

**DODATEK ŠT. 1:**

- **Dopolnitve in spremembe dokumentacije v zvezi z javnim naročilom št. JN02/2018/oprema za dobavo opreme za posodobitev sistema vodenja PCS7 in COM500 v ČHE Avče**

Prvotno besedilo v DJN za dobavo opreme za posodobitev sistema vodenja PCS7 in COM500 v ČHE Avče se nadomesti/dopolni z novim besedilom, kot sledi:

Št.	Knjiga-del	Točka	Stran	Prejšnje besedilo	Novo besedilo
1.	Tehnične specifikacije za nabavo	7.	7/29	Tabela tehnične specifikacije za nabavo, postavka 34, opis: Licenca za COM500: Opis: Sprememba/dokup ene IEC 60870-5-104 slave licence namesto IEC 60870-5-101 za COM500 (obstoječa licenca je na USB ključku; potrebna dobava novega ključka z novo licenco)	Tabela tehnične specifikacije za nabavo, postavka 34, opis: Licenca za COM500: Opis: <b>Sprememba/dokup ene IEC 60870-5-104 slave licence namesto IEC 60870-5-101 za COM500 in nadgradnja celotne licence na zadnjo dobavljivo, ki mora podpirati namestitev na Windows 7 32 bitni operacijski sistem (obstoječa licenca verzija 9.2 SP1 je na USB ključku; potrebna dobava novega ključka z novo licenco).</b> Nova tabela Tehnične specifikacije za nabavo je podana v prilogi 1.

**Priloga 1: Tabela tehnične specifikacije za nabavo**

## 7. TEHNIČNE SPECIFIKACIJE ZA NABAVO

Postavka	Opis	Koda	Opis	Količina	Enota
1	HW Unit- Panel IPC	6AV7260-2GE41-0CX6	SIMATIC IPC677D (Panel PC), 2x10/100/1000 Mbit/s Ethernet; 4x USB V3.0, 1x serial (COM1); Watchdog, temperature and Fan monitoring; RAID controller onboard; 22" Touch (1920x 1080); with front USB XEON E3-1268LV3 (4C/8T, 2.3 (3.3) GHz, 8 MB cache VT-D, AMT) 500 GB HDD SATA; DVD+/-RW; 16 GB DDR3 1600 DIMM; 1x PCIE (X16); 1x PCI without expansion (HW) Windows 10 IoT Enterprise LTSB 2015, 64 bit, MUI (en, de, fr, it, sp); without expansion (software) 24 V DC industrial Power supply	1	kos
2	CP1623	6GK1162-3AA00	COMMUNICATION PROCESSOR CP 1623 PCI EXPRESS X1 (3.3V/12V) FOR CONNECTING WITH IND.ETHERNET(10/100/1000MBIT/S) WITH 2-PORT-SWITCH(RJ45) VIA HARDNET-IE S73 AND S7-REDCONNECT SUPPORT FOR OPERATING SYSTEM SEE SIMATIC NET SW ENABLED FOR SIMATIC NET CD V7.0 HF1 OR HIGHER	1	kos
3	HW OS server	6ES7660-7XG21-8FC0	SIMATIC PCS 7 INDUSTRIAL WORKSTATION IPC547G (RACK PC, 19", 4HU), Interfaces: 2x Gbit Ethernet (RJ45); 1x DVI-D; 2x Display Port V1.2 1x COM; 2x PS/2; Audio; 2x USB 3.0 on the front, 4x USB 3.0 & 4x USB 2.0 on the rear, 1x USB 2.0 internal; 7 slots: 5x PCI Express, 2x PCI; Temperature and fan monitoring, Watchdog, Card retainer; Core i7-6700 (4C/8T, 3.4(4.0) GHz, 8 MB cache); MB (chipset C236) - spare part RAID1, 1 TB (2x1 TB HDD) in removable frame, hot-swap, on front; 16 GB DDR4 SDRAM (2x 8 GB), Dual channel; Industrial Ethernet (CP1623) without PCS 7 restore DVDs, without pre-installation Windows Server 2012 R2 Standard Edition incl. 5 clients, 64 bit, MUI (en, de, fr, it, sp, ch) enclosure blue chromated, DVD+/-RW (Slim), incl. 1xDP according to DVI-D cable adapter 100/240V AC industrial power supply unit; without line cable	2	kos

