

ANNEX 8 SUB-AWARD CRITERIA

For these Sub-Award criteria corresponding to the Desirables from the Program of Requirements the Tenderer should respond and/or elaborate on the questions in the table below. For each answer and/or elaboration scores can be obtained.

In the table below the maximum weighted points to be obtained is shown. How the maximum number of weighted points is achieved is explained in section 3.2.2 of the Descriptive document. The numbering refers to the Desirables from the Program of Requirements.

Sub-Award criteria quality		maximum weighted points	Form*
Quality – General Technical requirements			
7	Raw data	1	Select your answer in cell G12
8	Reprocess archived raw data offline	1	Select your answer in cell G13
Quality - Precipitation Accumulation, Intensity and Duration requirements			
11	Accumulation measurements	5	Enter an accumulation time resolution (ATR) value in seconds in cell G17.
15	Duration output with a time resolution of less than 60 seconds	5	Enter a duration time resolution (DRT) in seconds in cell G21.
19	intensity values with a resolution of 0.001 mm/h.	5	Select your answer in cell G19
21	Real-time output of solid and liquid precipitation	3	Enter a time delay (TD) for output in minutes in cell G27
23	measurement uncertainty for liquid precipitation intensity under constant flow	8	Select your answer in cell G29 and submit a free format substantiation of max ten (10) A4 pages when applicable
Quality – Communication requirements			
29	Communications transmission bauds in excess of 9600 bits per second are Desirable.	1	Select your answer in cell G36
Quality – Sensor Output requirements			
36	output average time less than 1 minute	3	Enter the output average time (OAT) in seconds in cell G44
38	create a user-defined output telegram	1	Select your answer in cell G46
Quality – Status requirements			
43	Raw diagnostic information being available for predictive maintenance purposes	1	Select your answer in cell G52
Quality – Installation requirements			
67	Suitable standpoles	1	Select your answer in cell G81

Quality – Sensor Connections requirements			
71	Connection gauge	1	Select your answer in cell G86
Quality – Operating Environment requirements			
80	Optimization for errors	8	Select your answer in cell G96 and submit a free format substantiation of max ten (10) A4 pages when applicable
84	target temperature and heating time of the heater(s) of the offered solution should be optimized and configurable	5	Select your answer in cell G100 and submit a free format substantiation of max one (1) A4 page when applicable
Quality – Software requirements			
89	Remotely updating Firmware	1	Select your answer in cell G106
Quality – Maintenance requirements			
98	frequency of preventative measures in the field	5	Enter the Preventative Measures Frequency (PMF) in months in cell G118.
Quality - Maintainability / Calibration			
101	Calibration device	1	Select your answer in cell G122
103	Calibration interval	6	Select your answer in cell G124
Quality - Reliability			
109	The Mean Time To Repair (MTTR)	6	Enter the Mean Time To Repair (MTTR) in hours in cell G130
Sustainability			
118	Sustainability	2	Select your answer in cell G144 and submit a free format substantiation of max two (2) A4 pages
Total achievable points		70	

Important!

* For answering the Desirables with a substantiation Tenderer may use an own template or file to structure the substantiations. In all cases, it should be clearly indicated which elaboration belongs to which Desirable. The amount of space available for substantiations is given in terms of A4 pages. The text must be in font size **11pt or larger** and clearly readable. Any text within graphics must be of similar (or larger) size and readable. It is allowed to include figures/graphs/test reports or pictures, but please make sure **not to exceed** the number of pages that are prescribed. All information that exceeds the number of pages will be ignored and will not be assessed.

Contracting Authority is looking for a Contractor that understands the contract and can demonstrate that it provides the most appropriate approach to the fulfilment of the contract, which should be evident from the answers submitted by the Tenderer.

Your answers will be verified during the Verification Phase, become part of the Agreement upon award of the Contract and will therefore give rise to obligations.

Explanation on quantitative Sub-Award criteria

Answering quantitative Sub-Award criteria can be done in the Program of Requirements.

Together with your Tender, you must submit a fully answered copy of the Program of Requirements in which you confirm to satisfy the mandatory Requirements but also answer the questions stated as a Desirable.

The response options are predefined by Contracting Authority and/or a value is asked to be specified. The table above shows in which cells an answer can be given.

Explanation on qualitative Sub-Award criteria

For the qualitative Sub-Award criteria, an elaboration to be assessed is requested. In some cases, an answer will also have to be given in the Program of Requirements. The table above shows which Sub-Award criteria this applies to.

Below each qualitative Sub-Award criteria is listed along with an explanation of what is expected in your response, and a description of how your response will be assessed.

23. measurement uncertainty for liquid precipitation intensity under constant flow

Tenderer should substantiate the precipitation gauge's measurement uncertainty for liquid precipitation intensity under constant flow. This should be done by supplying test results from laboratory tests.

