RURAL ELECTRIFICATION AND TRANSFORMATION OF RURAL ENVIRONMENT IN DAMOH DISTRICT: A GEOGRAPHICAL STUDY

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HOUSEHOLD QUESTIONNAIRE

1. Village ---------------------------- Location Code No. ---------------
   Gram Panchayat --------------------; -------- kms Block --------- kms ---
   Tahsil ---------------------------; ------- kms Distt. Damoh ---------kms

2. Whether with the improvement in the accessibility and the mode of transport villagers have been benefited?
   If Yes (how; details)
   (i) --------------------------------------------
   (ii) --------------------------------------------
   (iii) --------------------------------------------
   If No (why reason)
   (i) --------------------------------------------
   (ii) --------------------------------------------
   (iii) --------------------------------------------

Demographic Transformation

3. Name of Respondent (HH) ------------------------------------------
   Address ----------------------------------------------------------

4. Religion : Hindu/Muslim/Jain/Other ---------------------------------

5. Caste : General/SC/ST/OBC/Other -----------------------------------

6. Composition of the family

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name</th>
<th>Relation with Head of HH</th>
<th>Age/ Sex</th>
<th>M/B/ W</th>
<th>Education</th>
<th>Past</th>
<th>Present</th>
<th>Reason for change the occupation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
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</tr>
</tbody>
</table>

Code: Primary-1, Middle-2, HSS-3, Degree-4, Anyother-5

7. Nature of family-Nuclear/Joint ------------------------------------

1
8. Whether the nature of the family has changed? Yes/No
   If Yes (details)  (i)  --------------------------------
   (ii)  --------------------------------
   (iii)  --------------------------------
   If No (Reasons)  (i)  --------------------------------
   (ii)  --------------------------------
   (iii)  --------------------------------

9. Whether the size of your family has changed? Yes/No
   If Yes (Reasons)  (i)  --------------------------------
   (ii)  --------------------------------
   (iii)  --------------------------------
   If No (Reasons)  (i)  --------------------------------
   (ii)  --------------------------------
   (iii)  --------------------------------

Economic Profile

10. Annul income of the family Rs.---------- and belong to ------ income group

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Income group (Annual) Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>20,000</td>
</tr>
<tr>
<td>2.</td>
<td>15,001-20,000</td>
</tr>
<tr>
<td>3.</td>
<td>11,001-15,000</td>
</tr>
<tr>
<td>4.</td>
<td>Below the Poverty Line</td>
</tr>
<tr>
<td>5.</td>
<td>8,501-11,000</td>
</tr>
<tr>
<td>6.</td>
<td>6,001-8,500</td>
</tr>
<tr>
<td>7.</td>
<td>4,001-6000</td>
</tr>
<tr>
<td>8.</td>
<td>0-4,000</td>
</tr>
</tbody>
</table>

11. Whether members of the family have changed their profession? Yes/No
    If Yes (Details)  (i)  Since ________________________________
    (ii)  Reasons for opting change _____________________________
    (iii)  No of members have changed ___________________________
    (iv)  Effect of these changes ________________________________
    (v)  Any other ________________________________
12. How for the occupational changes have influenced the family?  Yes/No  
   If Yes (Details)  
   (i)  
   (ii)  
   (iii)  
   If No (Reason)  
   (i)  
   (ii)  
   (iii)  

13. Do you feel that the pace of occupational changes opted by the people have increased?  Yes/No  
   If Yes (Details)  
   (i)  
   (ii)  
   (iii)  
   If No (Reason)  
   (i)  
   (ii)  
   (iii)  

14. Whether with these changes the annual income of the family has changed?  Yes/No  
   If Yes (Details)  
   (i)  
   (ii)  
   (iii)  
   If No (Reason)  
   (i)  
   (ii)  
   (iii)  

15. Do you feel the need of taking Loan?  Yes/No  
   If Yes (Details)  
   (i) Reason  
   (ii) Source  
   (iii) Frequency  
   (iv) Amount  
   (v) Repayment  
   (vi) Any problem  
   If No (Reason)  
   (i)  
   (ii)  
   (iii)  

