

Nomor : CBT/SPPH-26/MH/0388

Tanggal : 02 Juni 2026

**Kepada Yth,  
Pimpinan/Direktur  
Utama  
Rekanan PT SUCOFINDO (Persero)**

Perihal : **informasi Tender**

Bersama ini disampaikan informasi kebutuhan untuk Perusahaan kami yang akan kami adakan sebagaimana terinci dalam uraian barang/pekerjaan sebagai berikut:

No	Deskripsi	Jumlah	Pemenuhan	Pengguna
1	EMF Tester	1	Juli 2026	Cabang Timika
2	ESU Analyzer	1	Juli 2026	SBU Laboratorium
3	Fetal Doppler	1	Juli 2026	SBU Laboratorium
4	General Purpose Multi-Tissue Ultrasound Phanthom (CIRS/040GSE) USG Phantom	1	Juli 2026	SBU Laboratorium
5	Geomembrane Permeability Test Unit	1	Juli 2026	SBU Laboratorium
6	Kamera isafe	1	Juli 2026	SBU Laboratorium
7	LVDT Deflection Test Equipment (Sensor & display)	1	Juli 2026	SBU Laboratorium
8	Sensor LP471 Blue delta ohm	1	Juli 2026	SBU Laboratorium
9	Refractometer JOYRAY model eye	1	Juli 2026	SBU Laboratorium

Untuk kelancaran proses pengadaan, diharapkan perusahaan saudara dapat memenuhi persyaratan berikut:

1. Peserta tender harus sudah memenuhi lampiran wajib pada **aplikasi e-procurement SUCOFINDO**.
2. Memiliki Nomor Induk Berusaha (NIB) sesuai dengan kategori barang yang akan di supply.
3. Peserta wajib klik **Ikut Pengadaan** sebelum batas waktu.
4. Peserta tender yang memenuhi persyaratan akan mendapatkan undangan aanwijzing.

Demikian yang dapat disampaikan, atas partisipasi dan kerjasamanya kami ucapkan terimakasih.

**PT SUCOFINDO (PERSERO)**

**Ariq Valiandra**  
Kepala Bagian DUKBIS SBU Laboratorium

## Lampiran Spesifikasi CBT/SPPH-26/MH/0388

Nama barang/jasa <sup>a)</sup>	<b>EMF /Tester</b>
Merk	LUTRON/EXTECH
Type	
Persyaratan tambahan	<p>his EMF/ELF Single Axis Gauss Meter is designed to measure electromagnetic fields with extremely low frequency (ELF) of 30~300Hz.</p> <p>Easy to use and measures the level of EMF magnetic field radiation intensity from power lines, electric transmission equipment, computers, kitchen appliances, air conditioner, refrigerator video/audio device, and more!</p> <p><b>Features</b>                  Switch between the display of micro-Tesla and mini-Gauss.                  Data hold (HOLD), maximum (MAX) Hold function.                  Range display(20,200,2000).                  Low battery detector.                  Over load display "OL".                  Standard: CE and RoHS                  Made in Taiwan</p> <p><b>Specifications</b>                  Display: 3½ digits LCD, maximum reading 1999.                  Range: 200/2000 mG,20/200µT.                  Resolution: 0.1/1 mG or 0.01/0.1 µT.                  Frequency response: 30Hz to 300Hz.                  Sensor: Single Axis                  Accuracy: ±(2.5%±6dgt) at 50Hz/60Hz.                  Over load: LCD display "OL".                  Sample rate: 2.5 times per second.</p>
	<p>Battery: 9V                  Battery life: Approximate 100 hours.                  Operating temperature &amp; humidity: 5°C~40°C, below 80% RH.                  Storage temperature &amp; humidity: -10°C~60°C, below 70%.                  Weight: About 170g.                  Dimensions: 140(L)*65(W)*37.5(H)mm.</p> <p>Sertifikat kalibrasi menggunakan laboratorium Kalibrasi PT SUCOFINDO kecuali ada pernyataan tertulis dari laboratorium Kalibrasi PT SUCOFINDO bahwa tidak bisa melakukan kalibrasinya.                  Garansi 1 tahun, jaminan ketersediaan sparepart 10 tahun. Hasil uji coba alat harus disahkan oleh Chemist, Kasubag dan Kabag Kimia SBU.                  Laboratorium sebelum alat dikirim oleh supplier ke user atau cabang yang akan menggunakan alat tersebut</p>

