KERANGKA ACUAN KERJA (KAK)

BELANJA MODAL
ALAT KEDOKTERAN UMUM MESIN ANESTESI

TAHUN ANGGARAN 2026

PROGRAM	**:**	**PENUNJANG URUSAN PEMERINTAH DAERAH KABUPATEN / KOTA**
KEGIATAN	**:**	**PENINGKATAN PELAYANAN BLUD**
PEKERJAAN	**:**	**BELANJA MODAL ALAT KEDOKTERAN UMUM MESIN ANESTESI**
ANGGARAN	**:**	**Rp.650.000.000 ,-**
LOKASI	**:**	**RSUD dr. SOEHADI PRIJONEGORO SRAGEN**

RSUD dr. SOEHADI PRIJONEGORO SRAGEN
TAHUN 2026

KERANGKA ACUAN KERJA (KAK)

PROGRAM	:	**PENUNJANG URUSAN PEMERINTAH DAERAH KABUPATEN / KOTA**
KEGIATAN	:	**PENINGKATAN PELAYANAN BLUD**
PEKERJAAN	:	**BELANJA MODAL ALAT KEDOKTERAN UMUM MESIN ANESTESI**
TAHUN ANGGARAN	:	**2026**
LOKASI	:	**RSUD dr. SOEHADI PRIJONEGORO SRAGEN**

A. LATAR BELAKANG

RSUD dr. Soehadi Prijonegoro Sragen merupakan lembaga teknis di pemerintahan Kabupaten yang bernaung di pemerintahan Kabupaten Sragen, salah satu tugas pokoknya adalah pelayanan kesehatan bagi masyarakat.

Atas dasar itu Pemerintah Kabupaten Sragen c.q. RSUD dr. Soehadi Prijonegoro Sragen dalam melayani kesehatan msyarakat bermaksud untuk meningkatkan pelayanan administrasi perkantoran melalui penyediaan peralatan dan perlengkapan kantor berupa Peralatan Kedokteran Umum pada RSUD dr. Soehadi Prijonegoro Sragen. Dengan mempertimbangkan bahwa Peralatan Kedokteran Umum Mesin Anestesi tersebut mempunyai peran dan fungsi yang sangat penting untuk pelaksanaan tupoksi bagi aparatur/tenaga administrasi.

Untuk memenuhi kebutuhan tersebut RSUD dr. Soehadi Prijonegoro Sragen bermaksud mengadakan pekerjaan pengadaan yaitu belanja modal pengadaan alat kedokteran umum Mesin Anestesi

Dalam KAK ini akan dijelaskan maksud dan tujuan, sasaran, ruang lingkup pekerjaan, anggaran yang disediakan serta keluaran yang harus dihasilkan.

B. MAKSUD DAN TUJUAN

Maksud dari pelaksanaan kegiatan penyediaan ini adalah terlaksananya pengadaan alat kedokteran umum Mesin Anestesi

Tujuan dari kegiatan ini adalah tersedianya peralatan kesehatan yang dapat menunjang pelaksanaan kegiatan.

C. SASARAN

Sasaran dari pekerjaan ini adalah terwujudnya pelaksanaan pengadaan peralatan kedokteran umum Mesin Anestesi pada RSUD dr. Soehadi Prijonegoro Sragen.

D. DASAR HUKUM PELAKSANAAN

Dasar hukum dalam kegiatan penyediaan peralatan dan perlengkapan kantor ini meliputi :

1. Undang-Undang Nomor 17 Tahun 2003 tentang Keuangan Negara
2. Undang-Undang Nomor 1 Tahun 2004 tentang Perbendaharaan Negara
3. Peraturan Presiden Nomor 16 Tahun 2018 tentang Pengadaan Barang/Jasa Pemerintah
4. Peraturan Presiden Nomor 12 Tahun 2021 tentang Perubahan atas Peraturan Presiden Nomor 16 Tahun 2018 tentang Pengadaan Barang/Jasa Pemerintah
5. Peraturan Direktur RSDU dr. Soehadi Prijonegoro Sragen nomor 2517 tahun 2021 tentang Pengadaan Barang dan Jasa Rumah Sakit Umum Daerah dr. Soehadi Prijonegoro Sragen

E. LOKASI PEKERJAAN

Lokasi pekerjaan adalah Kantor RSUD dr. Soehadi Prijonegoro Sragen Jl. Raya Sukowati No. 534 Sragen.