16. Do you feel that with the expansion and diversification of non-agricultural activities living Environment in the village has changed? Yes/No
   If Yes (Details)  
   (i)  
   (ii)  
   (iii)  

17. Do you own a house? Yes/No
   If Yes (Details)
   (i) Size of the house (a) Total area (Sq.Ft)---------
       Build up area (Sq. Ft.) ------------------------
   (ii) Type of the house
   (iii) Nature of the ownership-parental:
       Purchased; Constructed
   (iv) Cost if purchased/constructed --------------
   (v) Facilities available -------------------------
       (a) Drinking water
       (b) Latrine (Type)
       (c) Proper Lighting and Ventilation
       (d) Adequate for the family requirement

18. Whether a portion of your house has been given on rent? Yes/No
   If Yes (Details)
   (i)  
   (ii)  
   (iii)  
   If No (Reason)
   (i)  
   (ii)  
   (iii)  

19. Whether partially your house has been converted for commercial use? Yes No
   If Yes (Details)
   (i)  
   (ii)  
   (iii)  
   If No (Reason)
   (i)  
   (ii)  
   (iii)  

20. Whether looking to the increasing demand for residential accommodation you have spared the residential space on rent?
If Yes (Details)  
(i)  
(ii)  
(iii)  
If No (Reason)  
(i)  
(ii)  
(iii)  

21. Do you feel that with conversion of space for commercial use family environment has been affected? Yes/No
If Yes (Details)  
(i)  
(ii)  
(iii)  
If No (Reason)  
(i)  
(ii)  
(iii)  

22. Whether you are living in a rented house? Yes/No
If Yes (Details)  
(i) Monthly rent ------------ whether the rent has changed ------------
(ii) Size of the house --------- type of the house
(iii) Facilities available in the house ---------

23. Do you feel that with the expansion of various activities availability of accommodation has become a problem? Yes/No
If Yes (Details)  
(i)  
(ii)  
(iii)  
If No (Reason)  
(i)  
(ii)  
(iii)  

24. Do you feel that with the increasing pressure of population and diversified activities quality of life in the village has influenced? Yes/No
If Yes (Details)  
(i)  
(ii)  
(iii)  
If No (Reason)  
(i)  
(ii)  
(iii)  


25. Whether the nature of fuel being used by family has changed?  
   Yes/No
   If Yes (Details)  
   (i) Fuel has been using:
   (ii) Fuel using:
   (iii) Reason for the shift-cost:
       Availability
       Pollution
       Problem of Storage
       Any Other

26. Whether with the change of fuel being used by household the family environment has improved?  
   Yes/No
   If Yes (Details)  
   (i) ________________________________
   (ii) ________________________________
   (iii) ________________________________
   If No (Reason)  
   (i) ________________________________
   (ii) ________________________________
   (iii) ________________________________

27. Whether with the emerging changes of fuel; being used, the environment of the village has been effected?  
   Yes/No
   If Yes (Details)  
   (i) ________________________________
   (ii) ________________________________
   (iii) ________________________________
   If No (Reason)  
   (i) ________________________________
   (ii) ________________________________
   (iii) ________________________________

**Domestic use of Electricity:**

01. Do you have the domestic connection for lighting  
   Yes/No
   If Yes (Details)  
   (i) Purpose
   (ii) Year of connection
   (iii) Connecting load
   (iv) Total No. of points
   (v) No of lights usually lighted
   (vi) Total cost in cutted
   If No (Reasons)  
   (i) ________________________________
   (ii) ________________________________
   (iii) ________________________________
02. How much has been invested on the electrification of the house?  Yes/No
   If Yes (Nature)  
   (i)  
   (ii)  
   (iii)  

03. Do you feel that the time required in getting the domestic connection is reasonable?  Yes/No
   If Yes (Details)  
   (i)  
   (ii)  
   (iii)  
   If No (Reason)  
   (i)  
   (ii)  
   (iii)  

