

TEMPLATE FOR TECHNICAL SPECIFICATIONS OF GOODS

UNICEF Uzbekistan CO

Requesting section	Education	WBS element	
Section focal point		Grant	
Date:	9/22/2026	Fund	
		FC/SO	

TECHNICAL SPECIFICATIONS			
Type of goods	Communication equipment	Perishable	No
Multiple types of goods	☒ Yes ☐ No	LPA required	No
SD catalogue or DO LTA	No		
Minimum technical requirements			
Item name	Description (technical aspects, configuration)	Q-ty requi red	Remark (OEM Product No, Model number, etc.)
LOT 1 — VISION (BLINDNESS AND LOW VISION) / ЛОТ 1 — ЗРЕНИЕ (СЛЕПОТА И СЛАБОВИДЕНИЕ)			
1. Electronic braille display / Электронный дисплей Брайля	<i>Intended use: Provides tactile braille access to computers and digital learning materials.</i> Type: portable refreshable braille display with stand-alone reader and note-taker mode. Braille cells: at least 20 refreshable 8-dot cells; panning keys and navigation pad; cursor-routing keys desirable. Keyboard: Perkins-style 8-key braille keyboard with space bar. Connectivity: USB and Bluetooth; operates as a braille terminal with common screen readers (NVDA, JAWS, VoiceOver, TalkBack) on Windows, macOS, iOS and Android without paid drivers. Stand-alone functions: reading and editing of text and BRF files from an SD card or internal memory; memory card of at least 4 GB included where a card is used. Battery: rechargeable, at least 8 hours of continuous use; charging via USB. Weight: not more than 750 g. Package: USB cable, charger, protective carrying case, quick-start guide.	2 pcs	Indicative: Orbit Reader 20; Focus 40 Blue – or equivalent.



Reference photo

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2. Braille printer (embosser) / Брайлевский принтер (эмбоссер)  Reference photo	<i>Intended use: Produces braille textbooks, worksheets and other educational materials.</i> Type: desktop double-sided (interpoint) braille embosser for text and tactile graphics. Speed: at least 100 characters per second. Braille: 6- and 8-dot; standard 2.5 mm cell with adjustable dot spacing; tactile graphics resolution at least 50 dpi. Paper: A4-format braille paper, tractor-fed continuous or cut-sheet, 120–180 g/m². Connectivity: USB and network (Ethernet and/or Wi-Fi); embossing directly from a USB memory stick; drivers for Windows 10/11. Control panel: keys labelled in braille and print, with speech feedback. Software: braille translation and formatting software (perpetual licence) supporting Russian, Uzbek (Cyrillic and Latin script) and English, importing .docx, .pdf and .txt files. Noise: acoustic hood or cabinet included, reducing operating noise to not more than 65 dB(A). Consumables: starter stock of at least 2,000 sheets of braille paper (140–160 g/m²) in the format used by the embosser. Warranty: at least 24 months.	2 pcs	Indicative: Index Basic-D / Everest-D – or equivalent. Translation software: Duxbury DBT or equivalent.
3. Mechanical braille typewriter (brailleur) / Механическая брайлевская пишущая машинка  Reference photo	<i>Intended use: Supports teaching and writing in braille.</i> Type: manual (non-electric) mechanical brailleur for 6-dot braille. Keys: six dot keys, space, backspace and line-feed keys; paper-feed knobs; adjustable margin guides; end-of-line warning bell. Capacity: at least 30 cells per line and 25 lines per page; accepts A4 and wider paper, 100–180 g/m². Embossing: uniform, clearly raised dots without tearing 140–160 g/m² paper. Construction: all-metal mechanism in a metal or impact-resistant housing; carrying handle; weight not more than 5.5 kg. Package: dust cover and at least 200 sheets of braille paper (140–160 g/m²). Standards: consistent with the WHO Assistive Product Specification (APS) for mechanical braille typewriters.	2 pcs	Indicative: Perkins Brailleur – or equivalent.

