Corrigendum

The following amendments have been made to the tender notice published on **29th July 2024** having no **TS544289E with opening date on 12th August 20204.**:

- The opening of Technical Bids is now scheduled for **15th August (Thursday) at 11:30 AM** (previously set for 12th August at 11:30 AM). Bidders or their representatives who wish to attend the opening ceremony are welcome.
- Section 8 of the bid has been expanded with additional reference components included. The revised section should be read as follows.

All other terms and conditions will remain the same. The updated document can be downloaded from **http://isb.nu.edu.pk/Media/Procurement**

8	Technical Specifications	

Item no 1: GPU Workstation including LED with the following minimum specifications:

S.No	Components	Genesys Lab's Specifications
1	Processor	i9, 14th Gen Intel or AMD Ryzen 7 + Water cooling For water cooling following examples can be used as reference ● Asus ProArt LC 420 AIO 420mm Liquid CPU Cooler ● Asus Rog Ryuo III 360 ARGB AIO Liquid CPU Cooler ● Gigabyte Aorus Waterforce X II 360 ICE LCD ARGB AIO 360mm Liquid CPU Cooler ● Equivalent or Higher
2	Motherboard	Z-790 or x670E Motherboard with support for 2 GPUs, examples are: **Intel:** ● ASUS ROG Maximus Z790 Dark Hero (WiFi 7) LGA 1700(14th,13th,12th Gen) DDR5 or ● MSI MEG Z790 ACE LGA 1700 Intel Z790 SATA 6Gb/s DDR5 Extended ATX Motherboard or ● MSI MEG Z790 GODLIKE **AMD:** ● MSI MEG X670E GODLIKE ● ASUS ROG Crosshair X670 Hero

S.No	Components	Genesys Lab's Specifications	
		Equivalent or Higher	
3	RAM	Corsair/G.Skill 128GB DDR5 6000MT/s Desktop Memory or Equivalent or Higher	
4	Graphics Card	2 x Nvidia 4090 based GPU with excellent heat sinks. Examples are: ● ASUS ROG Strix GeForce RTX 4090 24GB ● MSI GeForce RTX 4090 SUPRIM X ● Gigabyte AORUS GeForce RTX 4090 MASTER Equivalent or Higher	
5	HDD	4 TB SATA or Equivalent or Higher	
6	SSD		1 TB SAMSUNG NVME or Equivalent or Higher
7	Power supply	1600-watt PSU, 80 PLUS Titanium Certified (should be compatible with the rest of the build) equivalent or higher	
8	Case	Full tower, high airflow design, multiple fan support. for reference use: ● Corsair 1000D ● Lian Li PC-O11 Dynamic XL ROG Certified Equivalent or Higher	
9	Display	LED 32 inch (Samsung panel) or equivalent or higher	
10	Keyboard and Mouse	Wireless	
11	Warranty	● 1 Year Comprehensive Warranty at site, all the items should be new and with verifiable serial numbers/tags (where applicable). ● Furthermore all the components will be assembled brought in package at the site and would be assembled there.	

Item No 2: Laptop with the following minimum specifications:

S.No	Components	Genesys Lab's Specifications
1	Laptop **(Quantity: 1)**	● 14.5-inch 3K (2,944 x 1,840) 90 Hz 16:10 OLED touch display, Snapdragon X Elite, RAM Up to 16GB, 1TB SSD or ● Apple's M2 Pro chip, 14 inches Liquid Retina XDR display, 1tb ssd, 16GB ram,

		• or Equivalent or Higher

Item No 3:Raspberry Pi, CAM with IMU having following minimum specifications:

S.No	Components	Genesys Lab's Specifications
1	Raspberry PI 5 camera starter kit **(Quantity: 1)**	**Raspberry Pi 5 Model B** **MicroSD Card**: 32GB capacity (specific brand/model can vary) **Camera Module**: Raspberry Pi Camera Module (specific version like v2 or HQ) **Inertial Measurement Unit (IMU)**: MPU-6050 or similar sensor module **Power Supply**: Compatible power adapter for Raspberry Pi 5 **HDMI Cable**: Standard HDMI cable **Protective Case**: Compatible case for Raspberry Pi 5 **Assorted Cables**: Includes USB cables and GPIO cables or equivalent or better

Item No 4: LiDAR based setup having following minimum specifications:

S.No	Components	Genesys Lab's Specifications
1	LiDar Kit **(Quantity: 1)**	Long-Distance LiDAR Module with 180 Meter range, Arduino Nano, Max capacity SD Card and power supply, or Equivalent or better