04. Whether you are satisfied with the prevailing procedure of getting electricity connection?  Yes/No
   If No (Suggestions)  
   (i)  
   (ii)  
   (iii)  

05. Whether you have faced any problem in getting the electricity connection?  Yes/No
   If Yes (Details)  
   (i)  
   (ii)  
   (iii)  
   If No (Reason)  
   (i)  
   (ii)  
   (iii)  

06. Do you feel that the above mentioned difficulties can be removed?  Yes/No
   If Yes (Details)  
   (i)  
   (ii)  
   (iii)  
   If No (Reason)  
   (i)  
   (ii)  
   (iii)  

07. Whether you justify the expenditure incurred on the electrification of the house?  Yes/No
08. Whether you have been sanctioned loan and/or financial assistance for electricity connection? Yes/No
   If Yes, (i) Name of Agency ---------------------
   (ii) Name of Scheme -------------------------
   (iii) Nature of loan -------------; Loan Amt. ------------ Subsidy ---------
   (iv) Conditions ----------------------------------
09. Whether you have been given one-point connection? Yes/No
   If Yes (Details) (i) Since (Years)
   (ii) Number of lights points usually lighted
   (ii) Impact on your functioning
10. As a domestic consumer how many electrical appliances owned by are used?

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Purpose</th>
<th>Frequency/Duration</th>
<th>S. No.</th>
<th>Purpose</th>
<th>Frequency/Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Lighting</td>
<td></td>
<td>6.</td>
<td>T.V.</td>
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<tr>
<td>2.</td>
<td>Fan</td>
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<td>7.</td>
<td>Cooler</td>
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<td>3.</td>
<td>Radio</td>
<td></td>
<td>8.</td>
<td>Mixer</td>
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<tr>
<td>5.</td>
<td>Heater</td>
<td></td>
<td>10.</td>
<td>Any other</td>
<td></td>
</tr>
</tbody>
</table>

11. How often the reading of the meter is recorded?
12. How the meter readings are recorded and bills are sent to the consumers?
13. How the electricity charges are paid? Yes/No
14. How much electricity is consumed (monthly) by your family?
   (i) Average monthly consumption (units).
   (ii) Electric charges are paid at fixed rate.
   (iii) Electric charges are paid on the basis of meter reading.
15. Whether fixed electricity charges are paid.? Yes/No
   If Yes (Details) (i) -------------------------------------------
   (ii) -----------------------------------------
   (iii) -----------------------------------------
16. Do you feel that the minimum electricity charges are reasonable? Yes/No
17. Do you feel that the minimum charges paid by your family are too reasonable? Yes/No
18. Whether you are getting uninterrupted supply of electricity?  Yes/No
   If Yes (Details)  
   (i)  
   (ii)  
   (iii) 

   If No (Reason)  
   (i)  
   (ii)  
   (iii) 

19. Do you face the problem of voltage fluctuation.  
    Yes/No
    If Yes; 

20. Do you feel that with the electrification, your quality of life has improved?  Yes/No
    If Yes (Details)  
    (i)  
    (ii)  
    (iii) 

    If No (Reason)  
    (i)  
    (ii)  
    (iii) 

21. Whether with the electrification of the house/movement of the family members is being effected:  Yes/No
    If Yes, (Reason) ; 

22. Whether with the accessibility and exposure to mass media (TV/Radio/Cinema) has influenced the attitude of the people.  Yes/No
    If Yes, 
    (i) Impact of family planning programme.
    (ii) Family size has changed.
    (iii) Awareness has increased.
    (iv) Infant mortality has been reduced.
    (v) Working efficiency has improved.
    (vi) Reading habits have improved.