Postavka	Opis	Koda	Opis	Količina	Enota
4	HW OS client	6ES7660-7XG28-8BD0	SIMATIC PCS 7 INDUSTRIAL WORKSTATION IPC547G (RACK PC, 19", 4HU), Interfaces: 2x Gbit Ethernet (RJ45); 1x DVI-D; 2x Display Port V1.2 1x COM; 2x PS/2; Audio; 2x USB 3.0 on the front, 4x USB 3.0 & 4x USB 2.0 on the rear, 1x USB 2.0 internal; 7 slots: 5x PCI Express, 2x PCI; Temperature and fan monitoring, Watchdog, Card retainer; Core i7-6700 (4C/8T, 3.4(4.0) GHz, 8 MB cache); MB (chipset C236) - spare part RAID1, 1 TB (2x1 TB HDD) in removable frame, hot-swap, on front; 16 GB DDR4 SDRAM (2x 8 GB), Dual channel; without additional system bus Communication card without PCS 7 restore DVDs, without pre-installation Windows 10 IoT Enterprise 2015 LTSB, 64 bit, MUI (en, de, fr, it, sp, ch) enclosure blue chromated, DVD+-RW (Slim), Multi Monitor 4 screens (combined, onboard interfaces (2xDP) + Dual Head PCIe x16 boards (2xDP)), incl. 1xDP according to DVI-D Cable adapter incl. 1xDual DVI-I adapter for dual head PCIe x16 boards 100/240V AC industrial power supply unit; without line cable	1	kos
5	HW ES fix	6ES7660-7XG28-8BC0	SIMATIC PCS 7 INDUSTRIAL WORKSTATION IPC547G (RACK PC, 19", 4HU), Interfaces: 2x Gbit Ethernet (RJ45); 1x DVI-D; 2x Display Port V1.2 1x COM; 2x PS/2; Audio; 2x USB 3.0 on the front, 4x USB 3.0 & 4x USB 2.0 on the rear, 1x USB 2.0 internal; 7 slots: 5x PCI Express, 2x PCI; Temperature and fan monitoring, Watchdog, Card retainer; Core i7-6700 (4C/8T, 3.4(4.0) GHz, 8 MB cache); MB (chipset C236) - spare part RAID1, 1 TB (2x1 TB HDD) in removable frame, hot-swap, on front; 16 GB DDR4 SDRAM (2x 8 GB), Dual channel; without additional system bus Communication card without PCS 7 restore DVDs, without pre-installation Windows 10 IoT Enterprise 2015 LTSB, 64 bit, MUI (en, de, fr, it, sp, ch) enclosure blue chromated, DVD+-RW (Slim), incl. 1xDP according to DVI-D cable adapter 100/240V AC industrial power supply unit; without line cable	1	kos

Postavka	Opis	Koda	Opis	Količina	Enota
6	HW ES prenosnik	6ES7717-1BB00-0BA4	SIMATIC Field PG M5 Advanced; I7-6820EQ (2.8 to 3.5 GHz; 4 kernels+hyperthreading; 8 MB SMART cache); 15.6" display; Full HD (1920x 1080); WLAN 802.11AC & Bluetooth V4.0; DVD +/-RW; HD graphic 530 1x 16 GB DDR4 SD-RAM SO-DIMM 512 GB SSD SATA (2.5"); without S5 interface, without S5-EPROMMER Line cable with power plug: Europe; Keyboard: QWERTZ/QWERTY Windows 10 Enterprise, 64 bit; Trial License for STEP7 Prof combo (V14 & 2010), WinCC Advanced combo (V14 & WinCC flexible 2008) VERSION OF SOFTWARE V14.0.1.1	1	kos
7	HW ET200 SPZ	6ES7153-2BA10-0XB0	SIMATIC DP, ET 200M INTERFACE IM 153-2 HIGH FEATURE FOR MAX. 12 S7-300 MODULES, WITH REDUNDANCY, TIME STAMPING FIT FOR ISOCHRON MODE NEW FEATURES: 12 MODULES / STATION SLAVE INITIATIVE FOR SWITCHES AND DRIVE ES EXTENDED DATA FOR HART SECON- DARY VARIABLES OPERATON WITH 64PT MODULES EXTENDES TIMESTAMPS WITH 32 SIGNALS / SLOT +++ SEE COMPATIBILITY NOTES IN IN THE MANUAL +++	1	kos
8	BUS module	6ES7195-7HA00-0XA0	SIMATIC DP, BUS UNIT FOR ET200M F. THE INTEGR.OF 1 PS A.1 IM153 FUNCTION:INSERT/REMOVE-MODULE WHILE OPERATING MODE RUN INCL. COVER FOR BUS UNIT	1	kos
9	BUS module	6ES7195-7HB00-0XA0	SIMATIC DP, BUS UNIT FOR ET200M F. THE INTEGR.OF TWO 40 MM WIDE I/O SUBMODULES FOR INSERT/REMOVE	3	kos
10	Rack	6ES7195-1GF30-0XA0	SIMATIC DP, Mounting rail for ET 200M, 530 mm long, for holding up to 5 bus modules for removal and insertion function	1	kos
11	HW touch panel (TP) za WinCC comfort	6AV2124-0GC01-0AX0	SIMATIC HMI TP700 COMFORT, COMFORT PANEL, TOUCH OPERATION, 7" WIDESCREEN-TFT-DISPLAY, 16 MIL. COLORS, PROFINET INTERFACE, MPI/PROFIBUS DP INTERFACE, 12 MB USER MEMORY, WINDOWS CE 6.0, CONFIGURABLE FROM WINCC COMFORT V11	3	kos