The substantiation should include a specification of the measurement uncertainty according to the "Guide to the Expression of Uncertainty in Measurement" (GUM, JCGM_100_2008). This substantiation should include the effects of e.g. long and short term stability, linearity, hysteresis, reproducibility and calibration on the measurement uncertainty. It should also substantiate that the precipitation intensity reported by any two sensors of the offered precipitation gauge placed next to each other agree within the WMO measurement uncertainty over the entire measurement range.

Please select your answer in cell G29 and if applicable provide a substantiation of maximum ten (10) A4 pages (including provided test reports). The substantiation will be assessed and a score is given between 0 to 100 points maximum based on the levels described in the table shown in paragraph 3.2.2 of the Descriptive Document.

The assessment is based on expert judgement with special attention given to the following assessment criteria, for 2 identical gauges:

- the lower the measurement uncertainty, the better;
- detail with which the measurement uncertainty is stated in accordance with the GUM;
- performance of gauge in controlled lab conditions based on required measurement uncertainty limits stated in Requirement 22.

The assessment is based on the measurement uncertainty values and expert judgement with special attention given to the clarity, the level of detail and completeness of the response.

The more certainty the results give the Contracting Authority on the desired accuracy, the higher the score.

80. Optimization for errors

Please select your answer in cell G96 and if applicable provide substantiations that make clear how the gauge is optimized for errors and how these optimizations perform. Examples of errors include, but are not restricted to, the following:

- wind-induced undercatch;
- vibrations;
- splashing out (high intensity);

- evaporation.

The type of substantiation should make the above clear. Examples of the substantiations are:

- technical data on the gauge design or recommended set-up that minimizes wind induced undercatch;
- comparison study of data from 2 identical sensors in the same environment, where 1 is subjected to (simulated) wind vibrations and the other one is not, in order to assess the performance of the algorithm used;
- performance test with specific amount of water by exposing the gauge with a high intensity flow rate to compare the amount measured by the gauge;
- induced evaporation due to heating element, by exposing the gauge to a specific amount of frozen water and compare it with the measured amount by the gauge.

The substantiation will consist of a maximum of ten (10) A4 pages (including provided test reports). All the substantiations together will be assessed and a single score is given between 0 to 100 maximum based on the levels described in the table shown in paragraph 3.2.2 of the Descriptive Document.

The assessment is based on expert judgement with special attention given to the clarity, the level of detail, the extent to which Tenderer can guarantee it's solution and completeness of the response. The more Contracting Authority is convinced that the offered gauge can withstand errors due to the environment the higher the score.

84. target temperature and heating time of the heater(s) of the offered solution should be optimized and configurable

The target temperature and heating time of the heater(s) of the offered solution should be optimized and configurable to balance between melting time, evaporation and power consumption. Please select your answer in cell G100 and if applicable provide a substantiation on how the heating control is optimized for conditions in the Netherlands.

Please provide either a manual or a substantiation of maximum 1 A4 page that explains how the heating system and control work and if applicable how it can be optimized and configurable. The substantiation will be assessed and a score is given between 0 to 100 maximum based on the levels described in the table shown in paragraph 3.2.2 of the Descriptive document.

The assessment is based on expert judgement with special attention given to the clarity, the level of detail and completeness of the response.

The more confidence the Contracting Authority has in your approach and the extent to which it shows that Tenderer has sufficient knowledge of the requested service to achieve the desired result for the Client the higher your score.

118. Sustainability

Eco-friendly procurement is about preventing or minimizing a negative impact on the environment. The reduction of environmental impact can be achieved in various ways, including the choice of materials, the production process through to placement, commissioning and maintenance. Eventually, a product will be disposed of, although placement and disposal is outside the scope of this agreement, the product offered may have a negative impact on the environment when taken out of service. Chosen materials or production techniques may have a positive or negative impact on the (degree of) recyclability of the offered product. Buyer aims for a product with limited environmental impact. Describe in what way and to what extent you include sustainability in your offer in the production, materials used, logistics, energy consumption,

maintenance and recyclability of the product so that you meet the requested and substantiate its effectiveness.

Consider the following preconditions:

- All mandatory Requirements of the Program of Requirements must be met;
- Your Solution must not involve separate costs from those specified in the pricing sheet;
- Your proposal must be feasible and not entail an extension of the Contract.

Evaluation criteria

The assessment team will use your answer to assess whether and to what extent reservations have been made, your solution is effective, applicable and described in concrete terms, i.e.:

- In what way and to what extent the environmental impact is limited from the production (including materials used), logistics, energy consumption, maintenance and recyclability of the product.

The substantiation will consist of a maximum of two (2) A4 pages. The less environmentally harmful The Solutions described are and the more this is quantified and made demonstrable, the higher the rating; the substantiation is an important element here. The score is based on the levels described in the table shown in paragraph 3.2.2 of the Descriptive Document.