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4. Desktop electronic magnifier / Стационарный электронный видеоувеличитель  Reference photo	<i>Intended use: Magnifies printed text and images for learners with low vision.</i> Type: desktop video magnifier with integrated monitor and X-Y reading table. Screen: at least 22 in, Full HD (1920 × 1080), anti-glare, adjustable in height and tilt. Camera: Full HD, auto-focus with focus lock for writing. Magnification: continuous, from not more than 3× to at least 60×. Viewing modes: full colour, black-on-white, white-on-black and at least 5 further high-contrast colour combinations; adjustable brightness and contrast. Reading table: smooth-gliding X-Y table taking an open A4 book, with lock or brake in both axes. Lighting: integrated glare-free LED illumination that can be switched off. Controls: large, tactile, high-contrast controls. Desirable: reading line and window masks; PC input (HDMI/DVI) to switch between magnifier and computer image. Warranty: at least 24 months.	2 pcs	Indicative: Merlin HD; ClearView C – or equivalent.
5. Handheld electronic magnifier / Портативный электронный видеоувеличитель  Reference photo	<i>Intended use: Provides portable magnification for reading printed materials.</i> Type: portable hand-held video magnifier with built-in screen and rechargeable battery. Screen: colour LCD of at least 5 in. Magnification: from not more than 2.5× to at least 20×. Camera: auto-focus HD camera; freeze-frame (image capture) with zoom on the frozen image. Viewing modes: full colour plus at least 8 high-contrast colour combinations. Design: built-in LED lighting that can be switched off; fold-out reading stand or handle; tactile high-contrast buttons. Battery: at least 3 hours of continuous use; USB or mains charging. Weight: not more than 550 g. Desirable: HDMI/TV output; reading line and masks. Package: protective case, wrist strap, charger, cleaning cloth.	2 pcs	Indicative: RUBY 7 HD; Explore 5 – or equivalent.

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6. Reading machine / Читающая машина (сканирование с речевым выводом)  Reference photo	<i>Intended use: Converts printed text into speech, enabling independent access to printed materials.</i> Type: stand-alone portable scan-and-read device (OCR with text-to-speech); no computer required. Camera: high-resolution auto-focus camera capturing a full A4 page; integrated LED lighting. Recognition and speech: OCR and natural-sounding voices in Russian and English as a minimum; an A4 page read aloud within 15 seconds of capture. Controls: large tactile buttons of distinct shapes; volume and reading-speed control. Audio: built-in speakers and 3.5 mm headphone jack. Storage: saving and reopening of scanned documents (internal memory, SD card or USB). Battery: integrated rechargeable battery, at least 4 hours of continuous use. Weight: not more than 3 kg; carrying handle. Desirable: video output (HDMI) for showing enlarged text on an external screen. Warranty: at least 24 months.	2 pcs	Indicative: ClearReader+ – or equivalent.
7. Reading pen / Читающая ручка (ручка-сканер с речевым выводом)  Reference photo	<i>Intended use: Reads printed text aloud to support reading and comprehension.</i> Type: hand-held pen scanner that reads printed text aloud; self-contained, no computer or internet required. Recognition and speech: OCR and text-to-speech in Russian and English as a minimum (mandatory); printed fonts of 6.5–22 pt. Display: built-in screen showing the scanned text. Audio: built-in speaker and 3.5 mm earphone jack; earphones included. Use: suitable for left- and right-handed users. Battery: rechargeable, at least 6 hours of use; USB charging. Weight: not more than 80 g. Desirable: storage of scanned text and transfer to a computer via USB. Package: protective case, USB cable, earphones.	2 pcs	Indicative: C-Pen Reader 2 – or equivalent.
8. Optical magnifiers, set of 4 / Оптические лупы с подсветкой, набор из 4 шт.  Reference photo	<i>Intended use: Magnify printed materials for learners with low vision.</i> Type: set of hand-held illuminated (LED) optical magnifiers of graded power. Set: 4 magnifiers – approx. 3× (12 D), 5× (20 D), 7× (28 D) and 10× (38 D). Lens: aspheric, distortion-free to the edge; lightweight optical-grade plastic with scratch-resistant hard coating. Lighting: glare-free LED, colour temperature within 3,000–6,000 K; battery-powered, batteries included. Handle: ergonomic, usable in either hand. Package: protective case for each magnifier; cleaning cloth. Standards: ISO 15253 as applicable; consistent with the WHO APS for optical magnifiers.	2 set of 4	Indicative: Eschenbach Mobilux LED – or equivalent.

