Concentrated Solar Thermal Project Steam Cooking System in JNV Khumbathang Status Report

Concentrated Solar Thermal Technology

- □ Kargil is by nature, gifted with annual average 300 days of sun shine and average solar radiation of 5-7 KWH/m2, where power potential @ 22-25 MW/sq Km is incident during the average clear days, which discerns the scope of taping solar energy in the District.
- □ Concentrated Solar Thermal (CST) Technology is very new to Kargil District, though the district has an immense potential to make use of it in various applications with DNI levels.
- □ An effort of beginning the CST technology has been made by KREDA this year only.
- □ It is hoped that by 2020 KREDA shall install more than 05 nos. of Steam Cooking System in Kargil.
- □ KREDA has installed the first Steam Cooking System at Jawahar Navodaya Vidyalaya Campus, Khumbathang. After this successful demonstration, efforts to create awareness about CST and promote the technology shall be taken up.



Physical Status

Status		
As on 07-09-2017 Name of the Project		CST Project
	the Project	JNV Khumbathang
Na me of the Nodal Agency		Kargil Renewable Energy Development
	The Houar Agency	Agency (KREDA)
		Kargil, Ladakh Jammu and Kashmir
Name of Executing Agency Date of Start of Work		M/s Unisun Technologies &
		Solar Renewable Energy
		01-03-2017
Date of Completion of work		2 nd of June-2017
Dute of		
	Name of work	Detail of Physical Progress
i)	Completion of Reflectors Sheet, Aluminium	Completed
	Channel and bonding for mirrors fixing	
ii)	Installation Reflector frame	Completed
	1. Rotating Support	
	2. Upper and Lower Stand	
iii)	Fixation of Central Tracking System (CST)	Completed
	1. Winch	
	2. Solar PV panel	
	3. Battery	
	4. Electronic Controller	
	5. DC drive Motor	
iv)	Finishing of Steam Header System	Completed
	1. Steam Drum	
	2. Header pipes IBR Grade	
	3. Receiver	
	4. Pressure reducing Station	
	5. Steam pipe line	
	6. Platform and supports	
v)	Piping and Tank Insulation (High Density	Completed
	Rock wool Insulation) Suitable for -30 celsius.	
vi)	Steam Cooking Utensils	Completed
vii)	Reflectors Sheet, Aluminium Channel and	Completed
	bonding for mirrors fixing	