

**Development and Implementation of a Geographical Information System (GIS) and Knowledge Management tools for Capacity Development at National Level for Remote Village Electrification Programs in India (using Assam state as a Pilot) and for GVEP Partners scale up activities.**

**Region/Country: South Asia / India**

The Main Project Partners are

- 1) Shri Shakti Alternative Energy Ltd
- 2) Janastu
- 3) Mapunity
- 4) RCSD (Resources Centre for Sustainable Development)
- 5) CREDA (Chatisgarh State Renewable Development Agency)

Please visit link at [www.mapunity.org/projects/gvep/assam.php](http://www.mapunity.org/projects/gvep/assam.php)

**Posted by** : rcsdin

**Updated** : 2007-01-04 00:27:52

**Category** : GVEP > Census Data and Village Surveys > Village Energy Survey Formats and Data Resources > Others (Village Energy Survey Formats and Data Resources)

Description: The **village Katahguri** is located in a flood plain adjoining the river brahamaputra and half of the village area is lost to river scouring effect. There is no stream with potential head difference to support a micro hydro unit. Besides the average annual wind speed is about 2.70 m/s, which makes wind energy potential an unviable option even for micro Wind Turbines. In regards to biomass based power generation the potential for wood based biomass gasifier is limited as the area suffers from shortage of woody biomass, as the village source woody biomass from external areas and the primary source for wood biomass is the homestead gardens, where woody biomass demand is 100% for cooking energy requirement

### **Village Survey Format**

**State** Assam

**Name of Nodal Agency** AEDA

**Address 1** Assam Energy Development Agency (AEDA)

**Address 2** Co-operative City Bank Building, UNB Road Silpukhuri

**Telephone No:** 03612662232

**Fax No:** 03612668475

**Email addr** aeda@india.com

**Name of Project Executing Org or Agency** Resources Centre for Sustainable Development

**Address line 1** 20, Bye lane 12, W Rajgarh Road, Guwahati 781007

**Address line 2** India

**Tel no.** 09864059980

**Fax no.** 03612525057

**E mail** mailbox@rcsdin.org

**District Name** Morigaon

**Block Name** Mayong

**Village Name** Kathaguri

**Census Code** 2001 00870300

**Latitude** 26.17

**Longitude** 92.35

Resources Centre for Sustainable Development (RCSD)

Distance From Nearest Road 3 km  
 Distance From Nearest Rail Head 26 km  
 Distance From Block Office 29 km  
 Distance From Electrical Sub-Station 11KV Line 3 km  
 Total Population 828  
 No. Of Households 118  
 Number of Hamlets/Dalit Bastis 0  
 Community Buildings 3  
 Industrial Establishments 0  
 Commercial Establishments 0  
 Main Occupation Agriculture  
 If Agriculture, main crops Paddy  
 Solar Insolation

<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Annual Average</i>
4.03	4.76	5.45	5.49	5.16	4.73	4.25	4.26	3.94	4.40	4.49	3.89	4.56

#### Wind speeds

<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>June</i>	<i>July</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Annual Average</i>
3.22	3.03	3.18	2.86	2.52	2.43	2.36	2.20	2.16	2.44	2.95	3.18	2.70

#### Biomass Woody

SHP There is no stream adjoining the village with potential head to support a micro hydro unit  
 No of sunny days per year 37

#### Electrical Demand

Household loads

Community loads

#### Load profile, hour of operation per day

<i>Description of load</i>	<i>Nos</i>	<i>Watts</i>	<i>Hours of operation per day</i>	<i>Kwh/Day</i>	<i>Critical/Non Critical load</i>
	124	8680	5	8.68	

Technology option proposed to be deployed Solar Photovoltaic (Solar Power Pack / Solar Home System Model)

Estimated project cost Rs. 3310800.00

Means of financing CFA, State share, other source

Revenue generation Rs. 89280.00 /annum

#### Mode of implementation

Equipment supply contracts

Turnkey EPC contract

Name & Address of supplier/Contractor ADITYA Solar Shop, Under Ministry of MNES,G.S. Road, Charanbasti, Guwahati 781005, Ph: 361 2460101

Operation & Maintenance arrangements Energy Service provider, village community

Monitoring arrangements MNES, AEDA, Dist. administration

Role of local community in planning Implementation, Revenue generation & management

**Posted by** : rcsdin  
**Updated** : 2007-01-03 23:58:54  
**Category** : GVEP > Census Data and Village Surveys > Village Energy Survey Formats and Data Resources > Others (Village Energy Survey Formats and Data Resources)

**Description:** The village Hariabori is located in a flood plan and suffers from annual flooding and stagnation of floodwater for more than a month as reported by the village community. The sonai river in a stagnating stage flows at a distance of 3 km from the village hence energy option under micro hydro is ruled out. Besides the average annual wind speed is about 2.70 m/s, which makes wind energy potential an unviable option even for micro Wind Turbines. In regards to biomass based power generation the potential for wood based biomass gasifier is limited as the area suffers from shortage of woody biomass, as the village source woody biomass from external areas and the primary source for wood biomass is the homestead gardens, where woody biomass demand is 100% for cooking energy requirement.

