead>
<tr>
<th>Figures</th>
<th>Title</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table 2.1:</td>
<td>Indian Vegetable Industry: Opportunities- Challenges and Strengths-Weaknesses</td>
<td>34</td>
</tr>
<tr>
<td>Table 2.2:</td>
<td>From Traditional Agriculture to Technical Agriculture</td>
<td>42</td>
</tr>
<tr>
<td>Table 3.1:</td>
<td>Advantages and disadvantages of vertical integration (Ellram, 1991)</td>
<td>59</td>
</tr>
<tr>
<td>Table 3.2:</td>
<td>List of Variables and Constructs for the Study</td>
<td>83</td>
</tr>
<tr>
<td>Table 4.1:</td>
<td>Sample Size Selection using Sample Effect Size</td>
<td>102</td>
</tr>
<tr>
<td>Table 4.2:</td>
<td>Vegetable Producing States Ranking List</td>
<td>114</td>
</tr>
<tr>
<td>Table 5.1:</td>
<td>Respondent’s Profile (Expert)</td>
<td>122</td>
</tr>
<tr>
<td>Table 5.2:</td>
<td>Respondent’s Profile (Expert)</td>
<td>123</td>
</tr>
<tr>
<td>Table 5.3:</td>
<td>Vertical Coordination Variables (Sample Statistics) for Expert</td>
<td>125</td>
</tr>
<tr>
<td>Table 5.4:</td>
<td>T-Test to Vertical Coordination Variables for Expert</td>
<td>126</td>
</tr>
<tr>
<td>Table 5.5:</td>
<td>T-Test to Vertical Coordination Effect Variables (Individual) for Expert</td>
<td>127</td>
</tr>
<tr>
<td>Table 5.6:</td>
<td>Vertical Coordination Effect Variables Consolidated (Sample Statistics) for Expert</td>
<td>129</td>
</tr>
<tr>
<td>Table 5.7:</td>
<td>T-Test to Vertical Coordination Effect Variables Consolidated for Expert</td>
<td>130</td>
</tr>
<tr>
<td>Table 5.8:</td>
<td>Regression for Expert (VC Importance to VC Effect)</td>
<td>131</td>
</tr>
<tr>
<td>Table 5.9:</td>
<td>Respondent’s Profile (Producer)</td>
<td>132</td>
</tr>
<tr>
<td>Table 5.10:</td>
<td>Frequency and Percentage of Vegetables in Operation for Producer</td>
<td>134</td>
</tr>
<tr>
<td>Table 5.11:</td>
<td>Frequency and Percentage of Duration in Operation for Producer</td>
<td>137</td>
</tr>
<tr>
<td>Table 5.12:</td>
<td>One way ANOVA showing the significant impact of Address on factors of Production for Producer</td>
<td>141</td>
</tr>
<tr>
<td>Table 5.13:</td>
<td>One way ANOVA showing the significant impact of Gender on factors of Production for Producer</td>
<td>145</td>
</tr>
<tr>
<td>Table 5.14:</td>
<td>One way ANOVA showing the significant impact of Annual Earning of the Family on factors of Production for Producer</td>
<td>148</td>
</tr>
</tbody>
</table>
Table 5.1: T-Test to Risk Factors for Producer

Table 5.16: One way ANOVA showing the significant impact of Address on factors of Input Support for Producer

Table 5.17: One way ANOVA showing the significant impact of Gender on factors of Input Support for Producer

Table 5.18: One way ANOVA showing the significant impact of Annual Earning of the Family on factors of Input Support for Producer

Table 5.19: T-Test to Market Selection Factors for Producer

Table 5.20: T-Test to Vertical Coordination Variables for Producer

Table 5.21: T-Test to Vertical Coordination Effect Variables for Producer

Table 5.22: Regression (Market & Selling to Vertical Coordination) for Producer

Table 5.23: Regression (Constraints to Vertical Coordination) for Producer

Table 5.24: Regression (Credit & Stock to Vertical Coordination) for Producer

Table 5.25: Regression (Prices & Transaction Cost to Vertical Coordination) for Producer

Table 5.26: Regression (Vertical Coordination to Effect Vertical Coordination) for Producer

Table 5.27: Respondent’s Profile (Intermediary)

Table 5.28: Frequency and Percentage of Vegetables in Operation for Intermediary

Table 5.29: Frequency and Percentage of Value Addition with Vegetables for Intermediary