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9. White canes (folding) / Белые трости (складные)  Reference photo	<i>Intended use: Support orientation and independent mobility for learners with visual impairments.</i> Type: folding long white cane for orientation and mobility. Shaft: aluminium or graphite/carbon tube, outer diameter not more than 13 mm, in 4–6 sections joined by a double internal elastic cord. Finish: white reflective surface over the full length with a red reflective lower section. Handle: rubber or elastomer grip approx. 200 mm long, with wrist loop / elastic closure strap. Tip: replaceable rolling tip rotating through 360°. Lengths: assorted, 70–145 cm in 5 cm steps (children to tall adults); breakdown by length to be given with the purchase order. Weight: not more than 300 g for a 125 cm cane. Spares: 1 spare tip and 1 spare elastic cord per cane. Standards: consistent with the WHO APS for white canes; designed for at least 2 years of normal use.	2 pcs	Indicative: Ambutech folding cane – or equivalent.
LOT 2 — HEARING / ЛОТ 2 — СЛУХ			
10. Personal FM system (wireless remote- microphone system) / Персональная FM-система (беспроводная система с выносным микрофоном)  Reference photo	<i>Intended use: Transmits the speaker's voice directly to hearing aids or cochlear implants, reducing background noise.</i> Type: personal wireless remote-microphone system for classroom use. Set: 1 wearable teacher transmitter-microphone (lanyard or clip) and 1 universal neck-loop (induction) receiver with 3.5 mm headphone output; 1 pair of headphones; chargers. Transmission: digital, in the licence-free 2.4 GHz band with adaptive frequency hopping. Analogue FM systems on 72–76, 169–176 or 216 MHz are not acceptable (frequency licensing). Range: at least 15 m indoors; one transmitter able to serve several receivers at the same time. Audio: bandwidth at least 100 Hz–7 kHz; automatic gain adaptation to ambient noise; mute button; 3.5 mm audio input for multimedia. Compatibility: receiver works with any hearing aid or cochlear implant processor fitted with a telecoil, regardless of brand. Battery: rechargeable, at least 8 hours for both transmitter and receiver. Standards: CE (Radio Equipment Directive or equivalent); consistent with the WHO APS for personal remote microphone systems.	2 set	Indicative: Phonak Roger – or equivalent.

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11. Portable hearing loop / Портативная индукционная петля  Reference photo	<i>Intended use: Delivers sound directly to compatible hearing aids in consultation and training settings.</i> Type: self-contained portable (desktop) induction loop for one-to-one and small-group communication with telecoil hearing-aid users; no installation required. Design: single unit integrating microphone, amplifier, loop aerial and rechargeable battery. Performance: magnetic field strength in line with IEC 60118-4 at the listening position; effective range at least 0.6 m (1.0 m desirable); automatic gain control and noise gate. Inputs: 3.5 mm socket for an external microphone or audio source; external microphone desirable. Battery: at least 4 hours of continuous speech; usable while charging. Indicators: power, charge and signal LED. Weight: not more than 2 kg; carry handle or case. Package: mains charger and international hearing-loop (T) sign.	2 pcs	Indicative: Contacta; Geemarc – or equivalent.
12. Classroom sound system (soundfield) / Система звукоусиления для класса  Reference photo	<i>Intended use: Improves speech clarity by evenly amplifying the speaker's voice throughout the classroom.</i> Type: portable, installation-free classroom soundfield amplification system. Set: 1 loudspeaker unit (tower or array), 1 wearable teacher microphone, 1 hand-held pass-around student microphone, charging dock or cables. Coverage: even speech coverage of a classroom of at least 80 m²; output not less than 30 W peak. Wireless link: infrared or licence-free 2.4 GHz digital; operating range at least 15 m; at least 2 microphones usable at the same time. Processing: automatic digital feedback suppression; teacher-voice priority desirable. Connections: at least 2 audio inputs and Bluetooth for multimedia sound; audio output for a personal FM / remote-microphone transmitter and for recording. Microphone battery: rechargeable, at least 6 hours.	2 set	Indicative: FrontRow Juno – or equivalent.