### Village Survey Format

**State** Assam

**Name of Nodal Agency** AEDA

**Address 1** Assam Energy Development Agency (AEDA)

**Address 2** Co-operative City Bank Building, UNB Road Silpukhuri

**Telephone No:** 03612662232

**Fax No:** 03612668475

**Email addr** aeda@india.com

**Name of Project Executing Org or Agency Resources Centre for Sustainable Development**

**Address line 1** 20, Bye lane 12, W Rajgarh Road, Guwahati 781007

**Address line 2** India

**Tel no.** 09864059980

**Fax no.** 03612525057

**E mail** mailbox@rcsdin.org

**District Name** Morigaon

**Block Name** Mayong

**Village Name** Hariabori

**Census Code** 2001 00877800

**Latitude** 26.14

**Longitude** 92.12

**Distance From Nearest Road** 9 km

**Distance From Nearest Rail Head** 16 km

**Distance From Block Office** 11 km

**Distance From Electrical Sub-Station 11KV Line** 5 km

**Total Population** 716

**No. Of Households** 115

**Number of Hamlets/Dalit Bastis** 0

**Community Buildings** 5

**Industrial Establishments** 0

**Commercial Establishments** 4

**Main Occupation** Agriculture

**If Agriculture, main crpos** Paddy (Boro)

**Solar Insolation**

Resources Centre for Sustainable Development (RCSD)

<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Annual Average</i>
4.03	4.76	5.45	5.49	5.16	4.73	4.25	4.26	3.94	4.40	4.49	3.89	4.56

#### Wind speeds

<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>June</i>	<i>July</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Annual Average</i>
3.22	3.03	3.18	2.86	2.52	2.43	2.36	2.20	2.16	2.44	2.95	3.18	2.70

#### Biomass Woody

SHP There is no stream adjoining the village with potential head to support a micro hydro unit

No of sunny days per year 37

#### Electrical Demand

Household loads

Community loads

#### Load profile, hour of operation per day

<i>Description of load</i>	<i>Nos</i>	<i>Watts</i>	<i>Hours of operation/day</i>	<i>Kwh/Day</i>	<i>Critical/Non Critical load</i>
	129	9030	5	9.03	

**Technology option proposed to be deployed** Solar Photovoltaic (Solar Power Pack / Solar Home System Model)

**Estimated project cost** Rs. 3444300.00

**Means of financing** CFA, State share, other source

**Revenue generation** Rs. 92880.00 /annum

#### Mode of implementation

Equipment supply contracts

Turnkey EPC contract

**Name & Address of supplier/Contractor** ADITYA Solar Shop, Under Ministry of MNES,G.S.

Road, Christanbasti, Guwahati 781005, Ph: 361 2460101

**Operation & Maintenance arrangements** Energy Service provider, village community

**Monitoring arrangements** MNES, AEDA, Dist. administration

**Role of local community in planning** Implementation, Revenue generation & management

**Posted by** : rcsdin

**Updated** : 2007-01-04 00:27:02

Resources Centre for Sustainable Development (RCSD)

**Category** : GVEP > Census Data and Village Surveys > Village Energy Survey Formats and Data Resources > Others (Village Energy Survey Formats and Data Resources)

**Description:** The village **Karitapam** is located in a flood plan area adjoining the banks of river Brahmaputra and suffers from annual flooding and stagnation of floodwater for more than a month as reported by the village community. The sonai river in a stagnating stage flows at a distance of 0.6 km from the village hence energy option under micro hydro is ruled out. Besides the average annual wind speed is about 2.70 m/s, which makes wind energy potential an unviable option even for micro Wind Turbines. In regards to biomass based power generation the potential for wood based biomass gasifier is limited as the area suffers from shortage of woody biomass, as the village source woody biomass from external areas and the primary source for wood biomass is the homestead gardens, with 100% of wood biomass being used for cooking energy requirement.

