

## Technical Specifications Of Telecommunications Equipment for RES & CHP Plants connected or connecting to the HEDN with installed capacity exceeding four hundred kilowatts (400 KW)

12/6/2024

	Notes
Telecommunications equipment required	
<ul> <li>Omni antennas (if there is no visual contact with the base station), with the following technical characteristics:</li> <li>Suitable for outdoor installation</li> <li>Omni-directional Gain of at least 3.5dB and VSWR value of less than 2 at 4G/5G network operating frequencies.</li> <li>They must feature an RF cable of at least 2.5m in length and a suitable wall mount and SMA or N-Type RF connectors for interfacing with antennas and equipment.</li> <li>The antennas must be accompanied by lightning protection and the necessary interconnection cables with the appropriate connectors, for compatibility with RF cables.</li> </ul>	Procurement is undertaken by the producer
<ul> <li>Directional antennas (if there is visual contact with the base station) with the following technical characteristics:</li> <li>Suitable for outdoor installation</li> <li>Directional Gain of at least 9dB and VSWR value of less than 1.5 at 4G/5G network operating frequencies.</li> <li>They must feature an RF cable of at least 5m and a suitable wall mount base and SMA or N-Type RF connectors to interface with the offered antennas and equipment.</li> <li>The antennas must be accompanied by lightning protection and the necessary interconnection cables with the appropriate connectors, for compatibility with RF cables.</li> </ul>	Procurement is undertaken by the producer
SIM card (4G/5G) to connect the equipment to the mobile telephony network, with the following features:  • Minimum data 3GB per month • Data retention time at 10 years • At least 5 years lifetime, • 500.000 update cycles (recording-reading) • Safe operation at temperatures of -25°C with +85°C • Seamless operation at natural environment humidity levels • Contact protection from oxidation	Procurement is undertaken by the producer
Router equipment and arrangement for the interconnection with other equipment.	To be provided by HEDNO*

<sup>\*</sup> Instructions on the procedure for receiving the router will be provided at a later stage.