23. Do you feel that with the electrification the community life in the village has improved?  Yes/No
    If Yes (Details)  
    (i)  
    (ii)  
    (iii) 

    If No (Reason)  
    (i)  
    (ii)  
    (iii) 

24. Are you satisfied with the functioning of the Electricity/Department. Yes/No
   If No (Reason)
   (i) 
   (ii) 
   (iii) 
25. Do you face any problem in getting the required electrical goods? Yes/No
   If Yes (Details)
   (i) 
   (ii) 
   (iii) 
26. Do you face any problem in getting your electrical appliances repaired. Yes/No
   If Yes (Details)
   (i) 
   (ii) 
   (iii) 
27. Do you feel that the electrification has created some negative impact on living of the family and/or community. Yes/No
   If Yes,
   (i) 
   (ii) 
   (iii) 

B. Use of Electricity in Agricultural Activities

55. Whether the area under irrigation (hectares) as per cent of total NSA has changed? Yes/No
56. Are you using electricity in agricultural activities?
   If Yes (Details): (i) Activities
   (ii) Since (year)
   (iii) No. of Pumpsets
   (iv) Connecting load
   (iv) Are you paying line rent? Yes/No
   If yes, distance (km) rent per year (Rs.)
57. Did you face any problem in getting the connection for agricultural purposes. Yes/No
   If Yes (Details)
   (i) 
   (ii) 
   (iii) 
58. Whether you faced any problem in getting the connection due to the official procedure?
59. Whether the sources and methods are being used by you for irrigational purposes with the electrification have changed? Yes/No
   (i) Sources: Dugwell/Tube well/River/Tanks/Any other source
   (ii) Methods: Rahat (with or without animal)/Diesel pumps/Any other

60. Which of the methods are more effective and why.

61. Which of the crops are cultivated with irrigation and how many times irrigation water is given.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Crops</th>
<th>Numbers of times irrigation water is given</th>
<th>Impact of production/ quality</th>
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<tr>
<td><strong>Kharif</strong></td>
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62. Are you satisfied with the expenditure incurred on getting the connection and on the installation of pumpset. Yes/No
   If Yes (Details)
   (i)   
   (ii)  
   (iii) 

63. Whether any loan/subsidy was granted to you to meet the expenditure incurred on the connection of electrification and installation of pumpset. Yes/No
   If yes, (details with scheme/agency).
64. Season-wise duration of pumpset used for irrigation the area.

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Cropping Season</th>
<th>Maximum hours</th>
<th>Minimum hours</th>
<th>Frequency</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Kharif season</td>
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<td></td>
<td>Rabi season</td>
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65. Season-wise area irrigated by the electric pump.

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Cropping Season</th>
<th>Area Irrigated (hectares)</th>
<th>Per cent of total NSA</th>
<th>Frequency</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Kharif season</td>
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<td>Rabi season</td>
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67. Details of the sources on which pumpsets are installed.

(i) Source- Dugwell/Tubewell/River/Tank
(ii) Depth
(iii) Water level (during the hot test month)
(iv) Per day operation period (Hrs)
(v) No of operational days in a month
(vi) Area irrigated (hectares) ------ ; percent of total agricultural area -----------
(vii) Frequency of watering ------- ; Period of operation (Day/Night) -----------
(viii) Duration of irrigation hours increased/decreased (why) ----
68. Whether any deepening/boring was required after the installation of the pumpset? Yes/No
   If Yes, (i) To enhance the availability of water
   (ii) To utilize the pumping capacity of the pumpset
   (iii) Any other

69. Whether you get adequate power supply during the peak period? Yes/No
   If Yes (Effects) (i) ..............................................................
   (ii) ..............................................................
   (iii) ..............................................................
   If No (Reasons), (i) ..............................................................
   (ii) ..............................................................
   (iii) ..............................................................

70. Do you feel the Horse power of the pumpset being installed is sufficient? Yes/No
   If No, (Reason), (i) ..............................................................
   (ii) ..............................................................
   (iii) ..............................................................

71. Whether the electricity charges (per month) paid by you are reasonable? Yes/No
   If Yes (Details) : (i) ..............................................................
   (ii) ..............................................................
   (iii) ..............................................................
   If No (Reasons) : (i) ..............................................................
   (ii) ..............................................................
   (iii) ..............................................................

72. Do you face any problem in paying the electricity charges? Yes/No
   If No, (i) ..............................................................
   (ii) ..............................................................
   (iii) ..............................................................

