BIBLIOGRAPHY
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QUESTIONNAIRE
MARATHWADA UNIVERSITY
DEPARTMENT OF ECONOMICS,
AURANGABAD - MAHARASTRA - 431004

IMPACT OF RURAL ELECTRIFICATION ON SMALL INDUSTRY
AND AGRICULTURAL DEVELOPMENT IN NIZAMABAD DISTRICT. A.P.

QUESTIONNAIRE

VILLAGE SCHEDULE

1. GENERAL.

a) Name of the village

b) Name of the Block

c) Mean of transportation
   and its distance from
   nearest block

d) Population
   i) Males
   ii) Females
   iii) Children

Total

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e) Number of families
   i) Agricultural
   ii) Non-agricultural

Total

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f) Date/Year of village
   electrification

g) Type of soil
II LAND UTILISATION (in acres)

a) Geographical area

b) Forest area

c) Barren and uncultivated land

d) Land put to non-agricultural use

e) Cultivable waste land

f) Permanent pastures, other grazing land

g) Miscellaneous tree crops grown not included in net area sown

h) Current fallows

i) Other fallow land

j) Net area sown

k) Total cropped area

l) Area sown more than once

----------------------------------------

V. IMPROVED AGRICULTURAL PRACTICES FOLLOWED:

a) Use of High yielding varieties

b) Land preparation by tractor

c) Land levelling

d) Weeding by improved implements channels.

e) Linning of field irrigation channels

f) Boarder strip and furrow method of irrigation

g) Lifting water by electric/oil engine pump
h) Use of plant protection chemicals
i) Increased use of fertilizers
j) Threshing by tractor
k) Others

**IRRIGATION PARTICULARS**

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Items</th>
<th>Before energisation</th>
<th>After energisation</th>
</tr>
</thead>
<tbody>
<tr>
<td>01.</td>
<td>Number of irrigation wells</td>
<td></td>
<td></td>
</tr>
<tr>
<td>02.</td>
<td>Area irrigated under wells (acres)</td>
<td></td>
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<tr>
<td>03.</td>
<td>Number of wells energised upto now.</td>
<td></td>
<td></td>
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<tr>
<td>04.</td>
<td>Area irrigated under energised wells (acres)</td>
<td></td>
<td></td>
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<tr>
<td>05.</td>
<td>Net area irrigated (acres)</td>
<td></td>
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<tr>
<td>06.</td>
<td>Area irrigated more than once (acres)</td>
<td></td>
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</tbody>
</table>
I. CREDIT PARTICULARS

Are there any institutions advancing loan for
energisation of Wells.


<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Source</th>
<th>Maximum limit of borrowing</th>
<th>Rate of interest</th>
<th>Period of repayment</th>
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<tbody>
<tr>
<td>01.</td>
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<tr>
<td>02.</td>
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<td>03.</td>
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<td>04.</td>
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<tr>
<td>05.</td>
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</tbody>
</table>

VII. GENERAL OBSERVATIONS:

HOLDING SCHEDULE

Identification particulars:

Village : 
Block : 
Taluka : 
Name of the Cultivator : 

PARTICULARS OF CULTIVATOR AND HIS FAMILY

a) Status of the Cultivator:
   (Owner/Tenant/Landed Agriculture labour) : 

b) Type of Cultivator :
   (Progressive/Traditional) 

c) Educational standard :

Contd.
d) Family particulars

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Adults</th>
<th>Children less than 15 years</th>
<th>Total</th>
<th>Worker Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>Males</td>
<td></td>
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<tr>
<td>Females</td>
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<tr>
<td>Total</td>
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</tbody>
</table>

e) Permanent labour employed:

<table>
<thead>
<tr>
<th>Type</th>
<th>Wages paid per year</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Cash Kind Value Perquisites Value Total paid</td>
</tr>
<tr>
<td></td>
<td>Rs. Qty. Rs. Rs.</td>
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</tbody>
</table>