Postavka	Opis	Koda	Opis	Količina	Enota
12	HW CP Ethernet modul	6GK7443-1EX30-0XE0	SIMATIC NET CP 443-1 2 X 10/100 MBIT/S (IE SWITCH); RJ 45 PORTS; ISO; TCP; UDP; PROFINET-IO CONTROLLER; S7-COMMUNICATION; OPEN COMMUNICATION (SEND/RE-CEIVE); S7-ROUTING; IP-CONFIGURATION VIA DHCP/BLOCK; IP ACCESS CONTROL LIST; TIME-SYNCHRONISATION; EXTENDED WEB-DIAGNOSIS; FAST STARTUP; PROFIENERGY SUPPORT	4	kos
13	HW Monitor	24" full HD		4	kos
14	Miška USB		USB optična miška s kolesčkom in 3 gumbi, dolžina kabla priložene miške najmanj 1,5m	3	kos
15	Tipkovnica USB		USB tipkovnica s slovenskim naborom znakov (nalepke za SLO znake na tipkovnici niso dovoljene)	3	kos
16	USB Extender	Digitus DA-70139-2		2	kos
17	Mini Cat 5 DVI Extender	ATEN VE066T		2	kos
18	LIC OS SRV red	6ES7652-3BA58-2YA0	SIMATIC PCS 7, SOFTWARE, OS SOFTWARE SERVER REDUNDANCY V9.0 (PO 100) SINGLE LICENSE F.2 INSTALLATION R-SW, WITHOUT SW AND DOCU. LICENSE KEY ON USB STICK, CLASS A, 5 LANGUAGES (G, E, F, I, S), EXECUTABLE UNDER SERVER 2012 R2 FURTHER INFORMATION SEE PCS 7 V9.0 README REFERENCE-HW: PCS 7 IPC BUNDLE	1	kos
19	LIC OS RT 100	6ES7658-2XA00-0XB0	SIMATIC PCS 7, SOFTWARE RUNTIME LICENSE OS (PO 100) SINGLE LICENSE F.1 INSTALLATION R-SW, WITHOUT SW AND DOCU. LICENSE KEY ON USB STICK, CLASS A, REFERENCE-HW: PCS 7 IPC BUNDLE, PCS 7 BOX BUNDLE	10	kos
20	LIC HARDNET IE REDCONNECT	6GK1716-0HB14-0AA0	HARDNET-IE S7 REDCONNECT V14 incl. OPC Server and IE-S7 SW for fail-safe S7 comm; Floating License; R-SW, SW + electr Manual on DVD, License key on USB stick, Class A 2 languages (de, en); for 32/64 Bit: Win 7 SP1 Prof/Ult, 64Bit: Win 8.1 PRO; Windows 10, Server 2008 R2 SP1, 2012 R2 for max. 4 CP 1613 A2, CP 1623, CP 1628	4	kos

