

**Ministry of Energy, Water Resources and Irrigation
Alternative Energy Promotion Centre (AEPC)
Khumaltar, Lalitpur**

**Progress Report
of
Consulting Work
As per the signed contract document between AEPC and NCDC
Dated 7th Bhadra 2075**

Submitted by:

Regional Technical Service Provider (RTSP)

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List of abbreviations and acronyms

AEPC	Alternative Energy Promotion Center
DCC	District Coordination Committee
DEES	District Environment and Energy Section
DEEU	District Environment and Energy Unit
ESAP	Energy Sector Assistance Program
ICS	Improved Cooking Stoves
IWM	Improved Water Mill
kW	Kilo Watt
MHP	Micro Hydro Project
NCDC	Namsaling Community Development Center
RE	Renewable Energy
RET	Renewable Energy Technology
RSDWP	Rural Solar Drinking Water Project
UC	Users Committee
UG	Users Group

Chapter 1: Introduction

1.1 Overview of renewable energy sector of the province

The rural communities of Province number 1 of Nepal provide potential sources of renewable energy but yet majority of the population do not have adequate access to basic energy services.

The Population Census Report, 2011 showed that as 68.18% of the total households in this region have been electrified using various renewable sources of energy (hydropower, biogas, solar) and yet the rest 31.8 % largely depend upon other non-renewable sources such as kerosene, batteries etc. The RETs are yet to be linked with income generating and productive activities in full potential. The productive Energy Use in this region shows great potential specially in providing economic and employment opportunities for women and the marginalized communities. Similarly, with constant efforts to promote Improved Cooking Stoves (ICS), almost 102,232 ICS have been installed in various rural households of this region, but yet this accounts for only 37.18 % in terms of coverage. With only very few solar drinking water projects, still majority of rural households in this region have been spending long hours fetching drinking water from distant which has mostly affected women who are primarily in-charge of this.

Namsaling Community Development Center (NCDC), has working as a regional technical service provider of AEPC for more than a decade has greatly supported towards the promotion of RETs and alleviating the livelihood of people by providing access to clean energy.

Hence, with abundance of natural resources in place, this region provides ample opportunities to develop and utilize Renewable Energy Technologies (RETs) in dealing with these energy issues. RTSP/NCDC, working as an intermediary organization between AEPC and rural communities aims to fulfill these energy needs thereby improving livings standards of women and men by supporting all aspects of RET projects through NRREP.

1.2 Brief introduction of the RSC

Namsaling Community Development Centre (NCDC) is a non-profit making, social, apolitical non-governmental organization based in Ilam District in eastern region of Nepal. NCDC was established on 1 January 1985. It was legally registered in District Administration Office, Ilam in 1987 and has been affiliated with Social Welfare Council (SWC) since 1988.

With its immortal vision '**Creation of self-reliant and equitable society**', it works in rural areas with the mission to '**direct communities to take initiatives to elevate their livelihood through equitable and sustainable development**'. Basically, it has been playing the role of facilitator for attaining the common goal of 'sustainable development' in working areas by addressing various sectors of development such as Sustainable Agriculture, Environment and Biodiversity Conservation, Promotion of RETs, Planning and Good Governance, Health and Education, Climate Change, Gender and many other activities under these components.

1.3 Contractual arrangements with AEPC

NCDC has worked as the regional focal organization for the promotion of RETs at the local level in Eastern Nepal under AEPC for 16 years. NCDC first entered into the contract with AEPC with ESAP I in 2001. After the completion of ESAP I in 2006, NCDC re-entered the contract with AEPC with the ESAP II from 2007 till 2012.

Yet again, in 2013 after the thorough and competitive process of selection, AEPC selected NCDC as its Regional Service Center for the National Rural and Renewable Energy Program responsible to implement RETs projects and activities in seven hill districts of Eastern Nepal.