Adult

Boy

II FARM ASSETS

Indicate which of the following farm assets are owned by the farmer

<table>
<thead>
<tr>
<th>Item</th>
<th>Area (hectares)</th>
<th>Present value per unit</th>
<th>Total value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item</td>
<td>area number unit</td>
<td>Rs.</td>
<td>Rs.</td>
</tr>
</tbody>
</table>

A) Land:

a) Irrigated

b) Irrigated dry

c) Unirrigated

d) Others

Contd..
B) Farm Buildings:

a) Cattle shed
   i) Pucca (permanent)
   ii) Mutcha (temporary)

b) Implements and store shed:
   i) Pucca
   ii) Kutcha

c) Others:
   i) Pucca
   ii) Kutcha

C) Wells:

a) Shallow

b) Tube

c) Filter point

d) Others

D) Machinery and implements:

a) Improved:
   i) Tractor & accessories
   ii) Elec. Motor pump
   iii) Oil engine
   vi) M.B. plough
   v) Discharrow
   vi) Cultivators
   vii) Levellers
   viii) Push-hoc
   ix) Others

b) Traditional:
   i) Carts
   ii) Others(Ploughs, eses, cuober etc.)

c) Dead stock
   (gunny bags, baskets etc.)

Contd..
E. Livestock:
   a) Work cattle
   b) Milch cattle
   c) Others

Total value of Assets

---

### III LAND USE

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Irrigated</th>
<th>Unirrigated</th>
<th>Others</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Irrigated</td>
<td>Unirrigated</td>
<td>Others</td>
<td>TOTAL</td>
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<thead>
<tr>
<th></th>
<th>Dry</th>
<th>Gated</th>
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<tbody>
<tr>
<td>01. Owned</td>
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<tr>
<td>02. Leased in</td>
<td></td>
<td></td>
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<tr>
<td>03. Leased out</td>
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<tr>
<td>04. Net area cultivated</td>
<td></td>
<td></td>
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<tr>
<td>05. Area cropped more than once</td>
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<tr>
<td>06. Gross area sown</td>
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</table>

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<table>
<thead>
<tr>
<th>Before</th>
<th>After</th>
<th>Difference</th>
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<table>
<thead>
<tr>
<th>07. Irrigated area under wells</th>
<th>Irrigated</th>
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</thead>
<tbody>
<tr>
<td>08. Value of land</td>
<td></td>
</tr>
</tbody>
</table>

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### IV HISTORY OF ENERGISED WELL:

a) Whether the well existed before electrification
   YES/NO

b) If so, motive power used for lifting water before energisation:
   Mohite/Oil-engine/Manual/Any other (specify)
   Contd.
c) Reasons for shifting to electricity
   i) Base in lifting water
   ii) Less cost
   iii) Others (specify)

d) Source of motivation for shifting to electricity (when it was energised)

e) Date of energisation of well/wells

f) Date of application for energisation

g) Reason for time gap, if any:
   i) Lack of funds
   ii) Delay on the part of APSEB
   iii) Lack of interest
   iv) Scarcity of material
   v) Lack of coordination among different agencies
   vi) Any other (specify)

h) Difficulties encountered in switching over/starting with the use of power for irrigation.
   i) Time taken and difficulties in raising finance for investment
   ii) Time taken and difficulties in obtaining electrical connections
V crops raised under the well with area under each crop: [in acres]

<table>
<thead>
<tr>
<th>Crops</th>
<th>Season I</th>
<th>Season II</th>
<th>Season III</th>
<th>Yield/Qt/Ha</th>
<th>Season I</th>
<th>Season II</th>
<th>Season III</th>
<th>Yield/Qt/Ha</th>
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VI IMPROVED AGRICULTURAL PRACTICES FOLLOWED:

<table>
<thead>
<tr>
<th>No.</th>
<th>Name of the practice</th>
<th>Season</th>
<th>Crops</th>
<th>Reasons for non-adopted</th>
<th>Season</th>
<th>Crops</th>
<th>Reasons for non-adopted</th>
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<td>Kharif</td>
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<td>Rabi</td>
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<tr>
<td>01</td>
<td>Use of HYVs</td>
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<tr>
<td>02</td>
<td>Land preparation by tractor</td>
<td></td>
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<td>03</td>
<td>Land levelling by improved levellers</td>
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<tr>
<td>04</td>
<td>Weeding by improved implements</td>
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<td>05</td>
<td>Limning of Field irrigation channels</td>
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<td>06</td>
<td>Border strip and furrow method of irrigation</td>
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<tr>
<td>07</td>
<td>Lifting water by electric/oil-engine pump</td>
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<td>08</td>
<td>Use of plant protection chemicals</td>
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<td>09</td>
<td>Increased use of fertilizers</td>
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<td>10</td>
<td>Threshing by tractors</td>
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<td>11</td>
<td>Others</td>
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<tr>
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<tr>
<td>01. Preparatory cultivation</td>
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<td>02. Nursery raising and transplantation</td>
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<td>03. Manuring</td>
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<td>05. Weeding and other cultural operations</td>
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<td>06. Harvesting</td>
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<td>08. Others</td>
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</table>
### VIII LABOUR UTILISATION (Present Cropping Scheme)

<table>
<thead>
<tr>
<th>S.No</th>
<th>Operation</th>
<th>Crop 1</th>
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<th>Crop 3</th>
<th>Crop 4</th>
<th>Crop 5</th>
<th>Crop 6</th>
<th>Crop 7</th>
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<td>a) Hired (P+C)*</td>
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<td>d) Own</td>
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<tr>
<td>02.</td>
<td>Nursery raising &amp; transplanting</td>
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<td>b) Own</td>
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<td>03.</td>
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<td>a) Hired</td>
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<td>b) Own</td>
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<td>05.</td>
<td>Plant protection</td>
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<td>a) Hired</td>
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<tr>
<td>06.</td>
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<td>a) Hired</td>
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<td>b) Own</td>
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<tr>
<td>07.</td>
<td>Harvesting and Threshing</td>
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<td></td>
<td>a) Hired</td>
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</tbody>
</table>

Total (a) Hired
(b) Own

M = Men  W = Women  C=Cattle Pair  *P=permanent  C=Casual.  All eight hours days

### IX MATERIAL COST INCURRED:

<table>
<thead>
<tr>
<th>Inputs</th>
<th>Crop 1</th>
<th>Crop 2</th>
<th>Crop 3</th>
<th>Crop 4</th>
<th>Crop 5</th>
<th>Crop 6</th>
<th>Crop 7</th>
<th>Crop 8</th>
<th>Q* value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Seed</td>
<td></td>
<td></td>
<td>Q value</td>
<td>Q value</td>
<td>Q value</td>
<td>Q value</td>
<td>Q value</td>
<td>Q value</td>
<td>Q value</td>
</tr>
<tr>
<td>a) produced</td>
<td></td>
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<tr>
<td>b) purchased</td>
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<tr>
<td>2. Organic Manurges</td>
<td></td>
<td></td>
<td>Q value</td>
<td>Q value</td>
<td>Q value</td>
<td>Q value</td>
<td>Q value</td>
<td>Q value</td>
<td>Q value</td>
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<tr>
<td>a) produced</td>
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<td></td>
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<tr>
<td>b) purchased</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>3. Chemical Fertilizers</td>
<td></td>
<td></td>
<td>Q value</td>
<td>Q value</td>
<td>Q value</td>
<td>Q value</td>
<td>Q value</td>
<td>Q value</td>
<td>Q value</td>
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<tr>
<td>4. Plant protection chemicals</td>
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<td></td>
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<tr>
<td>5. Irrigation charges</td>
<td></td>
<td></td>
<td>Q value</td>
<td>Q value</td>
<td>Q value</td>
<td>Q value</td>
<td>Q value</td>
<td>Q value</td>
<td>Q value</td>
</tr>
<tr>
<td>a) Water Rate/Tax</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b) Oil/Fuel charges &amp; Others</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>6. Land Revenue/Rent paid</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Cost