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LOT 3 — COMMUNICATION (AAC) / ЛОТ 3 — КОММУНИКАЦИЯ (АДК)

13. Simple talking devices, set of 2 / Простые говорящие устройства (коммуникаторы с записью речи), набор из 2 шт.  Reference photos	<i>Intended use: Enable communication using recorded speech activated by picture buttons.</i> Set: (a) 1 multi-message communicator and (b) 1 single-message communicator. (a) Multi-message: at least 9 message keys on at least 5 levels (45 messages or more); total recording time at least 8 minutes; keys at least 40 × 50 mm with built-in keyguard; slot for paper picture overlays with overlay storage; volume control; record lock and level lock; carrying handle; weight not more than 800 g. (b) Single-message: activation surface at least 120 mm in diameter; activation force not more than 1.5 N; recording time at least 60 seconds; 3.5 mm input for an external switch and output for a switch-adapted toy or appliance; at least 2 interchangeable colour tops and a clear symbol holder; volume control. Both: messages re-recordable by the user in any language (Russian, Uzbek) and retained when switched off; impact-resistant wipeable housing; batteries included. Standards: CE; EN 62115 and EN 71-1/-2/-3 as applicable.	2 set of 2	Indicative: GoTalk 9+/20+; BIGmack – or equivalent.
14. Tablets for communication applications / Планшеты для коммуникационных приложений (АДК)  Reference photo	<i>Intended use: Provide speech generation through augmentative and alternative communication (AAC) applications.</i> Type: tablet computer with pre-installed AAC application and protective case. Display: at least 10 in, resolution at least 1920 × 1200. Hardware: at least 4 GB RAM and 64 GB storage; dual-band Wi-Fi (802.11ac or better); Bluetooth 5.0; front and rear cameras; battery of at least 7,000 mAh. Operating system: current iPadOS or Android 14 or later, with built-in accessibility (switch control, screen reader, single-app lock) and security updates for at least 3 years. AAC application: symbol-based grid application, pre-installed under a perpetual licence, with Russian vocabulary and Russian text-to-speech voice, editable grids, import of own photographs, recording of own voice messages (for Uzbek) and offline operation. Application to be named in the offer. Case: rugged shock-absorbing case with handle/stand and shoulder strap; tempered-glass screen protector; amplified speaker desirable. Package: mains charger and cable.	2 pcs	Indicative: iPad; Galaxy Tab – or equivalent.

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15. Eye-controlled communication system / Система коммуникации с управлением взглядом  Reference photo	<i>Intended use: Enables communication through eye movement for individuals with severe motor impairments.</i> Type: eye-gaze controlled speech-generating system, supplied as one configured working system – either (a) a dedicated device with built-in eye tracker, or (b) a Windows tablet/PC with a compatible external eye tracker. Screen: at least 13 in, Full HD touchscreen. Eye tracker: binocular tracking, usable with glasses and contact lenses and in varying indoor light; operating distance covering at least 50–80 cm; 1- to 9-point calibration with child-friendly mode; selection by dwell, blink or switch. Software: symbol- and text-based AAC software with Russian page sets, on-screen keyboard and Russian text-to-speech voice; full Windows control by gaze (mouse and keyboard emulation); eye-gaze learning and assessment activities included. Audio: built-in or supplied speakers of at least 2 × 5 W. Interfaces: at least 2 switch inputs (3.5 mm or via USB interface); at least 2 USB ports. Battery: at least 6 hours of typical use. Mounting: adjustable table stand, quick-release mounting plate and height-adjustable rolling floor stand included. Warranty: at least 24 months; on-site set-up, calibration and user training included.	2 set	Indicative: Tobii Dynavox I-16; PCEye 5 – or equivalent.
16. Picture exchange communication books / Коммуникативные книги для обмена изображениями  Reference photo	<i>Intended use: Support communication using pictures without electronic devices.</i> Type: non-electronic picture-exchange communication book (ring binder) with hook-and-loop pages and a set of picture cards. Book: rigid washable polypropylene cover, approx. 26 × 24 cm; hook-and-loop strips on the cover and on at least 4 removable inner pages; detachable sentence strip; carrying strap. Picture cards: at least 150 laminated colour symbol cards (PCS, ARASAAC or equivalent) of 40–50 mm, covering basic needs, food, toys, activities, people, feelings and school items, plus at least 20 blank cards for local photographs. Captions: Russian and Uzbek (Latin script) beneath each image. Materials: card of at least 300 g/m² with double-sided lamination of at least 80 microns, or PVC; rounded corners; hook-and-loop dot on every card; wipeable with disinfectant. Standards: EN 71-3 (inks); consistent with the WHO APS for communication boards and books.	2 set	Indicative: PECS communication book (Pyramid) – or equivalent.

