Appendix - I

Interview Schedule

Micro Level Spatial Analysis of Grape Cultivation in Latur District
-A Study in Agricultural Geography

1. General Information:
   I) Name of Village ..................Tahsil .................. 
   II) Name of the Farmer .......................... 
   III) Age ..................... Year .................. 
   IV) Number of family members in the house .................. 
   V) Level of literacy : Less than S.S.C..., S.S.C..., H.S.C.... Degree ...... 
   VI) Domestic Appliances : Fridge...... , T.V....... , A.C....... 
   VII) Vehicles : Two wheeler ........ Four wheeler ........ 
   VIII) Agricultural Impliments : 
   IX) Nature of House. 
      i) Concrete ............ ii) Without Concrete ........... 
   X) Experience of Grape Cultivation : Years. 
   XI) Livestock (Animal) 

2. Total Area under Cultivation: ..................hect.
   a) Actual area under cultivation .......... hect. 
   b) Area under Horticulture ............... hect. 
   c) Area under viticulture ............... hect. 
   d) Area under Grape varieties:
      i) Thompson .......... hect. 
      ii) Sonaka .......... hect. 
      iii) Tas-a-Ganesh .... hect. 
      iv) 2-a-Clone .... hect. 
      v) Others ........... hect. 

3. **Establishment Year of Grape Orchard**

<table>
<thead>
<tr>
<th>Life of the present vineyard</th>
<th>Total Area (hect.)</th>
<th>Age (year)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

i) ii) iii)

4. **Information About Soil:**

a) Soil Characters:

i) colour ......................................................

ii) Texture .................................................. % sand

.................................................. % silt

.................................................. % clay

iii) Soil PH: ....................................................

b) Whether soil is tested: i) Before Growing of Grapes:

Yes  No

ii) Reason: ......................................................

......................................................

iii) Results obtained (about composition):

1) Available Nitrogen .............

2) Available Potash .............

3) Available Phosphate ..........

4) E. Conductivity .............

5) Organic Matter .............

6) Any Other .............

c) Whether soil is tested after growing of grapes:

Yes  No

1) After how many years ..........

2) Results obtained: (about composition)

PH ......................... & other things .............
d) What changes are required to be made for keeping the production.

5. Information regarding cost of production: (Per Hect.)

A) Fixed Costs:

a) 1) Land Acquisition: Rs.
2) Ploughing: Rs.
3) Layout of Vine Yard: Rs.
4) Digging the pits: Rs.
5) Grape Plantation: Rs.
   Total Cost: Rs.

b) Construction of Training System and Type:

1) Steel: Rs.
2) Wire: Rs.
3) Cement: Rs.
4) Bamboo: Rs.
   Total: Rs.

c) Irrigation Facilities:

a) Electric Pumps set: Rs.

b) Pipe-Line for watering: Rs.
c) Irrigation system (drip / any other): Rs.
d) Pipe-Line for Spraying: Rs.

   Total Cost: Rs.
d) Farm House and Packing Shed:
   a) Farm House : ........................................Rs.
   b) Packing material : ..................................Rs.
   c) Packing Shed : ......................................Rs.
   Total Cost : ...........................................Rs.

Grand Total of Fixed Cost : (i.e. total of a to d) .............. Rs.

B) Variable cost : (Per Hectare)

I) Manures and Fertilizers:

<table>
<thead>
<tr>
<th>Qnt</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a)</td>
<td>Organic</td>
<td>.........</td>
</tr>
<tr>
<td>b)</td>
<td>Chemical</td>
<td>.........</td>
</tr>
<tr>
<td>c)</td>
<td>Micronutrients</td>
<td>.........</td>
</tr>
<tr>
<td>d)</td>
<td>Bio-Fertilizers</td>
<td>.........</td>
</tr>
</tbody>
</table>

Total : Qnt.................Amount ..................Rs.

II) Plant Protection:

<table>
<thead>
<tr>
<th>Qnt.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a)</td>
<td>Pesticides</td>
<td>.........</td>
</tr>
<tr>
<td>b)</td>
<td>Fungicides</td>
<td>.........</td>
</tr>
<tr>
<td>c)</td>
<td>Others</td>
<td>.........</td>
</tr>
</tbody>
</table>

Total.................................................. Rs.
III) Total Horticulture Practices: (Cost per hect.)

i) Use of Harmones

<table>
<thead>
<tr>
<th>Name</th>
<th>Qnt.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>GA</td>
<td>...</td>
<td>...</td>
<td>Rs.</td>
</tr>
<tr>
<td>BA</td>
<td>...</td>
<td>...</td>
<td>Rs.</td>
</tr>
<tr>
<td>CCC</td>
<td>...</td>
<td>...</td>
<td>Rs.</td>
</tr>
<tr>
<td>NAA</td>
<td>...</td>
<td>...</td>
<td>Rs.</td>
</tr>
<tr>
<td>CPPU</td>
<td>...</td>
<td>...</td>
<td>Rs.</td>
</tr>
</tbody>
</table>

Total Amount .......... .......... .......... Rs.

ii) Girdling .......... Qnt. .......... Rs.

iii) Thining .......... Rs.

iv) Do you keep temperature/humidity record- Yes/No

Why..................................................
..................................................................
..................................................................
..................................................................
..................................................................