*Q = Quantity/Number, Value in rupees
X OUTPUT

<table>
<thead>
<tr>
<th>Season</th>
<th>Output produced market rate</th>
<th>Total value in Main</th>
</tr>
</thead>
</table>

XI CREDIT PARTICULARS

a) Did you get the loan from any source: YES/NO

b) If yes, indicate source, purpose and type of loan:

<table>
<thead>
<tr>
<th>S.No</th>
<th>Source</th>
<th>Purpose</th>
<th>Type of loan</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 &amp; 2 etc.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

c) At the end of the year what is the amount outstanding:

i) Principal amount: Rs.

ii) Interest : Rs.

Total Rs.

XII GENERAL OBSERVATIONS:

EXISTING INDUSTRY SCHEDULE

1. IDENTIFICATION

a) Village 

b) Taluka 

c) Month & Year of village electrification 

d) Name of Unit 

e) Name of proprietor/ chief Executive 

f) Name of the activity 

i) Processing 

ii) Manufacturing 

Contd.
iii) Processing & Manufacturing
   iv) Servicing & Repairing
   v) Manufacturing, servicing and repairing
   vi) Any other (specify)

II. TYPE OF ENTREPRENEURSHIP
   a) Individual
   b) Partnership
   c) Technocrat
   d) Self-employment
   e) Others (specify)

III. OWNER/PROPRIETOR
   a) Age
   b) Educational qualification
   c) Previous occupations
   d) Reasons for earning industry.
      i) Hereditary
      ii) Previous experience
      iii) Regular & Higher income
      iv) Momentum of starting
      v) Absence of this type of industry
      vi) Others (specify)
   e) Who is motivated to establishing the industry.

IV. HISTORY OF INDUSTRY
   a) Month & year of starting industry.
   b) Month & year of electrical connections
   c) Month & year of application to Electricity department for power.
d) Gap in months between electrical connections and starting:
   
   i) Less than 6  
   ii) 6 - 12  
   iii) 12 - 18  
   iv) More than 18

   e) Reasons for gap:
      
      i) Lack of funds  
      ii) Lack of interest on the part of entrepreneur  
      iii) Scarcity of materials  
      iv) Lack of coordination between different agencies  
      v) Any other (specify)

   f) Motive power prior to electrification:
      
      i) Animal  
      ii) Manual  
      iii) Diesel/other oils  
      iv) Coal/coal gas/coko/charcoal  
      v) Any other (specify)
### V. COMPARETIVE PICTURE

<table>
<thead>
<tr>
<th>S.No</th>
<th>Item</th>
<th>Non-REC energisation</th>
<th>REC energisation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>No. of machines used</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>H.P. of machines used</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Contracted load</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>No. of persons employed including self &amp; family labour.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) Manageral/supervisory</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ii) Labour (skilled)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>iii) Labour (un skilled)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>i) Average No. of working hrs/day</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ii) No. of working days/year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Capital employed (Rs):</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) Total fixed capital</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a) Machinery &amp; equipment</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>b) Land &amp; Buildings</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>c) Any other (specify)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ii) Working capital</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a) Wages &amp; Salaries per month</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>b) Raw material per month</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>c) Fuel</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>d) Repairs and maintenance</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>e) Transport per month</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>f) Other expenses per month</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Inputs per Annum (Raw materials, fuel and other consumable goods)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(i)etc.
8. Output per Annum

| Item | Non-REC energisation Unit Qty./value | REC energisation Unit Qty./value |

i) Name of the product

ii) Sub-product if any:

iii) By product/waste if any:

VI SOURCE OF FUNDS

| Owned | Borrowed | Total |

a) Fixed capital source

i) Amount Rs.

b) Working capital source

i) Amount Rs.

