



नीवे NIWE  
(ISO 9001 Certified)

## राष्ट्रीयपवनऊर्जासंस्थान

(नवीनऔरनवीकरणीयऊर्जामंत्रालयकेअधीनस्वायत्तअनुसंधानएवंविकाससंस्था, भारतसरकार)

**NATIONAL INSTITUTE OF WIND ENERGY**

(An Autonomous R&D Institution under Ministry of New and Renewable Energy, Government of India)

वेलचेरीताम्बरमप्रमुखमार्ग, पल्लिकरणई, चेन्नै-600 100, तमिलनाडु, भारत

Velachery – Tambaram High Road, Pallikaranai, Chennai - 600 100, Tamil Nadu, INDIA

**NIT NO: NIWE/PUR/17/114/20**

**Date: 14.09.2020**

**E-tender in E.P.C contractors in India for Design, Engineering, Supply, Construction, Erection, Testing, Commissioning, Grid synchronization, With 5 years of comprehensive AMC, Warranty, insurance and O&M, for 1 MW (AC) Mono Crystalline Solar PV Power Plant at Madurai Kamaraj University, Madurai, Tamil Nadu.**

### **ADDENDUM-01**

The Following Addendum is issued to the E-Tender document for **vide NIT No. NIWE/PUR/17/114/20 dated 27.08.2020**

**It is requested to use the SRRA radiation data given in this addendum and Madurai Plant Location Horizon Profile data for generating PVSyst report. The details of the plant location is given below for your ready reference**

Plant location

Address: - Madurai Kamaraj University, Palkalai Nagar, Madurai – 625021, Tamil Nadu, India

Latitude - 9.944054 N

Longitude - 78.006836 E

Height- 174 m from the mean sea level.

Time Zone – 5.30<sup>+</sup>

### **Ground Measured SRRS data, Madurai**

Months	GHI/Horizontal global irradiation (W/m <sup>2</sup> )	DHI/ Horizontal diffuse irradiation (W/m <sup>2</sup> )	Ambient Temperature (°C)	Wind speed (m/s)
Jan	202.0160065	83.0493011	26	2.6
Feb	231.2489929	84.0398026	27.2	2.4
March	250.0390015	91.9518967	29.1	2.3
April	238.2120056	103.1009979	29.8	2.2
May	231.3430023	107.6660004	30.3	3.4
June	214.151001	117.3519974	28.9	4.19
July	201.4309998	119.5400009	29	4.8
Aug	208.125	117.0410004	28.5	4.3
SEP	213.4230042	108.4830017	28	3.3
Oct	189.9420013	100.4349976	27.5	2.39
Nov	165.3450012	92.4889984	26.1	2.39
Dec	169.4349976	85.9690018	25.8	2.6

**Madurai Plant Location Horizon Profile data (Hor file)**

<b>Sl.No</b>	<b>Azimuth</b>	<b>Horizon height</b>	<b>Sl.No</b>	<b>Azimuth</b>	<b>Horizon height</b>
<b>1</b>	-180	7.6	<b>26</b>	7.5	1.1
<b>2</b>	-172.5	8	<b>27</b>	15	1.1
<b>3</b>	-165	8.4	<b>28</b>	22.5	1.1
<b>4</b>	-157.5	8.4	<b>29</b>	30	1.1
<b>5</b>	-150	8.4	<b>30</b>	37.5	1.1
<b>6</b>	-142.5	8.4	<b>31</b>	45	0.4
<b>7</b>	-135	8	<b>32</b>	52.5	0.8
<b>8</b>	-127.5	7.3	<b>33</b>	60	1.1
<b>9</b>	-120	7.3	<b>34</b>	67.5	0.8
<b>10</b>	-112.5	6.9	<b>35</b>	75	0.8
<b>11</b>	-105	5.7	<b>36</b>	82.5	1.1
<b>12</b>	-97.5	4.6	<b>37</b>	90	0.8
<b>13</b>	-90	2.7	<b>38</b>	97.5	0.8

This issues with the approval of Competent authority.

**DIVISION HEAD (F&A)**