### Village Survey Format

**State** Assam

**Name of Nodal Agency** AEDA

**Address 1** Assam Energy Development Agency (AEDA)

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**Telephone No:** 03612662232

**Fax No:** 03612668475

**Email addr** aeda@india.com

**Name of Project Executing Org or Agency Resources Centre for Sustainable Development**

**Address line 1** 20, Bye lane 12, W Rajgarh Road, Guwahati 781007

**Address line 2** India

**Tel no.** 09864059980

**Fax no.** 03612525057

**E mail** mailbox@rcsdin.org

**District Name** Morigaon

**Block Name** Mayong

**Village Name** Karatipam

**Census Code** 200100872400

**Latitude** 26.16

**Longitude** 92.11

**Distance From Nearest Road** 4 km

**Distance From Nearest Rail Head** 27 km

**Distance From Block Office** 17 km

**Distance From Electrical Sub-Station 11KV Line** 6 km

**Total Population** 2315

**No. Of Households** 324

**Number of Hamlets/Dalit Bastis** 0

**Community Buildings** 3

**Industrial Establishments** 0

**Commercial Establishments** 5

**Main Occupation** Agriculture

**If Agriculture, main crpos** Paddy

### Solar Insolation

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Average
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4.03	4.76	5.45	5.49	5.16	4.73	4.25	4.26	3.94	4.40	4.49	3.89	4.56
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#### Wind speeds

<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>June</i>	<i>July</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Annual Average</i>
3.22	3.03	3.18	2.86	2.52	2.43	2.36	2.20	2.16	2.44	2.95	3.18	2.70

#### Biomass Woody

SHP There is no stream adjoining the village with potential head to support a micro hydro unit

No of sunny days per year 37

#### Electrical Demand

Household loads

Community loads

#### Load profile, hour of operation per day

<i>Description of load</i>	<i>Nos</i>	<i>Watts</i>	<i>Hours of operation per day</i>	<i>Kwh/Day</i>	<i>Critical/Non Critical load</i>
	335	45820	5	45.82	

**Techonology option proposed to be deployed** Solar Photovoltaic (Solar Power Pack / Solar Home System Model)

**Estimated project cost** Rs. 8944500.00

**Means of financing** CFA, State share, other source

**Revenue generation** Rs. 241200.00 /annum

#### Mode of implementation

Equipment supply contracts

Turnkey EPC contract

**Name & Address of supplier/Contractor** ADITYA Solar Shop, Under Ministry of MNES,G.S. Road, Christanbasti, Guwahati 781005, Ph: 361 2460101

**Operation & Maintence arrangements** Energy Service provider, village community

**Monitoring arrangements** MNES, AEDA, Dist. administration

**Role of local community in planning** Implementation, Revenue generation & management

**Posted by** : rcsdin

**Updated** : 2007-01-03 23:55:35

**Category** : GVEP > Census Data and Village Surveys > Village Energy Survey Formats and Data Resources > Others (Village Energy Survey Formats and Data Resources)

**Description:** The **village Chanuabori** is located in a flood plain of kopili and kolong river. There is no potential head difference to support a micro hydro unit. Besides the average annual wind speed is about 2.70 m/s, which makes wind energy potential an unviable option even for micro Wind Turbines. In regards to biomass based power generation the potential for wood based biomass gasifier is limited as the area suffers from shortage of woody biomass, as the village source woody biomass from external areas and the primary source for wood biomass is the homestead gardens, where woody biomass demand is 100% for cooking energy requirement.

### **Village Survey Format**

**State** Assam

**Name of Nodal Agency** AEDA

**Address 1** Assam Energy Development Agency (AEDA)

**Address 2** Co-operative City Bank Building, UNB Road Silpukhuri

**Telephone No:** 03612662232

**Fax No:** 03612668475

**Email addr** aeda@india.com

**Name of Project Executing Org or Agency Resources Centre for Sustainable Development**

**Address line 1** 20, Bye lane 12, W Rajgarh Road, Guwahati 781007

**Address line 2** India

**Tel no.** 09864059980

**Fax no.** 03612525057

**E mail** mailbox@rcsdin.org

**District Name** Morigaon

**Block Name** Morigaon

**Village Name** Chanuabori

**Census Code** 2001 00918500

**Latitude** 26.09

**Longitude** 92.18

**Distance From Nearest Road** 1 km

**Distance From Nearest Rail Head** 1 km

**Distance From Block Office** 17 km

**Distance From Electrical Sub-Station 11KV Line** 2 km

**Total Population** 940

**No. Of Households** 154

**Number of Hamlets/Dalit Bastis** 0

**Community Buildings** 2

**Industrial Establishments** 1

**Commercial Establishments** 6

**Main Occupation** Agriculture

**If Agriculture, main crops** Paddy

**Solar Insolation**

<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Annual Average</i>
4.03	4.76	5.45	5.49	5.16	4.73	4.25	4.26	3.94	4.40	4.49	3.89	4.56

