

Indicating and recording instruments : 411119				
Live Remote Temperature & Humidity Monitoring and Alert System: 41111970				
S. No	Parameter	Field type	Field Category	LOV
<b>General</b>				
1	Application of Type of IOT Device	Enumerable	Filter	Live Remote Temperature & Humidity Monitoring and Alert System
2	Items covered in the System	Enumerable	Golden (MultiSelect)	1. IOT Device for measuring & monitoring of temperature 2.IOT Device for measuring & monitoring of temperature & Humidity 3. Software for IOT device for monitoring
3	Activation & Demonstration of the product	Boolean	Golden	Yes, No
4	Demonstration Type	Enumerable	Golden (MultiSelect)	onsite, remote, NA
5	Number of Years upto which Support is available from OEM/Seller	Enumerable	Golden	1,2,3,4, 5, NA
<b>IoT Device</b>				
6	Features of IOT Device	Enumerable	Golden (MultiSelect)	1. To measure, observe and monitor Temperature & Humidity in a real time remotely and send alerts when there is deviation from defined temperature range. 2. Captures the location detail of monitoring unit. 3. User configurable sampling and data reporting frequency 4. NA
7	Key components in the IoT device	Enumerable	Golden (MultiSelect)	1. Temperature Sensor 2. Humidity Sensor 3. Microcontroller 4. Communication module 5. Battery
8	Type of Monitoring	Enumerable	Golden (MultiSelect)	Temperature, Humidity, NA

9	No. Of data readings stored in memory (in Thousand)	Enumerable	Golden (MultiSelect)	1, 1.5, 2, NA
10	Sensor type	Enumerable	Golden (MultiSelect)	Internal, External , NA
11	Firmware	Enumerable	Filter	Operating system based, Embedded
12	Visual display available in the offered product	Enumerable	Golden	LED, OLED, LCD, PLASMA, TFT, GRAPHIC, NA
13	Make and Model of the IOT Device	Text	Mandatory	
14	OEM of the IOT Device	Text	Mandatory	
15	Warranty on the IOT device (years)	Enumerable	Golden	1, 2, 3, 4, 5, NA
<b>Temperature Sensor</b>				
16	Temperature Sensor Type	Enumerable	Filter	Thermocouples, Resistance temperature detectors (RTDs) , ThermistorsLocal temperature sensor Ics, Remote thermal diode temperature sensor Ics, NA
17	Sensitivity(in °C)	Enumerable	Golden	±0.5, ± 1, ±1.5, ±2, NA
18	Temperature Resolution	Enumerable	Golden	0.5, 1, NA
19	Minimum Operating Temperature(in °C). (Hint: Select "0" if not applicable; )	Numeric	Golden(Lower is better)	-30 to 20
20	Maximum Operating Temperature(in °C) (Hint: Select "0" if not applicable; )	Numeric	Golden(Higher is better)	-20 to 60
<b>Humidity Sensor</b>				
21	RH Sensor Type	Enumerable	Filter	1. Capacitive 2. Resistive 3. Thermal Conductivity 4. NA
22	Humidity Range(in % RH) (Hint: Select "0" if not applicable)	Numeric	Golden(Higher is better)	0-100
23	Accuracy (in % RH)	Enumerable	Golden	±2, ±3, NA

