



**NATIONAL INSTITUTE OF WIND ENERGY**  
 (An Autonomus Research and Development Institution under the Ministry of New and Renewable Energy)  
 Government of India  
 Velachery-Tambaram Main Road, Pallikarani, Chennai -600 100  
**Solar Radiation Resource Assessment (SRRA)**  
**Summary of Monthly Values of Solar Radiation and Meteorological Parameters**

Month: February-2015

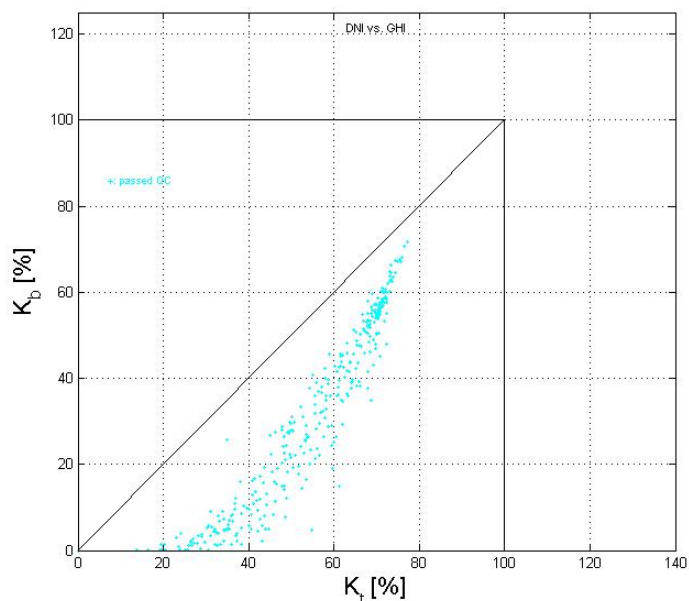
Station Name	Station ID	State	District	Date of Commissioning	Latitude[°N]	Longitude[°E]	Elevation[m]
Chennai	1791	Tamil Nadu	Chennai	2011-05-28	12.96	80.22	1

2015-02	GHI*	GHI	DNI*	DNI	DHI*	DHI	AT	RH	AP	RA*	WS	WD
	[kWh/m <sup>2</sup> /d]	[W/m <sup>2</sup> ]	[kWh/m <sup>2</sup> /d]	[W/m <sup>2</sup> ]	[kWh/m <sup>2</sup> /d]	[W/m <sup>2</sup> ]	[°C]	[%]	[hPa]	[mm]	[m/s]	[°]
average	5.70	238	5.39	225	2.04	85	25.8	85	1011	0.0	2.6	62
min	3.80	0	0.69	0	0.98	0	20.3	35	1006	0.0	0.1	2
max	6.76	993	8.27	1001	3.40	587	31.0	100	1017	0.5	59.6	345
sum [kWh/m <sup>2</sup> ],[mm]	160	160	151	151	57	57	-	-	-	1.0	-	-

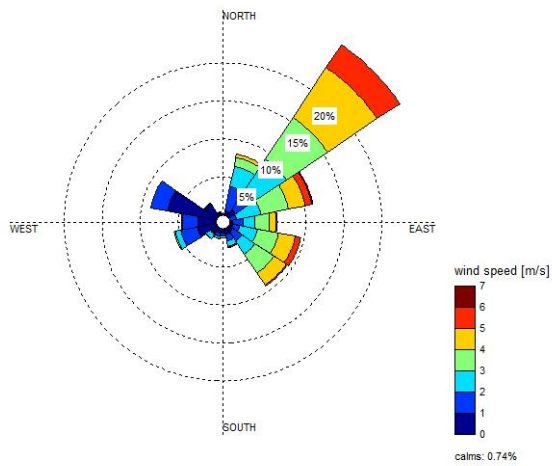
GHI	Global Horizontal Irradiance	AT	Air Temperature	WD	Wind direction
DNI	Direct Normal Irradiance	RH	Relative Humidity	AP	Atmospheric Pressure
DHI	Diffuse Horizontal Irradiance	RA*	Rain Accumulation	WS	Wind Speed

Values of all parameters mentioned above are averages/sums/minimums/maximums related to 1 minute values over the entire month including night hours. For wind: maximum wind speed refers to 1 or 10 sec values and average wind direction refers to predominant wind direction. \*Average, Minimum, Maximum and Sum of the daily sums observed in this month.

# This Data is generated as part of Solar Radiation Resources Assessment project fully funded by Ministry of New and Renewable Energy, Government of India, New Delhi and the data processing and quality assessment is done by following international protocols with technical assistance from Gesellschaft für Internationale Zusammenarbeit, New Delhi under Indo-German Co-operation.



kt: clearness index for total (global)  
 kb: clearness index for beam (direct)



**Disclaimer** The analysis and interpretation of solar and meteorological parameters of the sites is purely based on the data received from the instruments/equipment setup in each SRRA Stations. Efforts have been made to provide correct information, however there could be error arising due to handling of voluminous data and technical issues associated with instruments/equipment. Latest analytical tools available have been employed for data processing and quality checks while generating these reports. The data so provided are expected to be error free and to be realistic. Ministry of New and Renewable Energy (MNRE)/ National Institute of Wind Energy (NIWE), Chennai make no warranty expressed and implied or assumes any legal liability or responsibility for the application or use of these results from the analysis.