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21	LIC OS Single station	6ES7658-2AA58-0YA0	SIMATIC PCS 7, SOFTWARE, OS SOFTWARE SINGLE STATION V9.0 (PO 100) SINGLE LICENSE F.1 INSTALLATION R-SW, WITHOUT SW AND DOCU. LICENSE KEY ON USB STICK, CLASS A, 5 LANGUAGES (G, E, F, I, S), EXECUTABLE UNDER WIN 7 ULTIMATE WIN 10 ENTERPRISE LTSB FURTHER INFORMATION SEE PCS 7 V9.0 README REFERENCE-HW: PCS 7 IPC BUNDLE	2	kos
22	LIC OS RT 100	6ES7658-2XA00-0XB0	SIMATIC PCS 7, SOFTWARE RUNTIME LICENSE OS (PO 100) SINGLE LICENSE F.1 INSTALLATION R-SW, WITHOUT SW AND DOCU. LICENSE KEY ON USB STICK, CLASS A, REFERENCE-HW: PCS 7 IPC BUNDLE, PCS 7 BOX BUNDLE	4	kos
23	LIC OS client	6ES7658-2CX58-0YB5	SIMATIC PCS 7, SOFTWARE, OS SOFTWARE CLIENT V9.0 FLOATING LICENSE F.1 USER R-SW, WITHOUT SW AND DOCU. LICENSE KEY ON USB STICK CLASS A, 5 LANGUAGES (G, E, F, I, S), EXECUTABLE UNDER WIN 7 ULTIMATE WIN 10 ENTERPRISE LTSB FURTHER INFORMATION SEE PCS 7 V9.0 README REFERENCE-HW: PCS 7 IPC BUNDLE	1	kos
24	LIC ES AS/OS	6ES7658-5AX58-0YA5	SIMATIC PCS 7, SOFTWARE, AS/OS ENGINEERING V9.0 FLOATING LICENSE FOR 1 USER E-SW, WITHOUT SW AND DOCU. LICENSE KEY ON USB STICK, CLASS A, 5 LANGUAGES (G, E, F, I, S), EXECUTABLE UNDER WIN 7 ULTIMATE WIN 10 ENTERPRISE LTSB SERVER 2012 R2 FURTHER INFORMATION SEE PCS 7 V9.0 README REFERENCE-HW: PCS 7 IPC BUNDLE	1	kos
25	LIC AS RT 100	6ES7653-2BA00-0XB5	SIMATIC PCS 7, SOFTWARE, RUNTIME LICENSE AS (PO 100), FLOATING LICENSE F.1 USER R-SW, WITHOUT SW AND DOCU. LICENSE KEY ON USB STICK, CLASS A, REFERENCE HW: PCS 7 IPC BUNDLE, PCS 7 BOX BUNDLE	5	kos
26	LIC IEC 104/101	6AG6003-3CF00-0AA0	SIPLUS RIC Library for SIMATIC S7-4XX consisting of - CD (Software, Documentation) - Runtime License for 1 CPU	1	kos
27	SW Modbus TCP CP RED	6AV6676-6MB30-3AX0	SIMATIC Modbus/TCP CP RED for S7-400 H systems, Single license on DVD	1	kos

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28	SW WinCC Comfort	6AV2101-0AA04-0AA5	SIMATIC WinCC Comfort V14 SP1 Engineering software in TIA Portal; Floating License; SW and documentation on DVD; License key on a USB stick; Class A; 6 languages: de,de, fr, enfr,es,it,cn; executable on Windows 7 (64 bit), Windows 8.1/10 (64 bit), WinSrv 2008 R2/2012 R2/2016 (64 bit) for configuration of SIMATIC Panels	1	kos
29	Scalance 204	6AG1204-2BB10-4AA3	SIPLUS NET SCALANCE X204-2 -40...+60 °C for medial exposure based on 6GK5204-2BB10-2AA3 . Managed IE switch, 4x 10/100 Mbit/s RJ45 ports, 2x 100 Mbit/s multimode BFOC, LED diagnostics, error signaling contact with set button, Redundant power supply, PROFINET IO device, network management, integr. redundancy manager, incl. electron. Manual on CD-ROM, C-plug optional	2	kos
30	Melco OS računalnik	6ES7660-7XG21-8BC0	SIMATIC PCS 7 INDUSTRIAL WORKSTATION IPC547G (RACK PC, 19", 4HU), Interfaces: 2x Gbit Ethernet (RJ45); 1x DVI-D; 2x Display Port V1.2 1x COM; 2x PS/2; Audio; 2x USB 3.0 on the front, 4x USB 3.0 & 4x USB 2.0 on the rear, 1x USB 2.0 internal; 7 slots: 5x PCI Express, 2x PCI; Temperature and fan monitoring, Watchdog, Card retainer; Core i7-6700 (4C/8T, 3.4(4.0) GHz, 8 MB cache); MB (chipset C236) - spare part RAID1, 1 TB (2x1 TB HDD) in removable frame, hot-swap, on front; 16 GB DDR4 SDRAM (2x 8 GB), Dual channel; Industrial Ethernet (CP1623) without PCS 7 restore DVDs, without pre-installation Windows 10 IoT Enterprise 2015 LTSB, 64 bit, MUI (en, de, fr, it, sp, ch) enclosure blue chromated, DVD+-RW (Slim), incl. 1xDP according to DVI-D cable adapter 100/240V AC industrial power supply unit; without line cable	1	kos
31	RJ 45 konektorji	6GK1901-1BB10-2AB0	Industrial Ethernet FastConnect RJ45 plug 180 2x 2, RJ45 plug-in connector (10/100 Mbit/s) with rugged metal enclosure and FC connection system, for IE FC Cable 2x 2; 180° cable outlet 1 pack = 10 units	2	kos