Also, NCDC has signed a contract document with AEPC for the consulting work dated 7th Bhadra 2075 for the following work of different components/subcomponents:

For Productive Energy Use Component:

- Business Opportunity Assessment -1 number
- Demand Collection of MSMEs-5 numbers
- Business Proposal Preparation-5 numbers

For Biomass Energy Sub Component:

- Demand Collection of IICS to be installed at religious places, tourist places, orphanage, community schools, hospitals, public places etc.-10 numbers
- Demand collection of thermal gasifier systems at SMEs for agro product processing-3 numbers
- Coordination and technical support with and to local and province government to utilize the conditional grant of RET-As required

For Community Electrification Sub Component:

- Collection of documents for bid call-4 numbers
- Technical support to local and province Government-As required
- Support to field monitoring (as requested by CESC)-As required

For Solar Energy Sub Component:

- Conducting Equipment Delivery Form Fill up and Processing-1 number
- Demand creation of Rural Solar Drinking Water Projects-2 numbers
- Testing and Commissioning (T & C) work of RSDWP-1 number
- Technical Support to local and province Government-As required
- Monitoring of ongoing institutional solar Projects-As required

1.4 Program components/Subcomponents/units

- 3.1 Productive Energy Use Component (PEUC)
- 3.2 Biomass Energy Subcomponent (BESC)
- 3.3 Community Electrification Sub component (CESC)
- 3.4 Solar Energy Subcomponent (SESC)

1.5 Geographical coverage and areas of work

As a consultant of AEPC, RTSP/NCDC covers all the districts of province number for the assigned tasks specified above.

RTSP/NCDC Working Area and Involvement

Sectors	Districts	Degree of Involvement
Productive Energy Use	All the districts of Province number 1	Direct
Biomass Energy	All the districts of Province number 1	Direct
Micro/Mini Hydro Projects	All the districts of Province number 1	Direct
Rural Solar Drinking Water project (RSDWP)	All the districts of Province number 1	Direct

1.6 Local partnership and collaboration established

NCDC has developed strong local partnership and collaboration with local level line agencies (DDCs and Rural Municipalities/Municipalities etc.), Project Users Committees, Financial Institution, installation companies, AEPC/NRREP and other government/non-government organizations. Regular coordination with these partners has been maintained during this contract period. Similarly, NCDC has also been collaborating with various other local level organizations etc.

Chapter 2: Plan vs. Progress

2.1 Overview of plan vs. progress

The Work Plan has been the roadmap for conducting the activities. The activities have gone as planned except solar energy sub component. Key details of the plan and progress have been presented below.

Table 1 Physical Targets and Progress

SN	Component /Sub component	Activities	Unit	Annual Target	Achievement		Remarks	
					Physical	%		
1.	Productive Energy Use Component	Business Opportunity Assessment	No.	1	1	100%		
		<i>-Nagdewa Khola MHP, Taplejung</i>						
		Demand Collection of MSMEs	No.	5	5	100%		
		<i>-Gaurav Shirting, Suiting and Tailoring Center -Sirijnaga Beauty Parlour -Sirijanga Photo Studio -Mini Mill Ratna Kumari Limbu -Crystal Computer Institute</i>						
		Business Proposal Preparation	No.	5	5	100%		
		<i>-Shrijanga Motorcycle Workshop -Seing Computer institute -Alisha Kutani Pisani Mill -Khaling Electronic Sales and Repairing Shop -Amima Computer Institute</i>						
2.	Biomass Energy Sub Component	Demand Collection of ICS	No.	10	10	100%		
		<i>-Kathok Hoisal Tsholoing Gumba -Mount Moriyaha Prathana Bhawan -Natunam Buddha Pahar Chharka -Nawa Jagaren Krishi sahakari Sanstha -Nengdhong Namgyaling Gumba -Rahashal Bal Aanathalaya -Sangdok Palri Ghuba -Saptamai Gurukul Sanskrit Pathsala -Siddhishwor Shiva Mandir -Ugen Tengiling Gumba</i>						
		Demand Collection of Gasifier	No.	3	3	100%		
		<i>-Laxmi Cheej Udhog -Nepaltar Krishi Farm -Balkrishna Krshi Farm</i>						

