

**Sports Authority of India  
(ES Division)**

File No. 01-20002/6/2024-HO-ES Division

30.05.2024

**Procurement of Ultimaker S5 Pro Bundle – 3D Printer For High Performance Archery Centre, NCOE Sonapat through Proprietary Article Certificate (PAC) - Inviting Comments thereon.**

Sports Authority of India, New Delhi is in the process of finalizing the Procurement of following item For High Performance Archery Centre, NCOE Sonapat on Proprietary Basis.

S. No	Description	Details
1	IFB Details	<b>01-06/2/2024-HO - TOPS - HPD-Division/3D Printer</b>
2	Item Name & Quantity	3D Printer & 01 Unit
3	Mode of Purchase	PAC
4	Original Equipment Manufacturer	M/s Ultimaker B V, Netherlands
5	Authorized Agent	M/s Imaginarium Solutions (I) Pvt. Ltd., Mumbai
6	Specifications	<p>Fabrication Technology Fused Filament Fabrication (FFF)  Fabrication head Dual extrusion head  Nozzle mechanism Auto nozzle lifting system  Nozzle change mechanism Swappable feeder nozzle of different diameters.  Feeder Nozzle Diameter Must support the following diameters - 0.25mm, 0.4mm, 0.6mm,0.8 mm  Feeder Nozzle Temperature Up to 270 degrees Celsius  Build Volume XYZ: 330 X 240 X 300 mm  Filament diameter 2.85 mm  Layer resolution 20 microns to 600 microns  XYZ resolution 7, 7, 3 micron or better Nozzle heat up time &lt; 2 minutes.  Print speed 24mm<sup>2</sup>/sec. or better  Build Platform Heated Glass/ Aluminum Build Plate  Build Platform temperature Minimum 135 °C  Build Platform levelling Automatic active levelling  Build plate heat up time &lt;4min from 20°C to 60 °C  Operating Ambient Temperature 15- 32 °C , 10- 90% RH non-condensing  Supported Materials Optimized for PLA, Tough PLA, ABS, Nylon, CPE, CPE+, PP, PC, TPU 95A, PVA, Composite materials, metal filament. Should support 3rd Party Materials.  Accessories along with the printer:  A) Air manager (qty.1No.) For filtering ultrafine particles during fabrication (protection of the working environment) Air manager must be compatible with the 3d fabricator quoted.  Filter technology: EPA filter (up to 95% efficiency).</p>

		<p>Air extraction by low noise brushless motor based fan.  Air manager must have smart monitoring of the filters life used.  Auto detection of filaments material and adjust the air flow as required  Connected with UMB connection method Air refresh rate 1-50m3/h  Filter replacement: 1500 print hours or more Connected with UMB connection method Size 490*503*350mm or more  B) Material Station (qty. 1 No.) Product should be compatible with integrated material humidity control station of 6 spool capacity with automatic material switching feature and automatic material recognition  Material Datasheets  All material datasheets should be provided.  Proven material profiles: Should have predefined profile settings for more than 45 materials such as Ensinger, infinite, BASF, Arkema, DSM, Lehvoss, Jabil, Igus, Owens Corning, Kimya, Clariant, Polymaker, Solvay Solef, Mitsubishi &amp; Lubrizol.  Compatibility with metal 3d printing: Must be upgradable to Metal 3dPrinting solution  Material Recognition: Auto recognition with NFC scanner  Connectivity: WiFi, LAN, USB port (accessible through LCD screen)  Display: 4.7'' (11.9 cm) color touchscreen  Supported 3D CAD File Types: STL, OBJ, X3D, 3MF, BMP, JPG, PNG  Printable format: G, GCODE, UPF  Monitoring (Live): via integrated vision sensor with software support (view from desktop or app)  Software  •Print preparation and Print management software to be provided with printer.  •Should include remote printing software.  Software Plugin integration  •SolidWorks  •Siemens NX  •Autodesk Inventor  Certification  •Product should be BIS, WPC, CE, EU, ROHS Certified. Certificates to be provided.  •ISO 9001: The bidder or the OEM of the offered Product must have ISO 9001 certification.</p>
7	<p><b>Total financial implication inclusive of taxes per unit with 2 years Warranty and 3 years CAMC</b></p>	<p><b>Rs. 16,09,520/-</b>   (Cost of Equipment with 02 Year Warranty : Rs. 13,75,880/-  Cost of 03 year CAMC: Rs. 2,33,640/-)</p>

The above details are being uploaded for open information to submit objections, comments, if any, from any manufacturer regarding proprietary nature of the equipment/item within 15 days of issue of this document giving the above reference.

The comments should be received at office of Deputy Director (ES), Sports Authority of India, Room No. 115, SAI – HQ, Jawaharlal Nehru Stadium Complex, Gate No.-10, Lodhi Road, New Delhi – 110003 (India) or at [es-sai@gov.in](mailto:es-sai@gov.in) or [esdivisionsai@yahoo.in](mailto:esdivisionsai@yahoo.in) on or before 13/06/2024, 12:00 p.m., failing which it will be presumed that no vendor(s) is having any comment(s) to offer and the case will be decided on merits.

**-S/d-**  
**Deputy Director**  
**Equipment Support Division**