F. SUMBER PENDANAAN

Pelaksanaan kegiatan ini dibiayai oleh Dana BLUD RSUD dr. Soehadi Prijonegoro Sragen Tahun Anggaran 2026 pada Dokumen Pelaksanaan Anggaran (DPA) RSUD dr. Soehadi Prijonegoro Sragen kegiatan Pelayanan Kesehatan RSUD dr. Soehadi Prijonegoro Sragen (BLUD) dengan data sebagai berikut :

Kode Rekening	:	5.2.02.99.099.09999/08
Uraian	:	Belanja Modal Alat Kedokteran Umum Mesin Anestesi
Nilai HPS	:	Rp . 644.151.361,- (termasuk PPN 11%)
Alokasi Dana	:	BLUD

G. KELUARAN

Adapun keluaran dari kegiatan ini tersedianya Alat Kedokteran Umum Mesin Anestesi pada Kantor RSUD dr. Soehadi Prijonegoro Sragen sebagai berikut :

Operating characteristics	
Weight of the large trolley	Approx. 160 kg (353 lbs), basic setup
Dimensions of the large trolley (may deviate with hardware options)	(W x H x D) 93.3 cm x 140.3 cm x 72.4 cm (36.7 in x 55.2 in x 28.5 in)
Dimensions of the work surface of the large trolley	(W x D) 71 cm x 38 cm (28.0 in x 15.0 in)
Storage space and work surface	1 lockable drawer, size (W x H x D) 37.9 cm x 15.4 cm x 36.4 cm (14.9 in x 6.06 in x 14.3 in), volume approx. 20 litres, large version with 2 additional drawers
Material of the main housing parts	ABS
Power consumption	<95 W, during mechanical ventilation, maximum 400 W
Mains voltage	100 to 240 V AC at 50/60 Hz
Internal battery backup time	At least 45 min, typically 120 min (with fully charged battery)
Data interfaces	2 x serial ports (RS232) (MEDIBUS.X protocol), 1 x USB port, 1 x LAN
Connectivity, interoperability	Support of Data Analytics and Digital Services via Dräger Connect; compatible with Dräger Connectivity Converter CC300 to comply with ISO/IEEE 11073 SDC interoperability principles
Auxiliary power socket (option)	4 country-specific power sockets, individually fused with 2 fuses per socket
Intended patient population	Adults, paediatric patients, and neonates
Gas supply	
Available as a 3-gas version (O2/AIR/N2O), monitoring of supply pressure and electronic measurement of cylinder pressures (when using optional Dräger pressure reducer)	
Central gas supply, supply pressure for O2, AIR, N2O	2.7 to 6.9 kPa x 100 (39 to 100 psi)
Gas supply with gas cylinders (O2, AIR, N2O)	1 or 2 standing gas cylinders (option) Park holder for 1 additional standing gas cylinder
Fresh-gas delivery	
Gas mixer technology	Mechanically controlled gas mixer with flowtubes
Fresh-gas flow (FG flow)	Off to at least 10.0 L/min (O2, Air, and N2O)
O2 flush	25 to 75 L/min at 2.7 to 6.9 kPa x 100 (39 to 100 psi; 0.27 to 0.69 MPa) supply pressure
O2 flow with external flowmeter (Aux. O2)	Off to 15 L/min
Ventilator and setting parameters	
Electronically driven piston ventilator (E-Vent plus), fresh-gas decoupled, ventilation without drive gas i.e. no medical gases are consumed in operating the ventilator (regardless of gas supply). Adaptive piston control for optimised gas exchange times and fresh-gas utilisation, piston volume automatically adjusted according to patient category setting and ventilation parameters.	
Ventilation modes	Manual/Spontaneous (Man/Spon) VC-CMV Volume-controlled, synchronised (VC-SIMV) Pressure-controlled, synchronised (PC-SIMV) External fresh-gas outlet
Ventilation modes (Optional)	AutoFlow time controlled (VC-CMV/AF) AutoFlow, synchronised (VC-SIMV/AF)