		Coordination and technical support with and to local and province government to utilize the conditional grant of RET	No.	As Required	1	100%		
3.	Community Electrification Sub Component	Collection of documents for bid call	No.	4	5	100%		
		<i>-Khari Khola IV MHP (88 kW) Solukhumbu</i> <i>-Khari Khola V MHP (73 kW) Solukhumbu</i> <i>-Tawa Khola MHP (100 kW), Taplejung</i> <i>-Thakpa Khola MHP (52 kW), Taplejung</i> <i>-Lodumba Khola MHP (18 kW), Taplejung</i>						
		Technical support to local and province Government	No.	As Required	-	-		Not assigned by CESC
		Support to field monitoring (as requested by CESC)	No.	As Required	-	-		Not assigned by CESC
4.	Solar Energy Sub Component	EDF of RSDWP	No.	1	1	100%	No any project for EDF and the activity is done to Demand collection	
		<i>-Khar Khola RSDWP, Panchthar</i>						
		Demand collection of RSDWP	No.	2	2	100%		
		<i>-Kabrang RSDWP, Ilam</i> <i>-Ramite Kholi RSDWP, Panchthar</i>						
		T & C of RSDWP	No.	1	1	100%	No any project for T & C and the activity is done to Demand collection	
		<i>-Deurali RSDWP, Ilam</i>						
		Technical Support to local and province Government	No.	As Required	-	-	Not assigned by SESC	

		Monitoring of ongoing institutional solar Projects	No.	As Required	-	-	Not assigned by SESC
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2.2 Major deviations on plan of reporting period with reason and how they are being adjusted and address

There is some deviation on plan of solar activities due to delay of bid call notice publication by Solar Energy subcomponent (SESC)/AEPC. As per the plan, NCDC has to conduct at least 1 EDF and 1 T & C of RSDWP during this period but AEPC/SESC has not published any bid call notice during this period resulting no any company has selected for supply and installation of RSDWP. The activity of EDF and T & C is changed to demand collection of RSDWP in coordination with SESC/AEPC.

NCDC as a consultant of AEPC has achieved 100% of its target in all the milestones set for each components.

2.3 Overview of field visits for mobilization and support

Many field visits have been made this period for community mobilization and supporting them to complete the project. The field visits have been mainly concentrated over the targeted projects of this period, for completing the proposed activities. The field staffs were mobilized continuously to project site and project related user committee so as to mobilize the community and complete work on the schedule.

2.4 Specific Support Expected from AEPC

NCDC has completed all the works as per the work plan signed. Hence NCDC expects that AEPC would release the remaining amount of fund as per the contract as soon as possible so that NCDC can disburse that fund to related staffs as soon as possible.

Chapter 3: Updates on Organization and human resource development

3.1 Implementation status of AEPC's guidelines

AEPC guidelines have been the basis for undertaking any decisions and actions related to the project for NCDC. The operational guideline is referred prior to making any decisions related to the project. Hence, all activities and procedures are conducted under approved and agreed norms, regulations as mentioned in the AEPC's guideline.

3.2 Update on human resources and capacity building to the staff

All respective professionals received orientations on specific components/ sub components/ units and the field level staffs received orientation through the Team Leader for executions of activities as per work plan of this contract period.

3.3 Updates on communication and publication

NCDC has been disseminating various RETs information to the mass using various means and modes such as FM radios, website, posters, leaflets, newsletters etc. Participation of NCDC in different events, meetings, celebrations have also contributed in reaching out to the mass. Following is the list of major communication and publication strategies implied this contract period:

- Project related write-ups published in local newspapers.
- Received 1 exposure visit team from India at NCDC Resource Center and showed demonstrations of different RETs such as ICS/IICS/MICS, PHP, IWM, SHS, Solar Pumping System, and Briquette.
- Periodic Progress Reports prepared.

3.4 Updates on outreach and collaboration

NCDC conducted rounds of village level coordination meetings with line agencies such as Rural Municipality Offices, Municipality offices, Renewable Energy for Rural Area Office and Installation Companies and User Committees of M/MHPs & RSDWPs etc.

Chapter 4: Conclusion

NCDC as a consultant of AEPC has completed all the works as per the work plan signed dated 7th Bhadra 2075 between NCDC and AEPC.