Appendix A
### Knowledge structure of **TEAPEST**

**CLASS : DOMAIN**

<table>
<thead>
<tr>
<th>OBJECT : Site of Damage</th>
<th>ATTRIBUTE : Young leaf</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Matured leaf</td>
</tr>
<tr>
<td></td>
<td>Both leaf</td>
</tr>
<tr>
<td></td>
<td>Bud</td>
</tr>
<tr>
<td></td>
<td>Tender stem</td>
</tr>
<tr>
<td></td>
<td>Stem</td>
</tr>
<tr>
<td></td>
<td>Tender stem and buds</td>
</tr>
<tr>
<td></td>
<td>Young leaf and bud</td>
</tr>
<tr>
<td></td>
<td>Not Clear</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OBJECT : Leaf Appearance</th>
<th>ATTRIBUTE : Dry up</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Leathery</td>
</tr>
<tr>
<td></td>
<td>Dust as white particles</td>
</tr>
<tr>
<td></td>
<td>Curved downwards</td>
</tr>
<tr>
<td></td>
<td>Curved upwards</td>
</tr>
<tr>
<td></td>
<td>Tied up to gather</td>
</tr>
<tr>
<td></td>
<td>Rolled</td>
</tr>
<tr>
<td></td>
<td>Pasted one above another</td>
</tr>
<tr>
<td></td>
<td>Crinkled &amp; curled</td>
</tr>
<tr>
<td></td>
<td>Deformed</td>
</tr>
<tr>
<td></td>
<td>Margin recurved and brown</td>
</tr>
<tr>
<td></td>
<td>Withered</td>
</tr>
<tr>
<td></td>
<td>Normal</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OBJECT : Leaf Colour Turning</th>
<th>ATTRIBUTE : Copper bronze</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yellow</td>
</tr>
<tr>
<td></td>
<td>Pale</td>
</tr>
<tr>
<td></td>
<td>Purple bronze</td>
</tr>
<tr>
<td></td>
<td>Bronze</td>
</tr>
<tr>
<td></td>
<td>Brown</td>
</tr>
<tr>
<td></td>
<td>Normal</td>
</tr>
<tr>
<td>OBJECT</td>
<td>Attribute</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>Leaf Spot</td>
<td>Light brown ring or spot</td>
</tr>
<tr>
<td></td>
<td>Dark brown ring or spot</td>
</tr>
<tr>
<td></td>
<td>Yellow dots</td>
</tr>
<tr>
<td></td>
<td>Reddish brown dot</td>
</tr>
<tr>
<td></td>
<td>Reddish brown patch</td>
</tr>
<tr>
<td></td>
<td>Sand papery lines</td>
</tr>
<tr>
<td></td>
<td>Reddish dots</td>
</tr>
<tr>
<td></td>
<td>Not found</td>
</tr>
<tr>
<td>Leaf Eaten</td>
<td>Irregular perforation</td>
</tr>
<tr>
<td></td>
<td>Bites of the edges</td>
</tr>
<tr>
<td></td>
<td>Eaten away from margin</td>
</tr>
<tr>
<td></td>
<td>Epidermal eaten away</td>
</tr>
<tr>
<td></td>
<td>Eaten away partially</td>
</tr>
<tr>
<td></td>
<td>Skeltonized leaves</td>
</tr>
<tr>
<td></td>
<td>No eaten mark</td>
</tr>
<tr>
<td>Mid Rib Colour</td>
<td>Normal</td>
</tr>
<tr>
<td></td>
<td>Brownish</td>
</tr>
<tr>
<td></td>
<td>Under side brownish</td>
</tr>
<tr>
<td></td>
<td>Pink</td>
</tr>
<tr>
<td></td>
<td>Not detected</td>
</tr>
<tr>
<td>Edge Colour</td>
<td>Normal</td>
</tr>
<tr>
<td></td>
<td>Pinkish</td>
</tr>
<tr>
<td></td>
<td>Brownish</td>
</tr>
<tr>
<td>Tip Colour</td>
<td>Normal</td>
</tr>
<tr>
<td></td>
<td>Pink</td>
</tr>
<tr>
<td></td>
<td>Brownish</td>
</tr>
<tr>
<td>Vein Colour</td>
<td>Pinkish</td>
</tr>
<tr>
<td></td>
<td>Brownish</td>
</tr>
<tr>
<td></td>
<td>Normal</td>
</tr>
</tbody>
</table>
OBJECT : Finger Tip Test
ATTRIBUTE : Green Smears
          Red Smears
          Not tested