73. Whether you face any problem in getting the electrical equipments? Yes/No.
   If yes, (i) ..............................................................
   (ii) ..............................................................
   (iii) ..............................................................
   If No, (i) ..............................................................
   (ii) ..............................................................
   (iii) ..............................................................
74. Whether the voltage fluctuation has been effecting the functioning and/or maintenance cost?  Yes/No

75. Whether with the installation or the electric pumpset landuse pattern has changed.  Yes/No
   If Yes,

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Type of Total Area Ownership</th>
<th>Cultivated fallow land/ forest</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEFORE</td>
<td>Owner of land</td>
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<td>Leased out</td>
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<td>Lease land</td>
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<td>AFTER</td>
<td>Owner of land</td>
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<td></td>
<td>Leased out</td>
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<tr>
<td></td>
<td>Lease land</td>
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</tbody>
</table>

76. Whether with the installation of the electric pumpsets cropping pattern too has changed.  Yes/No
   If Yes,

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Earlier to the pumpset</th>
<th>After installation of the pumpset</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Crop</td>
<td>Production</td>
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77. Whether cropping area has been changed with the electrification of pumpsets.  Yes/No
   If Yes (details)

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Existing crops</th>
<th>New crops</th>
<th>Area effected</th>
<th>Reasons</th>
<th>Impact</th>
</tr>
</thead>
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78. Do you feel that with the use of electric pumpsets agricultural efficiency has improved? Yes/No
If Yes, (How)
   (i)  
   (ii)  
   (iii)  
If No, (Why)
   (i)  
   (ii)  
   (iii)  

79. Whether with the enhanced irrigational facilities use of chemical fertilizers has also increased. Yes/No
If Yes, (How) (i)  
   (ii)  
   (iii)  
If No, (Why) (i)  
   (ii)  
   (iii)  

80. Do you feel that with the enhanced irrigational facilities, frequency in the use of modern inputs has improved and/or increased? Yes/No

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Type of inputs</th>
<th>Crops</th>
<th>Area (Hect)</th>
<th>Frequency of use</th>
<th>Availability</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HYV seeds</td>
<td></td>
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<tr>
<td>2</td>
<td>Chemical Fertilizer</td>
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<td>3</td>
<td>Pesticides</td>
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<tr>
<td>4</td>
<td>Agricultural Equipments</td>
<td></td>
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<td>5</td>
<td>Others</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

81. Whether with the use of modern-inputs the yield and the quality of crops has improved? Yes/No
If Yes,

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Crops</th>
<th>Improvement in</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td>The Yield</td>
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<td>The Quality</td>
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<tr>
<td>6</td>
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</tbody>
</table>
82. Whether with the installation of electric pumps proportion of irrigated area has increased? Yes/No
   If Yes, (How) (i) -----------------------------------------------
   (ii) ----------------------------------------------------------
   (iii) ----------------------------------------------------------
   If No, (Why) (i) -----------------------------------------------
   (ii) ----------------------------------------------------------
   (iii) ----------------------------------------------------------

83. Whether with the help of electricity other agricultural equipments too have been adopted? Yes/No
   If Yes (details) (i) -----------------------------------------------
   (ii) ----------------------------------------------------------
   (iii) ----------------------------------------------------------
   If No (i) ------------------------------------------------------
   (ii) ----------------------------------------------------------
   (iii) ----------------------------------------------------------

84. To whether with the use of electric power pace of agricultural development has been accelerated? Yes/No
   If Yes (i) ------------------------------------------------------
   (ii) ----------------------------------------------------------
   (iii) ----------------------------------------------------------

85. Whether the use of electric power has helped in enhancing and stabilizing your agricultural income? Yes/No
   If Yes (How) (i) -----------------------------------------------
   (ii) ----------------------------------------------------------
   (iii) ----------------------------------------------------------
   If No (Details) (i) -----------------------------------------------
   (ii) ----------------------------------------------------------
   (iii) ----------------------------------------------------------