#### Wind Speed

<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>June</i>	<i>July</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Annual Average</i>
3.22	3.03	3.18	2.86	2.52	2.43	2.36	2.20	2.16	2.44	2.95	3.18	2.70

#### Biomass Woody

SHP There is no stream adjoining the village with potential head to support a micro hydro unit

No of sunny days per year 37

#### Electrical Demand

Household loads

Community loads

Load profile, hour of operation per day

<i>Description of load</i>	<i>Nos</i>	<i>Watts</i>	<i>Hours of operation per day</i>	<i>Kwh/Day</i>	<i>Critical/Non Critical load</i>
	165	11550	6	11.55	

Techonology option proposed to be deployed Solar Photovoltaic (Solar Power Pack / Solar Home System Model)

Estimated project cost Rs. 4405500.00

Means of financing CFA, State share, other source

Revenue generation Rs. 118800.00/annum

#### Mode of implementation

Equipment supply contracts

Turnkey EPC contract

Name & Address of supplier/Contractor ADITYA Solar Shop, Under Ministry of MNES,G.S. Road, Christanbasti, Guwahati 781005, Ph: 361 2460101

Operation & Maintence arrangements Energy Service provider, village community

Monitoring arrangements MNES, AEDA, Dist. administration

Role of local community in planning Implementation, Revenue generation & management

Posted by : rcsdin

Updated : 2007-01-04 00:38:47

**Category** : GVEP > Census Data and Village Surveys > Village Energy Survey Formats and Data Resources > Others (Village Energy Survey Formats and Data Resources)

**Description:** The **village Kapoujari** is located in a marshy flood plan area adjoining the banks of river Brahmaputra and suffers from annual flooding and stagnation of floodwater for more than a month as reported by the village community. The sonai river in a stagnating stage flows at a distance of 2 km from the village hence energy option under micro hydro is ruled out. Besides the average annual wind speed is about 2.70 m/s, which makes wind energy potential an unviable option even for micro Wind Turbines. In regards to biomass based power generation the potential for wood based biomass gasifier is limited as the area suffers from shortage of woody biomass, as the village source woody biomass from external areas and the primary source for wood biomass is the homestead gardens, with 100% of wood biomass being used for cooking energy requirement.

### Village Survey Format

**State** Assam

**Name of Nodal Agency** AEDA

**Address 1** Assam Energy Development Agency (AEDA)

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**Telephone No:** 03612662232

**Fax No:** 03612668475

**Email addr** aeda@india.com

**Name of Project Executing Org or Agency Resources Centre for Sustainable Development**

**Address line 1** 20, Bye lane 12, W Rajgarh Road, Guwahati 781007

**Address line 2** India

**Tel no.** 09864059980

**Fax no.** 03612525057

**E mail** mailbox@rcsdin.org

**District Name** Morigaon

**Block Name** Mayong

**Village Name** Kapoujari

**Census Code** 2001 00871400

**Latitude** 26.17

**Longitude** 92.10

**Distance From Nearest Road** 6 km

**Distance From Nearest Rail Head** 29 km

**Distance From Block Office** 19 km

**Distance From Electrical Sub-Station 11KV Line** 8 km

**Total Population** 1708

**No. Of Households** 210

**Number of Hamlets/Dalit Bastis** 0

**Community Buildings** 5

**Industrial Establishments** 0

**Commercial Establishments** 9

**Main Occupation** Agriculture

**If Agriculture, main crpos** Paddy

**Solar Insolation**

<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Annual Average</i>
4.03	4.76	5.45	5.49	5.16	4.73	4.25	4.26	3.94	4.40	4.49	3.89	4.56

#### **Wind Speed**

<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>June</i>	<i>July</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Annual Average</i>
3.22	3.03	3.18	2.86	2.52	2.43	2.36	2.20	2.16	2.44	2.95	3.18	2.70

#### **Biomass Woody**

SHP There is no stream adjoining the village with potential head to support a micro hydro unit

No of sunny days per year 37

#### **Electrical Demand**

Household loads

Community loads

Load profile, hour of operation per day

<i>Description of load</i>	<i>Nos</i>	<i>Watts</i>	<i>Hours of operation per day</i>	<i>Kwh/Day</i>	<i>Critical/Non Critical load</i>
	124	16030	5	16.03	

