

Příloha č. 01 – Specifikace předmětu plnění												
Položka	Minimální požadované specifikace	Poč et ks	Výrobce a typ	Specifikace zboží	Cena za 1 jednotku bez DPH	Celková cena za položku bez DPH	Maximální celková cena položky bez DPH	Žadatel o položku	Příkazce operace	Zakázka	Pracoviš tě	Místo doručení; kontaktní osoba
SW- MIKROSPEKTROSKO PICKÉ KORELACE - výukový systém	Programové vybavení pro výuku SW korelací mikrospektroskopických metod měření materiálových a biomedicínských vzorků. Adaptace na aktuální verze průmyslových standardů JIS, ASME, EUR . 3D obrazová rekonstrukce s využitím detektoru BSE se 4 detekčními kvadranty. Odměřování výšky, objemu. Měření parametru drsnosti (povrch, profil). 3D kompletování větších obrazů. Kolokalizované zpracování z dalších mikroskopů - světelných, ramanských SPM a AFM atd. 3D rekonstrukce obrazu ze dvou stereoskopických SEM obrazů. Analýza částic, analýzy FFT. Software pro energiově disperzní spektrální analýzu vzorků. Zobrazení spektra expandovatelné stupnice svisle i vodorovně, display KLM markeru. Kvalitativní a kvantitativní analýza. Záznam kompletního spektra pro každý pixel mapy. Export spekter ve formátu BMP, TIFF, JPEG, EMSA, text. Datové zprávy export do MS WORD. Licence: Cena obsahuje hlavní licenci na základní procesní počítač, nebo pracovní stanici SEM a další 3 licence na off-line zpracování dat na dalších počítačích v síti (dedikované na off.line zpracování).	1	Hitachi map 3D výrobce Hitachi High- Technologi es	Programové vybavení pro výuku korelací mikroskopických a mikrospektrometrických metod: Hitachi map 3D se skládá ze a) základní struktury 3D-VIEW pro snímání třírozměrných dat a 3D rekonstrukci obrazu z jednotlivých 4 kvadrantů detektoru BSE (zpětně odražených elektronů). Obrazy jsou ve formátu 640x480 nebo 1280x960 pixel. Rychlost rastrování je 10 až 320 sec, automatické nastavení jasu. b) funkce Hitachi map 3D jsou děleny na funkce vstupu (automatický výběr a načtení dat ze SEM, včetně podmínek nastavení SEM), dále pak funkce měření (přesnost stanovení hloubky +20% nebo méně – podle kalibrace a druhu vzorku a režimu pozorování, detekovatelný rozsah úhlů + 50° a méně), na funkce odměřování rozměrů (odpovídá normám ISO, ASME, EUR a GB, stanovuje se např. vzdálenost X a Y, délka, úhel, plocha povrchu či řezu, výška, objem, stanovení profilu drsnosti a měření drsnosti povrchu, sestava velkých obrazových celků z jednotlivých obrazů, editace barevnosti, nastavení základní čáry – přímka či křivka atd.) , funkce 3-rozměrného zobrazení (s rotací a zoomem, animace záznamu) a nakonec funkce výstupu informací (3D-obraz či video, ve formátu SUR, 3MF, STL, WRL, TXT, X3D/WMV, AVI).. c) specializovaný software pro detekci zrn a částic a FFT analýzu. d) specializovaný software Colocalization Module pro kolokalizaci obrazů z různých druhů mikroskopů (světelných, AFM, konfokálních atd.) a profilometrů s možností překládání mikroskopických a spektroskopických obrazů na 3D topografii vzorku. 3D rekonstrukce obrazu ze 2 stereoskopických SEM obrazů. AztecOne firmy Oxford Instruments Software pro EDS (energiově disperzní spektrometr) analýzu prvkového složení vzorku. Spektrální graf má expandovatelné X-Y stupnice, software umožňuje spektrální RTG mapování povrchu, analýzu v bodě i podél zvolené linie, znázornění KLM markeru. Pomocí unikátní Tru-Q® kombinace kvantitativních algoritmů a funkce automatické identifikace (AutoID) a bezstandardové analýzy lze dosáhnout vyšší úrovně přesnosti stanovení, než u jiných typů EDs software. Obsahuje funkce pro snímání korigovaných a překrývajících se RTG map povrchu a skeny podél čáry v reálném čase (TrueMap). Obraz se zaznamenává s rozlišením 512, 1024 a 2048 bodů, včetně sekvenčního snímání duálních obrazů a průměrování rámce (Kalmanova metoda). Rychlost skenování od 1 do 400 μs. Záznam kompletního EDS spektra pro každý bod mapy. Export spekter je možný ve formátech BMP, TIFF, JPEG, EMSA, a TXT. Datové soubory jsou exportovány ve formátu MS Word ®. Funkce MiniQuant pro numerické stanovení % složení ve váhových %, atomických % nebo % oxidů. Licence na uvedené software: 1 x hlavní licence na základní procesní počítač nebo pracovní stanici SEM (doporučena sestava 4 jádrový procesor, 8 GB RAM, HDD s volným prostorem min. 800 MB, grafická deska : AMD nebo NVIDIA 256 MB, rozlišení obrazu na monitoru 1600 x 1024 v tisících barev, LCD FHD monitor min. 24", OS Windows® 10 Professional EN), 3 x licence na off-line zpracování dat na jiných PC v místní síti	525 000,00 Kč	525 000,00 Kč	526 000,00 Kč					
			AztecOne výrobce Oxford Instrumen ts									
								Celková nabídková cena za veřejnou zakázku bez DPH		525 000,00 Kč		



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