86. Do you feel that with the use of electric power in agriculture your social status has improved? Yes/No.

87. Whether the use of diesel pumps is economical? Yes/No
   If Yes (details) (i) -----------------------------------------------
   (ii) ----------------------------------------------------------
   (iii) ----------------------------------------------------------

88. Do you face any problem in getting the diesel? Yes/No
   If Yes (details) (i) -----------------------------------------------
   (ii) ----------------------------------------------------------
   (iii) ----------------------------------------------------------
89. Whether you feel the need of maintaining the diesel pump sets also? Yes/No
   If Yes (details) (i) ________________________________
   (ii) ________________________________
   (iii) ________________________________

(C) Uses of Electricity in Commercial Activities
01. Do you own a commercial establishment? Yes/No
   If Yes, (i) Type ________________________________
       (ii) Nature ________________________________
       (iii) ________________________________

02. Do you have an electric connection? Yes/No
   If Yes, (Details) (i) Since Year________________________ -
       (ii) ________________________________
       (iii) ________________________________

03. Do you have the separate connection? Yes/No
   If Yes (i) Connecting load (kwh)
       (ii) No. of points
       (iii) No. of light usually lighted
       (iv) Any other electrical equipment used,
   If No, It is a part of the domestic connection.

04. Whether you face any problem in paying electricity charges? Yes/No
   If Yes, (i) Average monthly consumption (kwh)
       (ii) Average monthly charges (Rs)

05. Whether the electrification has helped in enhancing the working hours and working efficiency? Yes/No

06. Whether with the electrification the sale of your establishment has improved? Yes/No
   If Yes, (i) ________________________________
       (ii) ________________________________
       (iii) ________________________________

07. Whether with the improved efficiency and working hours number of items sold too have increased. Yes/No
   If Yes (details) (i)
       (ii) Nature of items
08. Do you face any problem related to supply of electricity? Yes/No
If Yes (details)

09. Whether with the irregular power supply and/or voltage fluctuation the sale of your establishment is effected? Yes/No
If Yes, (i) ________________________________
   (ii) ________________________________
   (iii) ________________________________

10. Do you feel that the commercial rate of electricity is reasonable? Yes/No
If No, (i) ________________________________
   (ii) ________________________________
   (iii) ________________________________

11. Are you satisfied with functioning of the electricity department? Yes/No
If Yes, (i) ________________________________
   (ii) ________________________________
   (iii) ________________________________
If No, (i) ________________________________
   (ii) ________________________________
   (iii) ________________________________

12. Do you feel that with electrification commercial activities in the village have improved? Yes/No
If Yes (details) (i) ________________________________
   (ii) ________________________________
   (iii) ________________________________
If No,
   (i) ________________________________
   (ii) ________________________________
   (iii) ________________________________

13. Do you feel that with electrification commercial activities and consumption pattern has gradually improved? Yes/No
If Yes (details) (i) ________________________________
   (ii) ________________________________
   (iii) ________________________________
If No (Reasons) (i) ________________________________
   (ii) ________________________________
   (iii) ________________________________
14. Do you feel that with the uncertainty of power supply the consumption pattern has been effected? Yes/No
   If Yes (details) (i) ................................................
   (ii) ................................................
   (iii) ................................................

15. Whether you have suggestions for improving the power supply and the functions of the electricity department?

(D) Use of Electricity in Industrial Activities

01. Type and Nature of industry for which you have a electric connection.

02. Year in which the industry established..............................................

03. Whether the industrial unit depend only on electricity? Yes/No

109. What is the connecting load of the industrial unit (Kwh)
   (i) Numbers of motors used (HP)
   (ii) Numbers of motors operating for ----- hours in a day.
   (iii) Other operations using power.

110. Whether you have faced any problem in getting the electricity connecting for your unit. Yes/No
   If Yes (details) (i) ................................................
   (ii) ................................................
   (iii) ................................................

110. Whether the procedure for getting the electricity connection for industry needs improvement? Yes/No
   If Yes (details) (i) ................................................
   (ii) ................................................
   (iii) ................................................