Nama barang <sup>a)</sup>	<b>ELECTROSURGERY ANALYZER (ESU ANALYZER)</b>
Merk	Fluke Biomedical
Type	QA-ES III
Persyaratan tambahan	Sesuai Detail Spesifikasi
Detail Spesifikasi	<p><b>GENERAL SPECIFICATIONS</b>                  Spesifikasi :</p> <ul style="list-style-type: none"> <li>• Model:QA-ES III                      Measurement and test specifications                      Measure: Cut and Coag waveforms, monopolar and bipolar outputs                      Power and current measurement: true rms                      Bandwith: 30 Hz to 3MHz at -3dB including loads</li> </ul>
	<p>Delay time for single measurements 0.2 second to 4.0 second from foot switch activation to start of measurement</p> <ul style="list-style-type: none"> <li>• Power: Ranges 0.0 W to 99.9 W</li> <li>• Accuracy &lt;50 W +/- (6.25 % + 1 W)</li> <li>• ≥ 50 W : +/- 6.25 %</li> <li>• <b>Hardcase</b></li> <li>• <b>Sertifikat kalibrasi dan Performa</b></li> <li>• Aksesoris:                         <ul style="list-style-type: none"> <li>• CD Manual</li> <li>• CD Ansur Test Automation Software</li> <li>• Power Cord</li> <li>• Multi Stacking 4mm Banana Plug patch Cord 2mm</li> <li>• Kabel USB</li> <li>• RECM Alarm Disabling Lead</li> <li>• Alligator Chip Set (Black and Red)</li> <li>• ESU Dispressive Safety Lead</li> <li>• ECU CQM Safety Lead</li> <li>• Jumper Safety Lead</li> <li>• 40 Inch stackable/retractable safety leads: black, red(2), blue yellow, and green.</li> <li>• 20 inch stackable/retractable safety leads: black and red</li> <li>• Bipolar Activation Lead</li> </ul> </li> </ul> <p>A. Sertifikat kalibrasi menggunakan laboratorium kalibrasi PT. Sucofindo, kecuali ada pernyataan tertulis dari laboratorium kalibrasi PT. Sucofindo bahwa alat tidak bisa dilakukan kalibrasi</p> <p>B. Garansi 1 tahun, jaminan ketersediaan sparepart 10 tahun dan Training penggunaan alat dan cara kalibrasi alatnya</p> <p>Hasil uji coba alat harus disahkan oleh Engineer, Kasubag dan Kabag Kaltekes SBU Laboratorium, sebelum alat tersebut diterima di lab kalibrasi</p>

Nama barang <sup>a)</sup>	<b>FETAL DOPPLER</b>
Merk	ERSA
Type	FD 01
Persyaratan tambahan	Sesuai Detail Spesifikasi
Detail Spesifikasi	<b>GENERAL SPECIFICATIONS</b> Spesifikasi : > Static RATES : 30, 60, 90, 120, 150, 180, 210, and 240 BPM > Hardcase > Sertifikat kalibrasi terakreditasi

Nama barang <sup>a)</sup>	<b>General Purpose, Multi-Tissue Ultrasound Phantom (CIRS/040GSE) USG Phantom</b>
Merk	CIRS
Type	040-GSE

<b>DIMENSIONS</b>	17.8 cm x 12.7 cm x 20.3 cm (7" x 5" x 8")
<b>PHANTOM WEIGHT</b>	11 lbs. (4.1 kg)
<b>HOUSING MATERIALS</b>	ABS Plastic
<b>MEMBRANE</b>	Saran-based laminate
<b>TISSUE-MIMICKING MATERIAL</b>	Zerdine® solid elastic hydrogel

QTY	COMPONENT DESCRIPTION
1	Multi-Purpose, Multi-Tissue Ultrasound Phantom
1	Detachable Protective Cover
1	Detachable Water Well (1cm deep)
1	Detachable Endocavity Well
1	Carry Case
-	48-Month Warranty
-	User Guide
-	Certificate of Compliance