VII AREAS OF PROBLEMS FACED BY THE UNIT

| Problem                   | Nature of problems |

a) Finance:

b) Marketing:

c) Raw materials:

d) Labour:

e) Electricity/fuel

f) Lack of repairing facilities:

g) Coordination of government agencies

h) Govt. policies

i) Any other (specify)
### VIII ADVANTAGES

(What advantages have you found over to/starting with electrified operations)

<table>
<thead>
<tr>
<th>Switching over</th>
<th>Starting New unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>1.</td>
</tr>
<tr>
<td>2.</td>
<td>2.</td>
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<tr>
<td>3.</td>
<td>3.</td>
</tr>
<tr>
<td>4.</td>
<td>4.</td>
</tr>
<tr>
<td>5.</td>
<td>5.</td>
</tr>
</tbody>
</table>

### IX GENERAL OBSERVATIONS

(Future plans)
RURAL ARTISAN SCHEDULE

I. IDENTIFICATION
   a) Village
   b) Taluka
   c) Name of the respondent
   d) Age
   e) Educational qualifications
   f) Size of family

<table>
<thead>
<tr>
<th></th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Children</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

II PARTICULARS ABOUT OCCUPATION

a) Occupation:

<table>
<thead>
<tr>
<th></th>
<th>Main</th>
<th>No.of days employed</th>
<th>Income Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>in a year</td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td></td>
<td></td>
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<tr>
<td>2.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Subsidiary

|       |      |                     |            |
| 1.    |      |                     |            |
| 2.    |      |                     |            |
| 3.    |      |                     |            |

b) Motive power used in the trade:

1. Manual
2. Animal
3. Diesel
4. Electricity (indicate H.P)

c) No. of implements used:

d) Value of implements:
e) Employment during last year

<table>
<thead>
<tr>
<th></th>
<th>No. of man days</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Family labour</td>
<td></td>
</tr>
<tr>
<td>2. Hired labour</td>
<td></td>
</tr>
<tr>
<td>3. Total:</td>
<td></td>
</tr>
</tbody>
</table>

f) Wages of hired labour  : Rs.
   (per month in Rs)

g) Cost of raw materials  : Rs.
   (per month)

h) Other expenses         : Rs.
   (per month)

i) Output (per month)     :
   Quantity
   Value : Rs.

j) Market:

   i) With in the village  :
   ii) Village surroundings :
   iii) Market centres     :
   iv) Types of main buyers :

1. Co-operative society
2. Merchants/Traders
3. Private consumers

III INFORMATION REGARDING POWER

a) Are you aware about any power driven tool that could be used in your trade? Yes/No

b) If yes, are you using any power driven tool? Yes/No

c) What is your experience?

d) If not using power:

   i. Are you willing to switch over to electricity? Yes/No

   ii. If (Yes) why you have not switched over to the electricity
Reasons:

1. Lack of capital
2. Fear of unemployment
3. Not convinced fully about the advantagesous.
4. Needs Management and training
5. Inadequate raw material
6. Power failures and shedding
7. Others

e) If yes, likely lead in H.P.

f) If using power, position before using power:

1. Raw materials (per month) Rs.

2. No. of persons employed Number Mandays
   
   Family
   Hired
   Total

3. Output (per month)

   Quantity
   Value Rs.

4. Marketing of products: No. Max. distance of the village
   
   i) Within the village
   ii) Surrounding village
   iii) Market centres

g) If not willing to switch over to power driven tools:

Reasons
1.
2.
3.
4.
5.
6.

IV ASSISTANCE:

a) Did you get any assistance?

---------------------------------------------------------------

1. Raw material
2. Working capital
3. Fixed capital

Contd.
4. Marketing
5. Technical know how
6. Subsidy:
   i)
   ii)
   iii)
7. Others

b) Debit position:
   Have you taken any loan from any institution?
   (Indicate)

<table>
<thead>
<tr>
<th>Source</th>
<th>Purpose</th>
<th>Amount</th>
<th>Rate of interest</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
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<tr>
<td>5.</td>
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</tbody>
</table>

V. Generally that problems you encounter in your trade.
   a)
   b)
   c)
   d)
   e)
   f)

VI Do you have any suggestions for improving your trade?
   a)
   b)
   c)
   d)
   e)
   f)