OBJECT : Bush Appearance
ATTRIBUTE : New flush stunted
          Die back symptom
          Swelling symptom
          Sick or wilting
          Cut off near ground
          Mud runs on frame
          Chlorosis symptom
          Defoliation
          Tender Shoot die_back
          None of the above

OBJECT : Insect under Mag Glass
ATTRIBUTE : Red and round
          Pink and Carrot like

OBJECT : Stem with
ATTRIBUTE : Small hole
          Spiral run
          Bark damage on patches
          Portion covered with silken web
          Pinkish oval pellets on ground
          Pin head holes
          Swelling
          Bark damage with callus growth
          Group of insects on stem

OBJECT : Root with
ATTRIBUTE : Swelling or gulls
          Bark damage in collar area
          Callus is found
          Wood below callus exposed
OBJECT : Leaf Surface
ATTRIBUTE : Upper
    Lower
    Both
    Not Relevant

OBJECT : Insect with
ATTRIBUTE : Length 12 to 15 mm
    Length 15 to 20 mm
    Length 20 to 25 mm
    Length 15 to 30 mm
    Length 40 to 50 mm
    Length 55 to 65 mm
    Length 70 to 78 mm
    Not measured

OBJECT : Covered with
ATTRIBUTE : Hairs
    No hairs
    Not relevant

OBJECT : Body colour
ATTRIBUTE : Light yellow
    Twany yellow
    Dirty white
    Brownish or brick red
    Dark brown
    Light green
    Brownish gray
    Blackish brown
    Grayish black
    Mottled light and dark brown
    Pale yellow
OBJECT: Special identity 1
ATTRIBUTE: Reddish tinge
   Greenish white lines
   Brownish tinge
   Black patches
   Greenish tinge
   Blackish brown transverse lines
   Yellowish longitudinal lines
   Sub dorsal stripes
   Reddish spots on 6 to 7 abd seg
   Speckled with white dots
   Black spot on abd seg
   Broad white band on 1st tho seg
   Covered with black hairs
   Brownish hairs on last abd seg
   Covered with white hairs
   Under surface orange

OBJECT: Special identity 2
ATTRIBUTE: Last 3 abd seg dialated
   End pair prolegs largest
   Claspers at hind end
   Reddish head
   Blackish brown head
   Cluster of pests on branches
   Head pale brown

OBJECT: Last Attacked by
ATTRIBUTE: Red Spider
   Scarlet Mite
   Purple Mite
   Pink Mite
   Helopeltis
   Jassid
   Thrips
   Aphid
   Looper
   Red Slug
   Bunch
   Euproctis
   Orygia sp
   Termite
<table>
<thead>
<tr>
<th>OBJECT</th>
<th>ATTRIBUTE</th>
</tr>
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<tbody>
<tr>
<td>Current Month</td>
<td>January</td>
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<tr>
<td></td>
<td>February</td>
</tr>
<tr>
<td></td>
<td>March</td>
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<tr>
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<td>April</td>
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<tr>
<td></td>
<td>May</td>
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<td>June</td>
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<td>November</td>
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<tr>
<td></td>
<td>December</td>
</tr>
<tr>
<td>Day Temp</td>
<td>High</td>
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<tr>
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<td>Low</td>
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<tr>
<td>Drainage</td>
<td>Good</td>
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<td>Adequate</td>
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<td>Poor</td>
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<tr>
<td>Weed Status</td>
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<td>Shade Status</td>
<td>Dense</td>
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<td>Adequate</td>
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<td>Poor</td>
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<td>Pruning Status</td>
<td>Unpruned</td>
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<td>Skiffed</td>
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<td>Nature of Attack</td>
<td>Severe</td>
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<td></td>
<td>Medium</td>
</tr>
<tr>
<td></td>
<td>Low</td>
</tr>
</tbody>
</table>
OBJECT : Last Mitecide used
ATTRIBUTE : Dicofol
Ethion
Sulphur
Thiometron
Dimethoate
Neem
None

OBJECT : Last Pesticide used
ATTRIBUTE : Endosulphan
Phosalone
Malathion
Monocrotophos
Fenitrothion
Chlorpyriphos
Quinalphos
Synthetic Pyriphroid
Phorate
Phosphamidon
Formothion
Acephate
Neem
Carbofuran
None

OBJECT : Last Attacked by Pest
ATTRIBUTE : Helopeltis
Jassid
Thrips
Aphid
Looper
Red Slug
Bunch
Orygia sp
Euproctis
Termite

OBJECT : Crop Status
ATTRIBUTE : Flushing Period
Non flushing period