**Techonology option proposed to be deployed** Solar Photovoltaic (Solar Power Pack / Solar Home System Model)

**Estimated project cost** Rs. 6114300.00

**Means of financing** CFA, State share, other source

**Revenue generation** Rs. 164880.00/annum

#### **Mode of implementation**

Equipment supply contracts

Turnkey EPC contract

**Name & Address of supplier/Contractor** ADITYA Solar Shop, Under Ministry of MNES,G.S. Road, Christanbasti, Guwahati 781005, Ph: 361 2460101

**Operation & Maintence arrangements** Energy Service provider, village community

**Monitoring arrangements** MNES, AEDA, Dist. administration

**Role of local community in planning** Implementation, Revenue generation & management

**Posted by** : rcsdin

**Updated** : 2007-01-04 00:30:46

**Category** : GVEP > Census Data and Village Surveys > Village Energy Survey Formats and Data Resources > Others (Village Energy Survey Formats and Data Resources)

**Description:** The **village Borichowa Pothar** is located on the foothills of Doyang reserve forest, there is no stream available in the vicinity of the village. Hence potential for micro hydro is ruled out. The average annual wind speed is about 2.19 m/s, which makes wind energy potential an unviable option even for micro Wind Turbines. In regards to biomass based power generation the potential for wood based biomass gasifier is limited as the area suffers from shortage of woody biomass, as the village source woody biomass from external areas and the primary source for wood biomass is the homestead gardens, where woody biomass demand is 100% for cooking energy requirement

### Village Survey Format

**State** Assam

**Name of Nodal Agency** AEDA

**Address 1** Assam Energy Development Agency (AEDA)

**Address 2** Co-operative City Bank Building, UNB Road Silpukhuri

**Telephone No:** 03612662232

**Fax No:** 03612668475

**Email addr** aeda@india.com

**Name of Project Executing Org or Agency Resources Centre for Sustainable Development**

**Address line 1** 20, Bye lane 12, W Rajgarh Road, Guwahati 781007

**Address line 2** India

**Tel no.** 09864059980

**Fax no.** 03612525057

**E mail mailbox@rcsdin.org**

**District Name** Golaghat

**Block Name** Gamariguri

**Village Name** Borichowa Pothar

**Census Code** 2001 00871400

**Latitude** 26.19

**Longitude** 94.04

**Distance From Nearest Road** 1.5 km

**Distance From Nearest Rail Head** 23 km

**Distance From Block Office** 7 km

**Distance From Electrical Sub-Station 11KV Line** 3 km

**Total Population** 576

**No. Of Households** 109

**Number of Hamlets/Dalit Bastis** 0

**Community Buildings** 3

**Industrial Establishments** 2

**Commercial Establishments** 4

**Main Occupation** Agriculture

**If Agriculture, main crops** Paddy

**Solar Insolation**

<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Annual Average</i>
4.04	4.55	5.19	5.09	4.92	4.74	4.28	4.33	3.91	4.25	4.48	3.90	4.47

#### Wind Speed

<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>June</i>	<i>July</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Annual Average</i>
2.59	2.74	2.65	2.29	2.08	1.99	2.00	1.84	1.82	2.00	2.16	2.23	2.19

#### Biomass Woody

SHP There is no stream adjoining the village with potential head to support a micro hydro unit

No of sunny days per year 54

#### Electrical Demand

Household loads

Community loads

Load profile, hour of operation per day

<i>Description of load</i>	<i>Nos</i>	<i>Watts</i>	<i>Hours of operation per day</i>	<i>Kwh/Day</i>	<i>Critical/Non Critical load</i>
	121	8470	5	8.47	

Techonology option proposed to be deployed Solar Photovoltaic (Solar Power Pack / Solar Home System Model)

Estimated project cost Rs. 3254900.00

Means of financing CFA, State share, other source

Revenue generation Rs. 87120.00/annum

#### Mode of implementation

Equipment supply contracts

Turnkey EPC contract

Name & Address of supplier/Contractor ADITYA Solar Shop, Under Ministry of MNES,G.S. Road, Christanbasti, Guwahati 781005, Ph: 361 2460101

Operation & Maintence arrangements Energy Service provider, village community

Monitoring arrangements MNES, AEDA, Dist. administration

Role of local community in planning Implementation, Revenue generation & management

Posted by : rcsdin

Updated : 2007-01-03 23:58:08

**Category** : GVEP > Census Data and Village Surveys > Village Energy Survey Formats and Data Resources > Others (Village Energy Survey Formats and Data Resources)

**Description:** The village Garmari is located in a flood plain of mora sonia river. There is no potential head difference to support a micro hydro unit. Besides the average annual wind speed is about 2.70 m/s, which makes wind energy potential an unviable option even for micro Wind Turbines. In regards to biomass based power generation the potential for wood based biomass gasifier is limited as the area suffers from shortage of woody biomass, as the village source woody biomass from external areas and the primary source for wood biomass is the homestead gardens, where woody biomass demand is 100% for cooking energy requirement.