111. Do you pay any line rent? Yes/No
   If yes, (i) For what distance
   (ii) What is the rent (annual)

112. What is the distance of the nearest power supply points from your unit? Place ------------------------- kms --------------------------

113. Whether you get adequate and uninterrupted power supply? Yes/No
   If Yes (details) : (i) ................................................
   (ii) ................................................
   If No (Reasons) : (i) ................................................
114. Whether with the problem of voltage fluctuation functioning is effected? Yes/No
   If Yes Causing: (i) Quality 
   (ii) Problem of high maintenance cost 
   (iii) Equipment repairing problem 
   (iv) Frequent replacement of parts

115. Whether are you maintaining a diesel set as a standby? Yes/No 
   If Yes, (details) (i) Maintenance + working cost is low/equal/high 
   (ii) Even it high

116. Whether you face any problem related to the repairing of electrical equipments. 
   If Yes (details) (i) ------------------------------------------- 
   (ii) ------------------------------------------- 
   (iii) -------------------------------------------

117. Are you happy with monthly electricity charges are being paid? Yes/No 
   If Yes; (i) Fixed or based on meters reading 
   (ii) Charges are too high or reasonable 
   (iii) Any surcharge if consumption is more 
   (iv) Any other charges 
   If No (Reasons); (i) ------------------------------------------- 
   (ii) ------------------------------------------- 
   (iii)-------------------------------------------

118. Do you feel that the electricity charges paid by you are too high? Yes/No 
   If Yes, suggestion

119. Do you face the problem of high billing? Yes/No 
   If Yes (details) ; (i) ------------------------------------------- 
   (ii) ------------------------------------------- 
   (iii) -------------------------------------------

120. Whether with the electrification of the industrial unit the composition of labourers has changed? Yes/No

121. Are you facing any problem related to labourers after the electrification? 

122. Do you feel that with the electrification of industrial units in the village/area type and production methods have been changed. Yes/No 
   If Yes (Details); (i) ------------------------------------------- 
   (ii) ------------------------------------------- 
   (iii) -------------------------------------------
123. Whether with the electrification of industrial unit changes have been noticed in the village? Yes/No
   If Yes (Details); (i) -------------------------------------------
   (ii) -----------------------------------------------
   (iii) -----------------------------------------------

125. Whether with the electrification of the Industrial units village environment has been transformed? Yes/No
   If Yes (Details); (i) -------------------------------------------
   (ii) -----------------------------------------------
   (iii) -----------------------------------------------

E General Impact

126. Whether certain activities have been improved with the electrification? Yes/No
   If Yes (Details); (i) -------------------------------------------
   (ii) -----------------------------------------------
   (iii) -----------------------------------------------

127. Whether electrification has changed your working hours and the time schedule. Yes/No

128. Whether reading habit of the villagers have improved? Yes/No
   If Yes, (Details) (i) -------------------------------------------
   (ii) -----------------------------------------------
   (iii) -----------------------------------------------

129. Whether electrification has created negative effects in the family or village? Yes/No
   If Yes (Details); (i) -------------------------------------------
   (ii) -----------------------------------------------
   (iii) -----------------------------------------------

130. Do you feel that the electrification of the rural areas has initiated the process of development in the village/area. Yes/No
   If Yes, (How)
   If No, (Why)

131. Do you feel that the street lighting is adequate in the village? Yes/No
   If No, (Suggestions)

132. Do you feel that with the street lighting the village environment has improved? Yes/No
   If Yes (details) (i) -------------------------------------------
   (ii) -----------------------------------------------
   (iii) -----------------------------------------------
133. Do you feel that the street lighting facility in the village needs further improvement? Yes/No

If Yes (details) (i) ________________________________
(ii) ________________________________
(iii) ________________________________

If No (i) ________________________________
(ii) ________________________________
(iii) ________________________________

134. Do you feel that tax levied for street lighting is reasonable? Yes/No

If No, (i) ________________________________
(ii) ________________________________
(iii) ________________________________

134. Do you feel that with the electrification water supply has improved? Yes/No

If Yes (Details), (i) ________________________________
(ii) ________________________________
(iii) ________________________________