

TERM OF REFERENCE (TOR) BARANG



No. PR: CBT/PR-26/INV/0578

1. TUJUAN PENGADAAN

Investasi bertujuan sebagai alat untuk Pengujian di Laboratorium Petroleum.

Kebutuhan pengadaan untuk kegiatan portofolio Laboratorium SBU Laboratorium sub bagian MGK.

2. SPESIFIKASI TEKNIS

Nama barang ^{a)}	Main Unit Instrument Portable Mercury Survey Meter Include Calibration Kit (For Calibration of EMP-3) Single-point (manual) Calibration Kit
Merk	NIC (Nippon Instrument Corporation)
Type	-
Persyaratan tambahan	Spesifikasi Terlampir
Jumlah	1 Unit

LAMPIRAN TOR Mercury Surveymeter Portable

Type : EMP-3 + Carring case



Specification

Samples	Workplace, ambient air, petroleum gases, liquid samples* (*with additional accessories)
Measurement Principle	Non Dispersion double beam cold absorption spectrometry
Light Source	Low pressure mercury discharge lamp
Detector	Semiconductor detector (with 254 nm bandpass filter)
Detection Limit; Precision	0.1 yg/Nm ³ (Normal)
Measuring range	0-2000 yg/Nm ³ ; 0-20000 yg/Nm ³ (*2) *2 when used with Hi-Lutor option
Flow rate at measurement	1 L/min
Zero correction	Automatic zero correction
Resolution	STATIC mode (Stationary mode) : 0.1 yg/Nm ³ (999.9) MOBILE mode (Portable mode) : 1 yg/Nm ³
Display	4.3-inch color LCD (480 x 272 pixels, 16.77 million colors)
Operation	Touchscreen
Onscreen data	Instantaneous value, average value, maximum value, trend graph on a specified time scale, level gauge (linked with an alarm setting)
Data logging	Saved in CSV files or in the internal onboard 4GB memory (capacity up to 20,000 hours)
Data output	USB flash drive

Alarm method	Alarm buzzer and screen flashing (The alarm setpoint is configurable)
Other functions	Temperature compensation, pressure compensation. GPS information recording
Power source	Dedicated nickel hydride battery (continuous operation : 5.5 hours at 25°C)
Operating conditions	Temperature : 0-45°C, humidity : 10-80%RH (No dew condensation)
Dimensions, weight	207W x 115D x 140H, 1.6kg (including the battery)
Standard accessories	Probe, probe filter, battery x 2, battery charger x 1, shoulder/waist belt, USB flash drive, carrying case

Type: CK-2



Method	Injection Vapor Standard Gas Mercury
Included	-MB-1 STD Gas Box
	-Gil Air Plus Basic
	-Tedlar Bag(5Lx5 bags)
	-Included with carrying case

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1. TUJUAN PENGADAAN

Sebagai alat untuk melakukan analisa Cold Finger.

Kebutuhan pengadaan untuk kegiatan portofolio Laboratorium **SBU Laboratorium sub bagian MGK.**

2. SPESIFIKASI TEKNIS

Nama barang ^{a)}	Cold Finger Apparatus
Merk	F5 Technologie/Tech Box/Anton Paar
Type	.64 / 0102000001
Persyaratan tambahan	<p>0102000001 Cold Finger Model .64 1 Unit</p> <ul style="list-style-type: none"> • Turn Key cold Finger apparatus with 6 places, fully automated • 6 cold finger units with standard cold finger insert (wipe off method) • Diameter of 12 mm for 100mL standard sample bottles • Sample Temperature Range : ambient to +60°C • Sample Volume 50 to 250 mL • The Sample bottles are air tight to prevent loss of volatile sample fractions (especially suitable for light oil samples) • Cold finger temperature accuracy 0.2 K (typically) • Sample Pressure is Ambient, Air-Tight sample bottles • 6 Place Magnetic stirrer 0/60-2000 rpm, water proof, high power stirrer bars • New feature : Programmable stirrer speed ramps for variable shear rate simulation • Sample heating bath with heating thermostat, PLC controlled • External stand for easy access to the cold finger units. All 6 units can be taken out of the bath together and put on this stand for test preparation and cold finger retrieving after the test • Separate cold finger cooling thermostat, PLC controlled • Temperature sensor in each cold finger. This provides accurate and equal cold finger temperature control in each place (no temperature difference between cold fingers) by distributing exactly the required cooling fluid amount of each cold finger individually) • Different cold finger temperatures possible (controlled temperature difference between cold fingers) • Sample and cold finger temperature ramps possible • Temperature unit display °C/°F switchable • PLC with color graphics touch screen for control and automation • Stand-alone operation without PC. Data storage on a USB Stick. • PC is not required but can be connected
	<ul style="list-style-type: none"> • USB Interface a standard windows PC with one free USB port can be used, no special/proprietary hardware inside the PC required • Win CF 1.31 Windows control and data visualization software included • Only one mains power socket is required (external devices will be supplied from the mains unit) • Main Power is 240 VAC at 50 Hz, 3500 W max single phase • Digital Balance 1 Unit; Resolution : 0.001 g; Max Weight : 350 g
Jumlah	1 Unit

SYARAT-SYARAT UMUM BAGI PENYEDIA EKSTERNAL (*)**

1 Keagenan

Penyedia Eksternal merupakan distributor/dealer/agen yang ditunjuk resmi oleh pabrik atau pemegang hak cipta untuk pemasaran di Indonesia yang dibuktikan dengan surat resmi penunjukan dari distributor tunggal.

2 Pengalaman Implementasi

Penyedia Eksternal berpengalaman dalam instalasi dan implementasi dengan melampirkan referensi-referensi dari perusahaan lain yang menggunakan alat tersebut.

3 Pelayanan Purna Jual/ Maintenance

Penyedia Eksternal harus memberikan garansi selama 12 bulan/1 tahun sejak dibuatnya Berita Acara Uji Coba.

Yang dimaksud dengan garansi adalah:

- Garansi suku cadang selama 12 bulan/1 tahun dan service selama 12 bulan/1 tahun;
- Tersedianya suku cadang;
- Tersedianya teknisi yang berpengalaman dan tercatat sebagai pegawai tetap, untuk perbaikan alat dan sanggup datang segera jika diperlukan;
- Selama masa garansi bila perbaikan-perbaikan dilakukan diluar SUCOFINDO dalam jangka waktu yang cukup lama, maka pemasok berkewajiban untuk meminjamkan peralatan pengganti, supaya operasional SUCOFINDO tidak terganggu.