### Village Survey Format

**State** Assam

**Name of Nodal Agency** AEDA

**Address 1** Assam Energy Development Agency (AEDA)

**Address 2** Co-operative City Bank Building, UNB Road Silpukhuri

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**Address line 2** India

**Tel no.** 09864059980

**Fax no.** 03612525057

**E mail** mailbox@rcsdin.org

**District Name** Morigaon

**Block Name** Mikirbheta

**Village Name** Garmari

**Census Code** 2001 00928500

**Latitude** 26.18

**Longitude** 92.26

**Distance From Nearest Road** 5 km

**Distance From Nearest Rail Head** 40 km

**Distance From Block Office** 12 km

**Distance From Electrical Sub-Station 11KV Line** 4 km

**Total Population** 1364

**No. Of Households** 231

**Number of Hamlets/Dalit Bastis** 0

**Community Buildings** 1

**Industrial Establishments** 0

**Commercial Establishments** 3

**Main Occupation** Agriculture

**If Agriculture, main crpos** Paddy

### Solar Insolation

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Average
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4.03	4.76	5.45	5.49	5.16	4.73	4.25	4.26	3.94	4.40	4.49	3.89	4.56
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#### Wind Speed

Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Annual Average
3.22	3.03	3.18	2.86	2.52	2.43	2.36	2.20	2.16	2.44	2.95	3.18	2.70

#### Biomass Woody

SHP There is no stream adjoining the village with potential head to support a micro hydro unit

No of sunny days per year 37

#### Electrical Demand

Household loads

Community loads

Load profile, hour of operation per day

Description of load	Nos	Watts	Hours of operation per day	Kwh/Day	Critical/Non Critical load
	236	16520	6	16.52	

**Techonology option proposed to be deployed** Solar Photovoltaic (Solar Power Pack / Solar Home System Model)

**Estimated project cost** Rs. 6253500.00

**Means of financing** CFA, State share, other source

**Revenue generation** Rs. 169920.00/annum

**Mode of implementation**

Equipment supply contracts

Turnkey EPC contract

**Name & Address of supplier/Contractor** ADITYA Solar Shop, Under Ministry of MNES,G.S. Road, Christanbasti, Guwahati 781005, Ph: 361 2460101

**Operation & Maintence arrangements** Energy Service provider, village community

**Monitoring arrangements** MNES, AEDA, Dist. administration

**Role of local community in planning** Implementation, Revenue generation & management

**Posted by** : rcsdin

**Updated** : 2007-01-04 00:31:45

**Category** : GVEP > Census Data and Village Surveys > Village Energy Survey Formats and Data Resources > Others (Village Energy Survey Formats and Data Resources)

**Description:** The **village Kulajan no.2** is located on the foothills of Doyang reserve forest. There is a highly meandering stream in a flat terrain flowing at a distance of 5 km from the village, hence potential for micro hydro is ruled out. The average annual wind speed is about 2.19 m/s, which makes wind energy potential an unviable option even for micro Wind Turbines. In regards to biomass based power generation the potential for wood based biomass gasifier is limited as the area suffers from shortage of woody biomass, as the village source woody biomass from external areas and the primary source for wood biomass is the homestead gardens, where woody biomass demand is 100% for cooking energy requirement.

