WMO OMM

World Meteorological Organization
Organisation météorologique mondiale
Organización Meteorológica Mundial
Всемирная метеорологическая организация
المنظمة العالمية للأرصاد الجوية
世界气象组织

Secrétariat
7 bis, avenue de la Paix – Case postale 2300
CH 1211 Genève 2 – Suisse
Tél.: +41 (0) 22 730 81 11
Fax: +41 (0) 22 730 81 81
wmo@wmo.int – public.wmo.int

WEATHER CLIMATE WATER
TEMPS CLIMAT EAU

Supply and delivery of Hardware and Software for Automated FFGS Bulletin in SAOFFG System in Indonesia

Technical Specifications

Project: "Development of Automated FFGS Bulletin in SAOFFG System BMKG"

1. BACKGROUND INFORMATION

In 2020, BMKG has developed a derivative product of the SAOFFG system which is presented in the form of a bulletin. This Bulletin product contains maps of various SAOFFG parameters that can be used to quickly determine the potential for flash flood in an area. This product has been implemented operationally at BMKG with the distribution based on provinces in Indonesia. Based on the discussions that have been carried out, WMO and BMKG plan to develop Bulletin products within the scope of member countries in SAOFFG region, including Malaysia, Brunei Darussalam, the Philippines, Papua New Guinea and Timor-Leste. With this project, some hardware and software are needed to support the development of the Bulletin product.

The FFGS Bulletin product will be developed in each member country in the SAOFFG region.

2. SCOPE OF SUPPLY

1. Server and Storage Installation for database and archiving needs of SAOFFG Bulletin products.
2. Workstation installation for SAOFFG Bulletin product development process in all member countries.
3. Windows Server installation for server hardware support needs.
4. Installation of Nitro PDF and Microsoft Office in Workstations for SAOFFG Bulletin development needs.
5. Teamviewer installation for remote support needs.

In addition to the equipment, the scope of supply includes:

i. 24-month Warranty
ii. After–sales services
iii. Shipment, insurance, delivery and installation
iv. Acceptance testing on-site with the designated BMKG staff

3. SPECIFICATIONS OF THE EQUIPMENT AND PROPOSAL SUBMISSION FORM

Item	Name and characteristics	Qty	Unit Price (USD)	Total item price (USD)	Compliance (Yes/No) *Remarks
1	**Server** • X12DPI-N-T6P,213BTS-R1K23LPBP3-1,2U SAS3 MainstreamServer • Intel Xeon Gold 6346 Processor 16-Core 3.1GHz 36MB Cache (205W) • 32GB DDR4 1.2V 3200 ECC REG • Samsung PM983,960GB,NVMe PCIe3.0x4,V4 TLC VNAND,2.5",7mm SED Opal • Intel D3 S4620 1.92TB SATA6Gb/s 3D TLC 2.5" 7.0mm <3DWPD • 2x 10GbE SFP+ Intel X710-BM2, Gen3 x8 LP -- AOC-STGF-I2S-O • SPI Capable Vertical TPM 1.2 -- AOM-TPM-9671V-S-O • DataCenter Management Package (per node license) • Slimline x8 to PCIe 2x SFF-8639 & Power,RoHS • 2.5x2 NVMe Drive Kit for 216B/826B/417B/846X/847B,RoHS	1			
2	**Storage** • 1x FlashSystem 5015 LFF Control Enclosure • 6x 4TB 7.2K 3.5Inch NL HDD • 48.3 x 55.6 x 8.7 cm (WxDxH) • 1x 16Gb FC Card Adapter Pair	1			
3	**Windows Server 2022 Standard**	1			

	• Windows Server 2022 Standard CAL 16 Core License Pack + 5 CALS • Designed for businesses with more than 25 users and 50 devices • Run business-critical workloads in your datacenter, on cloud, and at the edge • Advanced multi-layer security against threats • Improved tools for hybrid-server management • 16 core license pack included, plus additional Client Access Licenses (CALs)				
4	**Nitro PDF Pro** • Create PDFs and Combine Files • Convert Files to and from PDF • Edit PDF files • Review, Markup, and Annotate PDFs • Build and Fill PDF forms • Keep PDFs secure • Digitally Sign and Certify Documents • Cloud storage integrations • Customizable Ribbon Tab • Microsoft Office-like interface • Batch OCR & edit OCR • Convert to Microsoft Excel and PowerPoint • Convert to PDF/A • Permissions: add and edit • Create and edit: Tables of Contents, bookmarks • PDF Portfolios	1			
5	**Microsoft Office 2021 Pro** • One-time purchase scheme for 1 PC • Classic 2021 versions of Word, Excel, PowerPoint, and Outlook, as well as Publisher and Access • Includes Microsoft support for the first 60 days at no additional cost • Compatible with Windows 11 and Windows 10 • Works with Microsoft Teams	1			