	CPAP / PSV
Respiratory rate (RR)	3 to 100 /min
Inspiratory time (Ti)	0.2 to 10.0 s (resulting ratio I:E 1:49 to 49:1)
Ratio of inspiratory time to expiratory time (I:E)	4:1 to 1:10 (setting parameter I:E)
Tidal volume (VT) at VC modes (setting parameter)	10 to 1500 mL
Tidal volume monitoring, lowest detectable VT	≤3 mL for the "Paediatric patients" and "Neonates" patient categories ≤20 mL for the "Adults" patient category
Trigger threshold (Trigger)	0.3 to 15 L/min
Peak inspiratory flow	180 - 220 L/min
Inspiratory pressure (Pinsp)	PEEP +5 to 80 hPa (cmH2O (7 to 80 hPa (cmH2O) when PEEP = Off)
Pressure limitation (Pmax)	PEEP +5 to 80 hPa (cmH2O) (7 to 80 hPa (cmH2O) when PEEP = Off)
Pressure support above PEEP (ΔPsupp)	Off, 3 to (80 - PEEP) hPa (cmH2O) (Off, 3 to 78 hPa (cmH2O) when PEEP = Off)
Positive end-expiratory pressure PEEP	Off, 2 to 35 hPa (cmH2O)
Breathing system	
Heated breathing system for low-flow and minimum-flow applications, disassembly without tools, design optimised for easy and effective hygienic reprocessing. All patient-gas leading components are autoclavable.	
Total volume without CO2 absorber	2.18 L when applying the maximum VT of 1500 mL, typically lower volume acc. to patient category setting and ventilation parameters
Filling volume of the CO2 absorber	Reusable CO2 absorber: 1500 mL ±50 mL
Reprocessing	Cleaning, disinfection, replaceable without tools, less than 13 reprocessing relevant components (depends on the machine configuration)
Vaporizer	Dräger Vapor® 2000, termasuk 2
Anaesthetic gas scavenging system (AGS)	
Available as active or passive anaesthetic gas scavenging system for operation with or without adequate scavanging system infrastructure; detection of excessive suction flows, with connector for sample gas disposal when using third-party patient gas measurement modules.	
Active AGS	For connection to an anaesthetic gas scavenging system With a control valve (option) or an ejector (option)
Passive AGS	For connection to a disposal system with low or no suction flow With overpressure valve and underpressure valve
Displays and monitoring systems	
Main screen	15.3" (38.9 cm) TFT LCD touchscreen, configurable screen contents, smart alarm management with extensive support system
Screen configuration	Depending on the machine configuration, simultaneous display of 2 or 3 real-time colour-adjustable waveforms for: airway pressure, inspiratory and expiratory flow, CO2, O2, and anaesthetic agents; tabular trends; quick access to 3 configurable views
Front panel	Flow tubes for display of the set fresh-gas flow, pressure gauges for gas supply from central supply and display for mains power supply and internal battery
Trends and Loops	Display of graphical trends and loops (Volume-Pressure and Flow-Volume); additional data export functions via USB storage device
Ventilation monitoring	Minute volume (MV) and tidal volume (VT and ΔVT); respiratory rate (frequency); peak inspiratory pressure (PIP), plateau pressure (Pplat), mean airway pressure (Pmean), PEEP; dynamic compliance (Cdyn), resistance (R), elastance (E), external pressure gauge (optional) for indicating the pressure in the internal breathing system

Demikian rencana pelaksanaan kegiatan Pelayanan Kesehatan RSUD dr. Soehadi Prijonegoro Sragen (BLUD) pada RSUD dr. Soehadi Prijonegoro Sragen Tahun Anggaran 2026 diajukan dalam bentuk Kerangka Acuan Kerja (KAK).

Sragen, 6 Maret 2026
Pejabat Pembuat Komitmen
RSUD dr. Soehadi Prijonegoro Sragen

dr. Dwi Budi Wahyono, Sp.KFR.
NIP. 19780815 200501 1 006