### Village Survey Format

**State** Assam

**Name of Nodal Agency** AEDA

**Address 1** Assam Energy Development Agency (AEDA)

**Address 2** Co-operative City Bank Building, UNB Road Silpukhuri

**Telephone No:** 03612662232

**Fax No:** 03612668475

**Email addr** aeda@india.com

**Name of Project Executing Org or Agency Resources Centre for Sustainable Development**

**Address line 1** 20, Bye lane 12, W Rajgarh Road, Guwahati 781007

**Address line 2** India

**Tel no.** 09864059980

**Fax no.** 03612525057

**E mail** mailbox@rcsdin.org

**District Name** Golaghat

**Block Name** Gamariguri

**Village Name** Kulajan no.2

**Census Code** 2001 01989100

**Latitude** 26.20

**Longitude** 94.08

**Distance From Nearest Road** 6 km

**Distance From Nearest Rail Head** 20 km

**Distance From Block Office** 4 km

**Distance From Electrical Sub-Station 11KV Line** 6 km

**Total Population** 1180

**No. Of Households** 215

**Number of Hamlets/Dalit Bastis** 0

**Community Buildings** 5

**Industrial Establishments** 2

**Commercial Establishments** 20

**Main Occupation** Agriculture

**If Agriculture, main crops** Paddy

### Solar Insolation

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Average
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----------------

4.04	4.55	5.19	5.09	4.92	4.74	4.28	4.33	3.91	4.25	4.48	3.90	4.47
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#### Wind Speed

Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Annual Average
2.59	2.74	2.65	2.29	2.08	1.99	2.00	1.84	1.82	2.00	2.16	2.23	2.19

#### Biomass Woody

SHP There is no stream adjoining the village with potential head to support a micro hydro unit

No of sunny days per year 37

#### Electrical Demand

Household loads

Community loads

Load profile, hour of operation per day

Description of load	Nos	Watts	Hours of operation per day	Kwh/Day	Critical/Non Critical load
	247	17290	6	17.29	

**Techonology option proposed to be deployed** Solar Photovoltaic (Solar Power Pack / Solar Home System Model)

**Estimated project cost** Rs. 6594900.00

**Means of financing** CFA, State share, other source

**Revenue generation** Rs. 177840.00/annum.

**Mode of implementation**

Equipment supply contracts

Turnkey EPC contract

**Name & Address of supplier/Contractor** ADITYA Solar Shop, Under Ministry of MNES,G.S. Road, Christanbasti, Guwahati 781005, Ph: 361 2460101

**Operation & Maintence arrangements** Energy Service provider, village community

**Monitoring arrangements** MNES, AEDA, Dist. administration

**Role of local community in planning** Implementation, Revenue generation & management

**Posted by** : rcsdin

**Updated** : 2007-01-04 00:29:47

**Category** : GVEP > Census Data and Village Surveys > Village Energy Survey Formats and Data Resources > Others (Village Energy Survey Formats and Data Resources)

**Description:** The village Narayanpur is located on the foothills of Doyang reserve forest, there is no stream available in the vicinity of the village. Hence potential for micro hydro is ruled out. The average annual wind speed is about 2.19 m/s, which makes wind energy potential an unviable option even for micro Wind Turbines. In regards to biomass based power generation the potential for wood based biomass gasifier is limited as the area suffers from shortage of woody biomass, as the village source woody biomass from external areas and the primary source for wood biomass is the homestead gardens, where woody biomass demand is 100% for cooking energy requirement.

### Village Survey Format

**State** Assam

**Name of Nodal Agency** AEDA

**Address 1** Assam Energy Development Agency (AEDA)

**Address 2** Co-operative City Bank Building, UNB Road Silpukhuri

**Telephone No:** 03612662232

**Fax No:** 03612668475

**Email addr** aeda@india.com

**Name of Project Executing Org or Agency Resources Centre for Sustainable Development**

**Address line 1** 20, Bye lane 12, W Rajgarh Road, Guwahati 781007

**Address line 2** India

**Tel no.** 09864059980

**Fax no.** 03612525057

**E mail** mailbox@rcsdin.org

**District Name** Golaghat

**Block Name** Gamariguri

**Village Name** Narayanpur

**Census Code** 2001 01988500

**Latitude** 26.19

**Longitude** 94.04

**Distance From Nearest Road** 3 km

**Distance From Nearest Rail Head** 23 km

**Distance From Block Office** 3 km

**Distance From Electrical Sub-Station 11KV Line** 3 km

**Total Population** 932

**No. Of Households** 191

**Number of Hamlets/Dalit Bastis** 0

**Community Buildings** 3

**Industrial Establishments** 2

**Commercial Establishments** 11

**Main Occupation** Agriculture

**If Agriculture, main crops** Paddy

### Solar Insolation

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Average
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----------------

4.04	4.55	5.19	5.09	4.92	4.74	4.28	4.33	3.91	4.25	4.48	3.90	4.47
------	------	------	------	------	------	------	------	------	------	------	------	------

#### Wind Speed

Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Annual Average
2.59	2.74	2.65	2.29	2.08	1.99	2.00	1.84	1.82	2.00	2.16	2.23	2.19