6	**LENOVO ThinkStation P350 Xeon 32GB 1TB 256GB T1000 Win10Pro Mon 23.8"** • Intel Xeon W-1350P • 32GB DDR4 2933MHz ECC UDIMM • 1TB Hard Drive 7200RPM 3.5" • 256GB Solid State Drive, 2.5 TLC OPAL • NVIDIA Quadro T1000-4GB • Windows 10 Pro 64 • 3 in 1 Card Reader • Slim DVD RW 9.0mm • Integrated Audio • Intel Wi-Fi 6 AX201 2x2 AX • Bluetooth Version 5.0 vPro • USB Calliope Mouse & Keyboard Black English • Tower 92% Power 500W • 376 mm x 170 mm x 315.35 mm , 9.4 kg with maximum configuration (without monitor) • 3 Years Premier Support	1			
7	**TeamViewer Multi User (Premium License)** • Concurrent Connections 1 channel included (add on up to 5) • Licensed users 15 • Managed Devices up to 300 • Number of meeting participants 10 • Access & Control Computers Remotely • Secure Unattended Access • Remote printing for Mac & Windows on any printer • File Sharing • Cross platform access • Tech support via phone • Customized Device Information • User Access Reporting • TeamViewer web client	1			
8	Cost of DAP Transportation to BMKG				

9	Cost of insurance				
	Others…				
Total Price (Currency to be specified)					

) compliance must be confirmed in detail by the contractor's offer and technical documentation and will be verified by WMO during technical evaluation;

**) if not compliant with WMO's required parameters, the bidder must indicate his parameters in this column*

-No EOL and EOS device shall be offered

-System units (within a wall type rack) shall be installed to BMKG and cable connections shall be done for connecting mains electricity and LAN (Local Area Network)

The system is procured on Turn-key basis. The contractor shall be responsible for the delivery to the addresses detailed in paragraph 4 and connecting the system to the LAN of BMKG

Offers without complete and detailed technical leaflets will not be considered

Only complete offers will be considered

4. DELIVERY PLACE AND RELATED INFORMATION

One (1) set of each listed goods are to be delivered to BMKG:

DAP INCOTERMS

Agency Name	Official Address
1. Badan Meteorologi, Klimatologi, dan Geofisika (BMKG) Headquarters	Jl. Angkasa I No.2 Kemayoran, Jakarta Pusat, DKI Jakarta 10610 PO Box 3540 Jkt.

5. SPECIFIC CONSTRAINTS AND LIMITATIONS

Systems will be delivered to Badan Meteorologi, Klimatologi, dan Geofisika (BMKG) Headquarters where the local conditions are not meeting standard requirements

- Unstable internet connection

6. STANDARDS

- Unstable mains electricity
- ISO/IEC 27001: Information System Management (general)
- IEC 11801: Requirements for cabling
- IEC 60297: Mechanical requirements for IS, e.g. server rack
- IEC 60950: Power system requirements
- IEC 61000: EMC (electromagnetic compatibility), general requirements
- EU 617: Eco-design requirements for offered IS
- IEC 62040: Requirements for power systems
- BS EN 62230: Requirements for cabling
- IEC297: For server racks
- ISO9001: Organization Quality Standards
- ANSI/ITA-568: IT lines and product requirements
- EIA-310: Server and server rack
- IP55: Protection class (server rack)
- CEE 7/7: Electricity requirements

7. TESTING

1. Temporary System acceptance test: in-situ at the work location;

- Physical tests: checking if the provided hardware is matching with the offered hardware, if the overall level of work (connections, cabling etc) are compliant. Cabling tests, power outage tests

- Software tests: Software installation (Windows server, Nitro PDF, Microsoft Office, Team Viewer), hardware performance tests, firewall and security tests, switching and routing tests, LAN and file transfer tests, Log tests

2. Reliability period (4 weeks)

3. Final Acceptance Test: Same as temporary acceptance tests to ensure the defects are corrected.

Factory tests: not required

8. GUARANTEE REQUIREMENTS

All items should be guaranteed for a minimum period of 24 months including after-sales service from the date of delivery/installation.

9. TIMEFRAME AND DELIVERY PERIOD

-The Goods shall be delivered to BMKG DAP **within 2 months** from the date of the confirmed order.

10. QUALIFICATION REQUIREMENTS

- Previous experience with the supply of similar goods (at least 3 years)

- Compliance with the Technical Specifications

- Compliance with the delivery terms and timeframe

- Complete Catalogues and information on the offered equipment including origin of goods

- Previous experience in delivery equipment and goods to Indonesia

Language Requirements:

All required manuals and certificates need to be provided in English and Indonesian. Additionally, the contractor is required to employ staff who can communicate verbally and in writing in required languages for any installation, commissioning, or after-sales purposes.