Cost of thermometer/hygrometer .......... Rs.

Total of ........................................ Rs.

IV) Taxes:-

a) Revenue: .......... Rs.

b) Educational cess: .......... Rs.

c) Surcharges: .......... Rs.

d) Others: .......... Rs.

Total Taxes: .......... Rs.
### V) Labour Cost:

<table>
<thead>
<tr>
<th>Unit (No. of Labour Employed)</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Cultivation</td>
<td>......</td>
<td>.......</td>
</tr>
<tr>
<td>b) Weeding</td>
<td>......</td>
<td>.......</td>
</tr>
<tr>
<td>c) Thinning</td>
<td>......</td>
<td>.......</td>
</tr>
<tr>
<td>d) Girdling</td>
<td>......</td>
<td>.......</td>
</tr>
<tr>
<td>e) Spraying</td>
<td>......</td>
<td>.......</td>
</tr>
<tr>
<td>f) Hormone Treatment</td>
<td>......</td>
<td>.......</td>
</tr>
<tr>
<td>g) Marketing</td>
<td>......</td>
<td>.......</td>
</tr>
<tr>
<td>h) Packing</td>
<td>......</td>
<td>.......</td>
</tr>
<tr>
<td>i) Harvesting</td>
<td>......</td>
<td>.......</td>
</tr>
<tr>
<td>j) Watching</td>
<td>......</td>
<td>.......</td>
</tr>
</tbody>
</table>

**Total:..........................Labour  Total .........Amount**

Grand total of variable cost (I,II,III,IV,V) ................................Rs.

**Total Cost of Production i.e. (A+B) ............. ............Rs.**

### 6. Financing for Grape Cultivation:

<table>
<thead>
<tr>
<th>Source</th>
<th>Amount</th>
<th>Rate of Interest</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) L.D.C.C.</td>
<td>......</td>
<td></td>
</tr>
<tr>
<td>b) Land Dev. Bank</td>
<td>......</td>
<td></td>
</tr>
<tr>
<td>c) Co-op. Credit Society</td>
<td>......</td>
<td></td>
</tr>
<tr>
<td>d) National Bank</td>
<td>......</td>
<td></td>
</tr>
<tr>
<td>e) Money Lender</td>
<td>......</td>
<td></td>
</tr>
<tr>
<td>f) Loan from relatives</td>
<td>......</td>
<td></td>
</tr>
<tr>
<td>g) Own funds</td>
<td>......</td>
<td></td>
</tr>
<tr>
<td>h) Any Other Sources</td>
<td>......</td>
<td></td>
</tr>
</tbody>
</table>

**Total:................................Rs.**
7. Employment Pattern:
   a) Permanent Employment .......... Labour ............ Rs. Amount
   b) Seasonal Employment .......... Labour ............ Rs. Amount

8. Production (Per hect.):

<table>
<thead>
<tr>
<th>Variety</th>
<th>Year</th>
<th>Qnt.</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thompson</td>
<td>......</td>
<td>......</td>
<td>......</td>
<td></td>
</tr>
<tr>
<td>Tas-A-Ganesh</td>
<td>......</td>
<td>......</td>
<td>......</td>
<td></td>
</tr>
<tr>
<td>Sonaka</td>
<td>......</td>
<td>......</td>
<td>......</td>
<td></td>
</tr>
<tr>
<td>2 A Clone</td>
<td>......</td>
<td>......</td>
<td>......</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9. Marketing Channels:

                            ............................................................

                            ............................................................

10. Cost of Marketing

    i) Plucking ................................................. Rs.
    ii) Sorting ................................................ Rs.
    iii) Weighing .............................................. Rs.
    iv) Packing ................................................ Rs.
    v) Labeling ............................................... Rs.
    vi) Transport Cost ........................................ Rs.

    Name of the Market Place .................................

    Mode of Transport
    ○ Road
    ○ Railway
    ○ Both

    vii) Commission to Agent ................................. Rs.
    viii) Sales and other taxes ............................. Rs.

    Total cost of Marketing ................................ Rs.
11. Why Grape Cultivation? (Put Mark)
   a) Early production
   b) Long period of production
   c) Regular and assured income
   d) High input-output ratio
   e) Less water requirements
   f) Suitable soil, climate i.e. (geographical factors)
   g) Prestige crop

12. Experience from grape research center and Maharashtra
   Rajya Draksha Bagayatdar Sangh:
   Satisfactory  Yes  No
   Excellent    Yes  No
   Not Satisfactory Yes  No

13. What do you expect from the above centres in future:
   1) ...........................................................
   2) ...........................................................
   3) ...........................................................

   Changes to be Introduced in Near Future
   1) ...........................................................
   2) ...........................................................

   Date: / / (Signature of the Farmer)