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LOT 4 — MOTOR ACCESS / ЛОТ 4 — ДОСТУП ПРИ ДВИГАТЕЛЬНЫХ НАРУШЕНИЯХ

17. Switch access kit / Набор адаптивных кнопок с компьютерным интерфейсом  Reference photos	<i>Intended use: Enables access to computers and communication devices using adapted switches.</i> Kit: (a) 1 large switch, (b) 1 small switch and (c) 1 USB computer switch interface. (a) Large switch: activation surface at least 120 mm in diameter; activation force not more than 2.0 N. (b) Small switch: activation surface 60–70 mm in diameter; activation force not more than 1.0 N. Both switches: tactile and audible click feedback; 3.5 mm mono plug with cable of at least 1.2 m; at least 3 interchangeable colour tops; impact-resistant wipeable housing; base with mounting plate or threaded inserts. (c) Interface: at least 4 switch inputs (3.5 mm); plug-and-play without drivers on Windows, macOS, ChromeOS and Android; preset functions (space, enter, arrow keys, left and right mouse click) and user-programmable keystrokes; settings retained in the device. Standards: CE; ISO 21856 as applicable.	2 kit	Indicative: AbleNet Big Red, Jelly Bean; Hitch 2 – or equivalent.
18. Alternative computer mice, set of 2 / Набор альтернативных компьютерных мышей (трекбол и джойстик), 2 шт.  Reference photos	<i>Intended use: Provides alternative pointing devices for users with limited hand control.</i> Set: (a) 1 large trackball and (b) 1 joystick mouse. (a) Trackball: ball at least 50 mm in diameter; at least 2 buttons plus scroll ring or wheel; ambidextrous; detachable wrist rest; USB, wired or with wireless receiver. (b) Joystick: cursor control by joystick with at least 3 interchangeable handles (knob, T-bar, soft ball); separate buttons for left click, right click, double click and drag lock; at least 3 cursor-speed settings; configurable for left- or right-hand use; at least 2 × 3.5 mm sockets for external switches; axis-lock or anti-tremor function; recessed colour-coded buttons; integrated palm rest. Both: USB plug-and-play without drivers on Windows and macOS; stable non-slip base.	2 set of 2	Indicative: Kensington trackball; n- ABLER joystick – or equivalent.

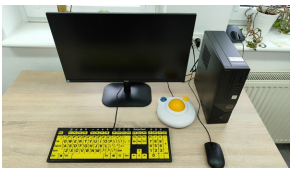
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19. Alternative keyboards, set of 2 / Набор альтернативных клавиатур, 2 шт.  Reference photos	<i>Intended use: Offers adapted keyboards to support different physical access needs.</i> Set: (a) 1 large-key keyboard and (b) 1 colour-coded large-print keyboard. (a) Large-key keyboard: key tops at least 24 × 24 mm; high-contrast legends at least 12 mm high; full character set; single character per key press (no run-on) or adjustable repeat; clear keyguard included. (b) Colour-coded keyboard: key tops at least 19 × 19 mm; keys colour-coded by group (vowels, consonants, numbers, punctuation, function); enlarged legends; key-repeat on/off switch; spill-resistant housing; durable mechanical key switches. Legends: Latin (QWERTY) and Cyrillic (ЙЦУКЕН) on both keyboards – printed on the keys or supplied as durable high-contrast overlay labels fitted by the supplier. Both: USB plug-and-play on Windows and macOS.	2 set of 2	Indicative: BigKeys LX; Clevy – or equivalent.
20. Head and mouth pointer set / Набор головных и ротовых указок   Reference photos	<i>Intended use: Enables access to computers and touchscreens without hand use.</i> Set: (a) 1 head pointer and (b) 1 mouth stick. (a) Head pointer: padded headband adjustable from child to adult size; lightweight rod adjustable in length (at least 200–350 mm) and angle; interchangeable rubber tip (keyboards) and conductive stylus tip (capacitive touchscreens); weight not more than 250 g. (b) Mouth stick: lightweight aluminium or carbon rod at least 400 mm long; soft replaceable mouthpiece; rubber tip and conductive stylus tip; weight not more than 60 g. Hygiene: all parts in contact with skin or mouth latex-free, biocompatible (ISO 10993 as applicable), washable and disinfectable; at least 5 spare mouthpieces and 2 spare headband pads per set. Desirable: docking stand for the mouth stick.	2 set	Indicative: head pointer with stylus; mouth stick – or equivalent.
LOT 5 — SENSORY REGULATION AND FINE MOTOR / ЛОТ 5 — СЕНСОРНАЯ РЕГУЛЯЦИЯ И МЕЛКАЯ МОТОРИКА			
21. Sensory calming set / Набор для сенсорной регуляции  Reference photos	<i>Intended use: Supports attention, emotional regulation and participation through sensory tools.</i> Set: (a) 1 pair of children's ear defenders and (b) 1 visual timer. (a) Ear defenders: passive earmuffs sized for children, with adjustable padded headband; attenuation SNR at least 25 dB; weight not more than 200 g; soft replaceable ear cushions; low-profile cups in a bright colour; EN 352-1, CE. (b) Visual timer: 60-minute analogue timer with a coloured disc that shrinks as time elapses; face at least 85 × 85 mm; silent operation (no ticking); end-of-time alert with on/off; protective cover or case; no small detachable parts; battery included.	2 set	Indicative: Peltor Kids; Time Timer – or equivalent.