#### Biomass Woody

SHP There is no stream adjoining the village with potential head to support a micro hydro unit

No of sunny days per year 54

#### Electrical Demand

Household loads

Community loads

Load profile, hour of operation per day

Description of load	Nos	Watts	Hours of operation per day	Kwh/Day	Critical/Non Critical load
	210	14700	6	14.7	

**Techonology option proposed to be deployed** Solar Photovoltaic (Solar Power Pack / Solar Home System Model)

**Estimated project cost** Rs. 5607000.00

**Means of financing** CFA, State share, other source

**Revenue generation** Rs. 151200.00 / annum

**Mode of implementation**

Equipment supply contracts

Turnkey EPC contract

**Name & Address of supplier/Contractor** ADITYA Solar Shop, Under Ministry of MNES,G.S. Road, Christanbasti, Guwahati 781005, Ph: 361 2460101

**Operation & Maintence arrangements** Energy Service provider, village community

**Monitoring arrangements** MNES, AEDA, Dist. administration

**Role of local community in planning** Implementation, Revenue generation & management

**Posted by** : rcsdin

**Updated** : 2007-01-04 00:29:47

**Category** : GVEP > Census Data and Village Surveys > Village Energy Survey Formats and Data Resources > Others (Village Energy Survey Formats and Data Resources)

**Description:** The village **Udoipur Merapani** is located on the foothills of Doyang reserve forest, there is no stream available in the vicinity of the village. Hence potential for micro hydro is ruled out. The average annual wind speed is about 2.19 m/s, which makes wind energy potential an unviable option even for micro Wind Turbines. In regards to biomass based power generation the potential for wood based biomass gasifier is limited as the area suffers from shortage of woody biomass, as the village source woody biomass from external areas and the primary source for wood biomass is the homestead gardens, where woody biomass demand is 100% for cooking energy requirement.

### Village Survey Format

**State** Assam

**Name of Nodal Agency** AEDA

**Address 1** Assam Energy Development Agency (AEDA)

**Address 2** Co-operative City Bank Building, UNB Road Silpukhuri

**Telephone No:** 03612662232

**Fax No:** 03612668475

**Email addr** aeda@india.com

**Name of Project Executing Org or Agency Resources Centre for Sustainable Development**

**Address line 1** 20, Bye lane 12, W Rajgarh Road, Guwahati 781007

**Address line 2** India

**Tel no.** 09864059980

**Fax no.** 03612525057

**E mail** mailbox@rcsdin.org

**District Name** Golaghat

**Block Name** Gamariguri

**Village Name** village Udoipur Merapani

**Census Code** 2001 01988500

**Latitude** 26.20

**Longitude** 94.06

**Distance From Nearest Road** 1.5 km

**Distance From Nearest Rail Head** 21 km

**Distance From Block Office** 6 km

**Distance From Electrical Sub-Station 11KV Line** 2.5 km

**Total Population** 1437

**No. Of Households** 267

**Number of Hamlets/Dalit Bastis** 0

**Community Buildings** 2

**Industrial Establishments** 2

**Commercial Establishments** 7

**Main Occupation** Agriculture

**If Agriculture, main crops** Paddy

### Solar Insolation

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Average
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4.04	4.55	5.19	5.09	4.92	4.74	4.28	4.33	3.91	4.25	4.48	3.90	4.47
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### Wind Speed

Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Annual Average
2.59	2.74	2.65	2.29	2.08	1.99	2.00	1.84	1.82	2.00	2.16	2.23	2.19

### Biomass Woody

SHP There is no stream adjoining the village with potential head to support a micro hydro unit

No of sunny days per year 54

### Electrical Demand

Household loads

Community loads

Load profile, hour of operation per day

Description of load	Nos	Watts	Hours of operation per day	Kwh/Day	Critical/Non Critical load
	280	19600	6	19.6	

**Techonology option proposed to be deployed** Solar Photovoltaic (Solar Power Pack / Solar Home System Model)

**Estimated project cost** Rs. 7476000.00

**Means of financing** CFA, State share, other source

**Revenue generation** Rs. 201600.00 / annum

**Mode of implementation**

Equipment supply contracts

Turnkey EPC contract

**Name & Address of supplier/Contractor** ADITYA Solar Shop, Under Ministry of MNES,G.S. Road, Christanbasti, Guwahati 781005, Ph: 361 2460101

**Operation & Maintence arrangements** Energy Service provider, village community

**Monitoring arrangements** MNES, AEDA, Dist. administration

**Role of local community in planning** Implementation, Revenue generation & management