Table 5.30: One way ANOVA showing the significant impact of Address on factors of Volumes and Flows 1 for Intermediary

Table 5.31: One way ANOVA showing the significant impact of Gender on factors of Volumes and Flows 1 for Intermediary

Table 5.32: One way ANOVA showing the significant impact of Yearly Earning on factors of Volumes and Flows 1 for Intermediary

Table 5.33: One way ANOVA showing the significant impact of Address on factors of Volumes and Flows 2 for Intermediary
Table 5.34: One way ANOVA showing the significant impact of Gender of the on factors of Volumes and Flows 2 for Intermediary
184
Table 5.35: One way ANOVA showing the significant impact of Yearly Earning on factors of Volumes and Flows 2 for Intermediary
185
Table 5.36: T-Test to Vertical Coordination Variables for Intermediary
186
Table 5.37: T-Test to Vertical Coordination Effect Variables for Intermediary
187
Table 5.38: Regression (Volumes and Flows to Vertical Coordination) for Intermediary
189
Table 5.39: Regression (Constraints to Vertical Coordination) for Intermediary
190
Table 5.40: Regression (Credit & Stock to Vertical Coordination) for Intermediary
191
Table 5.41: Regression (Prices & Transaction Cost to Vertical Coordination) for Intermediary
192
Table 5.42: Regression (Vertical Coordination to Effect Vertical Coordination) for Intermediary
193
Table 5.43: Paired Samples Test of Storage on Producer and Intermediary
194
Table 5.44: Paired Samples Test of Storage Cost on Producer and Intermediary
196
Table 5.45: Paired Samples Test of Price Correction on Producer and Intermediary
198
Table 5.46: Paired Samples Test of Purchase Price on Producer and Intermediary
199
Table 5.47: Paired Samples Test of Sales Price on Producer and Intermediary
203
Table 5.48: Paired Samples Test of Vertical Coordination Variables Producer and Intermediary
204
Table 5.49: Paired Samples Test of Vertical Coordination Effect Variables Producer and Intermediary
207
Table 6.1: Frequency and Percentage of Producer Characteristics
232
Table 6.2: Frequency and Percentage of Intermediary Characteristics
233
Table 6.3: T-Test to Marketing Participation for Producer
236
Table 6.4: T-Test to Marketing Participation for Intermediary
239
LIST OF ABBREVIATIONS

GDP  Gross Domestic Product
LPG  Liberalized Privatized and Globalized
FDI  Foreign Direct Investment
IRR  Internal rate of Return
NPV  Net Present Value
ARI  Agricultural Research Institutes
E-commerce  Electronic Commerce
NABARD  National Agricultural Bank for Rural Development
PSCV  Producer Supply Chain Variables
ISCV  Intermediary Supply Chain Variables
VCV  Vertical Coordination Variables
VCEV  Vertical Coordination Effect Variables
ANOVA  Analysis of Variance
AMOS  Analysis of Moment Structures
NVI  National Vegetable Initiative
MSP  Minimum Support Price
EU  European Union
US  United States
GATT  General Agreement of Trade and Tariffs
WTO  World Trade Organization
NAFTA  North American Free Trade Agreement
IMF  International Monetary Fund
VCVSC  Vertically Coordinated Vegetable Supply Chain
VSC  Vegetable Supply Chain
SCM  Supply Chain Management
SC  Supply Chain
VCVSCS  Vertically Coordinated Vegetable Supply Chain Systems
NIE  New Institutional Economics
FAO  Food and Agriculture Organization
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAC</td>
<td>Technical Advisory Committee</td>
</tr>
<tr>
<td>CGIAR</td>
<td>Consultative Group on International Agricultural Research</td>
</tr>
<tr>
<td>SHG</td>
<td>Self Help Group</td>
</tr>
<tr>
<td>FC</td>
<td>Farmer’s Cooperatives</td>
</tr>
<tr>
<td>APMC</td>
<td>Agricultural Produce Market Committee</td>
</tr>
<tr>
<td>NHB</td>
<td>National Horticulture Board</td>
</tr>
<tr>
<td>NVI</td>
<td>National Vegetable Initiative</td>
</tr>
<tr>
<td>OUAT</td>
<td>Odisha University of Agriculture and Technology</td>
</tr>
<tr>
<td>NGO</td>
<td>Non-Governmental Organization</td>
</tr>
<tr>
<td>SPSS</td>
<td>Statistical Package for the Social Sciences</td>
</tr>
</tbody>
</table>