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22. Handwriting and fine motor kit / Набор для письма и мелкой моторики  Reference photos	<i>Intended use: Supports handwriting, grasp and classroom participation.</i> Kit: (a) 1 adjustable slant board and (b) 20 ergonomic pencil grips. (a) Slant board: desktop sloping board with working surface of at least 400 × 350 mm; angle adjustable from 0 to 45 degrees in at least 4 fixed positions with a secure stop; retaining lip on the lower edge; clip or magnetic strip to hold paper; non-slip base pads; birch plywood/MDF with non-toxic finish or impact-resistant plastic; matt non-glare surface; rounded edges, no finger pinch points. (b) Pencil grips: moulded finger positions guiding a tripod grasp; usable by right- and left-handed children; bore for pencils and pens of 7–9 mm; soft thermoplastic elastomer or silicone, Shore A 40–60; at least 3 different profiles, of which at least 20 per cent in a larger, thicker profile; at least 4 colours. Standards: EN 71-1/-3, REACH; free of latex, BPA and phthalates.	2 kit	Indicative: slant board; pencil grips – or equivalent.
LOT 6 — ASSESSMENT AND DEMONSTRATION / ЛОТ 6 — ОЦЕНКА И ДЕМОНСТРАЦИЯ			
23. Demonstration workstations (PCs) / Демонстрационные рабочие станции (ПК)  Reference photo	<i>Intended use: Demonstrate assistive technology solutions for assessment, training and user trials.</i> Each workstation comprises the following. Computer: desktop or all-in-one PC; current-generation Intel Core i5 / AMD Ryzen 5 class processor or better (at least 6 cores); 16 GB RAM; 512 GB NVMe SSD; Windows 11 Pro 64-bit with Russian and English language packs. Ports and connectivity: at least 6 USB ports (including at least 1 USB-C) so that several AT peripherals can be connected at once; HDMI or DisplayPort; Gigabit Ethernet; Wi-Fi 6; Bluetooth 5.0 or later. Monitor: at least 23.8 in IPS, Full HD, anti-glare, on a height-, tilt- and swivel-adjustable stand. Audio and video: stereo speakers; over-ear USB headset with microphone; Full HD webcam. Input: high-contrast large-print keyboard (e.g. black on yellow) with Latin and Cyrillic legends; optical mouse. AT software, pre-installed and licensed: screen reader with Russian speech and braille-display support; screen magnifier with colour enhancement and speech. Power protection: line-interactive UPS of at least 650 VA and surge-protected power strip with at least 5 sockets. Integration: the supplier shall connect, configure and test the AT peripherals supplied under items 1, 15 and 17–19 on the workstations at installation. Warranty: at least 36 months on PC and monitor.	2 sets	Annex 1: “Standard PCs + items above”.

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LOGISTICAL AND POST-DELIVERY REQUIREMENTS			
Delivery (in-country) ¹	Partner	Packaging requirements, please specify	
After sales service required?	Yes, optional		

REQUESTING SECTION CLEARANCE			
Authorizing Officer (Budget Owner)		Activity Manager (Programme Officer)	
Signature		Signature	

¹ For in-country deliveries (multiple) required, please attach distribution list