**AXIAL-LATERAL RESOLUTION GROUPS**

Wire diameter: 80 microns

Group 1&2 Depths: 3 & 6.5 cm  
 Axial separation: 4, 3, 2, 1, 0.5 & 0.25 mm  
 Lateral separation: 4, 3, 2, 1, 0.5 & 0.25 mm

Group 3 Depths: 10.5 cm  
 Axial separation: 5, 4, 3, 2 & 1 mm  
 Lateral separation: 5, 4, 3, 2 & 1 mm

**ANECHOIC STEPPED CYLINDERS**

Number of targets: 12  
 Diameter of targets: 1.3, 2.0, 3.0, 4.5, 6.7 & 10.0 mm  
 Depth of Targets: 1.5, 4.5, 7.0, 10.0, 13.0, 16.0 cm  
 Contrast: Anechoic, Cyst-80, 1mm

**GRAY SCALE TARGETS**

Group 1: 3 cm deep, Ø 8 mm  
 Contrast: -9, -6, -3, +3, +6 & > +15 dB with respect to back ground

Group 2: 11.5 cm deep, Ø 10mm  
 Contrast: -6, -3, +3, +6 & > +15 dB with respect to back ground

**ZERDINE® PROPERTIES**

Freezing point: 0° C  
 Melting point: Above 100° C  
 Speed of Sound: 1540 m/s  
 Other: Compatible with harmonic imaging

**VERTICAL DISTANCE GROUP**

Number of targets: 16  
 Wire diameter: 100-micron, nylon monofilament  
 Depth range: 1 to 16 cm  
 Spacing: 10 mm

**HORIZONTAL DISTANCE GROUP**

Number of groups: 2  
 Wire: 100-micron, nylon monofilament  
 Depths: 4 & 9 cm  
 Number of Targets: 6 & 7 respectively  
 Spacing: 10 & 20 mm respectively

**NEAR FIELD GROUP**

Number of targets: 5  
 Wire Diameter: 100 microns  
 Depth range: 1 to 5 mm  
 Distance b/w Targets: 1 mm

**ELASTICITY TARGETS**

Group 1: 1.5 cm deep, Ø 6 mm  
 Group 2: 5 cm deep, Ø 8 mm  
 Elasticity: 10, 40 & 60 kPa  
 Grayscale Contrast: 0 db with respect to background

Nama barang a)	<b>KAMERA ISAFE</b>
Merk	ISAFE
Type	IS655.2
Persyaratan tambahan	<p>ATEX SMARTPHONE ISAFE MOBILE IS655.2 Zone 2/22                      IMEI Ready for Local SIM Card.                      Anti Blokir</p> <p>ATEX approval:                      EX-zone 2/22                      II 3G Ex ic IIC T4 Gc IP54                      II 3D Ex ic IIIB T135°C                      Dc IP54</p> <p>IECEx approval:                      EX-zone 2/22                      Ex ic IIC T4 Gc IP54                      Ex ic IIIB T135°C Dc IP54                      Weight : 203 g                      PTT Ready : optional (third party application provided)                      Frequencies : GSM B2/B3/B5/B8                      WCDMA B1/B5/B8                      LTE-FDD B1/B3/B5/B7/B8/B20/B28A/B28B                      LTE-TDD B38/B40/B41/(120M)                      Wifi : 5 GHz</p> <p>Operating System : Android 9.0                      Size : 152,5 x 75,4 x 12,58 mm                      IEEE 802.11 b/g/n/ac with hotspot                      NFC : yes                      Display : 5,5" HD+ 18:9 capacitive touchscreen with a resolution of 720 x 1440 pixel                      Processor : Media Tek Helio P22 (MT 6762V)                      Memory : 32 GB internal memory, 3 GB RAM</p>