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32	Računalnik za COM500		<p>Procesor Intel Core i5, 6. generacija, (vsaj 3,0 GHz, 6MB predpomnilnika ali boljši)  RAM 8 GB DDR4 2400 Mhz (1 DIMM) ob vsaj dveh prostih mestih za razširitev vsaj do 64 GB  Mrežna kartica Integrirana 10/100/1000Mbit UTP  Optična enota Vsaj SATA 16x DVD +/- RW zapisovalec z možnostjo dvoslojnega zapisovanja ( Dual Layer) s pripadajočo programsko opremo za predvajanje in snemanje DVD medijev  Trdi disk Vsaj SATA SSD 256GB  Miška USB optična miška s koleščkom in 3 gumbi, dolžina kabla priložene miške najmanj 1,5m  Grafična kartica INTEGRIRANA Intel® HD grafična kartica (lahko uporablja delovni pomnilnik) z VGA in display port vmesnikom, priložen display port na DVI adapter (ali boljša)  Tipkovnica USB tipkovnica s slovenskim naborom znakov (nalepke za SLO znake na tipkovnici niso dovoljene)  Ohišje 2U Rackmount Industrial za v montažo 19" TK omaro globina 80cm  I/O porti 1 x RJ-45, 1x VGA izhod, vsaj 1x digitalni izhod (DisplayPort vmesnik oz. DVI), 1 x audio stereo izhod, vsaj 4xUSB 3.0 ter 4 USB 2.0 (ali pa vsi USB 3.0) in v poljubni kombinaciji dostopni direktno na ohišju (od tega vsaj 2 spredaj)  Razširitvena mesta 2x PCIe x16  Dodatne periferne enote 4x Etehernet RJ-45 UTP mrežna povezava 10/100/1000Mbit</p> <p>Vse komponente morajo podpirati Windows 7 32 bitni operacijski sistem</p>	2	kos
33	PCLTA kartica	1MRS119024	1x ABB PCLTA CARD GLASS: PCLTA-20 z 1MRS090702-MM (RER 107-MM); ST konektor, steklena vlakna	2	kos



Postavka	Opis	Koda	Opis	Količina	Enota
34	Licenca za COM500		Sprememba/dokup ene IEC 60870-5-104 slave licence namesto IEC 60870-5-101 za COM500 in nadgradnja celotne licence na zadnjo dobavljivo, ki mora podpirati namestitev na Windows 7 32 bitni operacijski sistem (obstoječa licenca verzija 9.2 SP1 je na USB ključku; potrebna dobava novega ključka z novo licenco).	1	kos
35	Windows 7 Pro 32 bit licenca		Windows 7 Professional 32 bit licenca	2	kos

## 8. OBRAZCI

- Obrazec št. 1: Ponudba
- Obrazec št. 2: Izjava ponudnika o izpolnjevanju pogojev
- Obrazec št. 3: Pooblastilo pooblaščenca za podpis / parafranje ponudbe
- Obrazec št. 4: Pooblastilo za pridobitev podatkov za pravne osebe
- Obrazec št. 5: Pooblastilo za pridobitev podatkov za fizične osebe
- Obrazec št. 6: Ponudbeni predračun
- Obrazec št. 7: Izjava/podatki o udeležbi fizičnih in pravnih oseb v lastništvu ponudnika
- Obrazec št. 8: Vzorec pogodbe
- Obrazec št. 9: Reference ponudnika