24	Sensitivity(in % RH)	Enumerable	Golden	±0.1, ±0.2, NA
<b>Communication Module</b>				
25	Communication protocols Supported	Enumerable	Golden (MultiSelect)	2G (quad band), 3G, 4G (LTE), Wi-fi, Bluetooth, NA
<b>Microcontroller</b>				
26	Bit core	Enumerable	Golden	4,8,16-single,16-dual, 32-single, 32-dual, 32- tri, 32-quad, NA
27	Core processor	Enumerable	Golden	8051/52, ARM, FT32, F2MC, MAXQ, MSP, XCORE, NA
28	Memory type	Enumerable	Golden	code RAM, EEPROM, FLASH, OTP, FRAM, ROMLESS, SRAM, RAM, PRAM, EPROM, MTP, NA
29	Memory Size in KB. (Hint: Select "0" if not applicable; )	Numeric	Golden (higher is better)	0 to 2048
<b>Battery</b>				
30	Type of Battery	Enumerable	Golden	Rechargeable Battery, Non-Rechargeable Battery, NA
31	Number of Batteries	Enumerable	Golden	1,2,3,4,5 ; NA
32	Chemistry of Battery	Enumerable	Golden	Li-ion, Ni-MH, SMF, Alkaline, Lithium Polymer, NA
33	Battery Size	Enumerable	Filter	AA, AAA, AAAA, Type-C, Type-D, 9v Rectangular Battery , NA
34	Capacity of Battery (in mAh) (Hint: Select "0" if not applicable; )	Numeric	Golden (higher is better)	0 to 6000
35	Operating Voltage(in volts) (Hint: Select "0" if not applicable)	Numeric	Filter	0-12

36	Minimum Battery Back Up Time ( in days) as per standard sampling and data reporting intervals. (Hint: Select "0" if not applicable)	Numeric	Golden(higher is better)	0 to 30
37	Suitable Battery Charger Working on 230 V AC $\pm$ 10 % ; 50 Hz $\pm$ 10 %	Enumerable	Filter	Yes, NA
<b>SOFTWARE</b>				
38	Deployment Option	Enumerable	Golden (MultiSelect)	In-premise, Cloud, NA
39	Features of Software for monitoring/ Reports	Enumerable	Golden (MultiSelect)	<ol style="list-style-type: none"> <li>1. Graphical User interface to configure, read, upgrade the device.</li> <li>2. Software provides access to data , reports of temperature, humidity and location.</li> <li>3. Admin rights to create and manage devices and users, assign devices to users</li> <li>4. Set temperature limits for individual devices for monitoring &amp; alert</li> <li>5. User access to monitor each device and view/ download reports.</li> <li>6. Create and modify storage locations like warehouse, and subsequent locations.</li> <li>7. Create and modify Trips if used for transportation</li> <li>8. API to integrate with other or existing application</li> </ol>
40	Name of the software	Text	Mandatory	0, NA
41	OEM Model / Part No.	Text	Mandatory	
42	Type of Licence	Enumerable	Golden	Perpetual, Subscription, NA

43	Valid licence copy to be provided	Enumerable	Golden	Yes, NA
44	Software supplied through	Enumerable	Filter(MultiSelect)	Media, URL link, Media & URL link, Pre-loaded, Hosted on cloud, NA
45	Hyper link to the datasheet	Text	Mandatory	
46	Operating system Supported	Enumerable	Filter(MultiSelect)	Window, Linux, IOS, NA
<b>Generic Features</b>				
47	Operating Modes	Enumerable	Filter(MultiSelect)	Standard Run Mode, Delayed Start Run Mode, Flight Mode, NA
48	Standard Sampling Interval Range (Minutes)	Enumerable	Filter	1-30, 1-60, 1-90
49	Standard Reporting Interval Range (Minutes)	Enumerable	Filter	1-30, 1-60, 1-90
50	Format in which GUI Report Available	Enumerable	Filter(MultiSelect)	Excel, PDF, NA
51	Programmable distinct Alarms for	Enumerable	Filter(MultiSelect)	Low Battery, Deviations in Temperature & Humidity, NA
52	Alarm Types	Enumerable	Golden (MultiSelect)	SMS, Mobile Apps , Email, Audio, NA
53	Display Reading in	Enumerable	Filter(MultiSelect)	Temperature , Humidity, date, time, NA
54	Device Interface	Enumerable	Filter(MultiSelect)	LED Status(Power -Up, low battery, charging, network ), UART / USB Port, switch for power On, NA
55	Device Configuration n	Enumerable	Filter(MultiSelect)	Using User Interface programs by physically connecting device to the PC , From remote using SMS Commands OR Web program ( web based programs will use internet protocols such as HTTP, etc instead of SMS), NA

56	List of items & number included in the scope of supply	Text	Mandatory	
57	Supplied with Comprehensive User manual	Enumerable	Filter	Yes, NA