Persyaratan tambahan	Micro SD : up to 128 GB Connection : micro SD Sim card slots : dual nano Sound : amplified loudspeaker Cameras : 2 cameras, 13 MP rear camera and 8 MP front camera Battery : integrated 4200 mAh battery Operating temperature : -10 °C to 60 °C Protection type : IP68 Included : Smartphone with integrated battery, charger, USB cable, quick start manual and safety instructions
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Nama barang <sup>a)</sup>	<b>GEOMEMBRANE PERMEABILITY TEST UNIT</b>
Merk	DONGGUAN / HAIDA
Type	-
Persyaratan tambahan	Sesuai detail spesifikasi
Detail Spesifikasi	<ul style="list-style-type: none"> <li>&gt; Dongguan / Haida / Setara</li> <li>&gt; Performs "foam testing" to ASTM D3574 &amp; EN ISO 7231</li> <li>&gt; Designed to meet air permeability standards for : paper, Textile, and Nonwovens</li> <li>&gt; Automatic Ranging system detects the size of the installed test head and determines the pressure range required</li> <li>&gt; The powerful, yet quiet vacuum accommodates a variety of test plates to suit every application and features easy calibration for daily check</li> <li>&gt; The long arm and large table allow for larger sample to be evaluated in multiple areas</li> <li>&gt; 20cm testhead standard for calibration</li> <li>&gt; Performs "face mask Testing" to EN 14683</li> <li>&gt; Display touch screen</li> <li>&gt; Test result can be stored to the main controller for retrieval or USB drive</li> </ul>

Nama barang <sup>a)</sup>	<b>LVDT DEFLECTION TEST EQUIPMENT</b>
Merk	OMEGA / KEYENCE / SYLVAC
Type	D62S ADV 804-1063
Persyaratan tambahan	Sesuai detail spesifikasi
Detail Spesifikasi	<ul style="list-style-type: none"> <li>&gt; <b>Display</b> <ul style="list-style-type: none"> <li>• Display Touch Screen 8,5"</li> <li>• IP65 front panel</li> <li>• Configure user interface</li> <li>• Navigation buttons</li> <li>• Numeric keypad</li> <li>• Standby Button</li> <li>• Master switch for the unit</li> <li>• Connector 24 V power supply</li> <li>• USB Port and LAN port</li> <li>• Sylvac atau setara</li> </ul> </li> <li>&gt; <b>Sensor</b> <ul style="list-style-type: none"> <li>• Measuring range 25,4mm</li> <li>• Force 0.7-1.3</li> <li>• Resolution 0.01 µm</li> <li>• Max error 0.8 µm</li> <li>• Repeatability 0.08 µm</li> <li>• Power supply with usb C</li> </ul> </li> </ul>

Nama barang <sup>a)</sup>	<b>Sensor LP471 Blue Delta Ohm</b>
Merk	DELTA OHM
Type	LP-471
Persyaratan tambahan	Sesuai Detail Spesifikasi

Detail Spesifikasi	<b>GENERAL SPECIFICATIONS</b> Spesifikasi : <ul style="list-style-type: none"> <li>• Rentang Spektral: 380 nm – 550 nm.</li> <li>• Rentang Pengukuran: 1 mW/m<sup>2</sup> hingga 2000 W/m<sup>2</sup>.</li> <li>• Unit Pengukuran: Watt per meter persegi (W/m<sup>2</sup>) atau mikrowatt per sentimeter persegi (µW/cm<sup>2</sup>).</li> <li>• Digunakan untuk mengukur irradiansi (W/m<sup>2</sup>) dalam rentang spektral cahaya biru, dengan panjang gelombang antara 380 nm hingga 550 nm</li> <li>• Hardcase, Sertifikat Kalibrasi</li> </ul>
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Nama barang <sup>a)</sup>	<b>Refractometer JOYRAY model eye</b>
Merk	JOYRAY
Type	Model Eye
Persyaratan tambahan	Sesuai Detail Spesifikasi

Detail Spesifikasi	<b>GENERAL SPECIFICATIONS</b> Spesifikasi : <ul style="list-style-type: none"> <li>• 0D, +2.5D, -2.5D, +5.0D, -5.0D, +10.0D, -10.0D, +15.0D, -15.0D, +20.0D, -20.0D</li> <li>• Softcas bag</li> <li>• Sertifikat kalibrasi terakreditasi</li> </ul>
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