

# WEBEL TECHNOLOGY LIMITED

## CORRIGENDUM – I

### TENDER NO. WTL/BGC/GIS LAB/24-25/029 DATED 20.01.2025

Sl. No.	Section No.	Page / Clause No.	Clause Description	Clarification / Revised clause
1	SECTION-A	Page No. 4, Sl. No.-3 (a)	Bidders to include confirmation (MAF) from the respective OEMs for the products/warranty services/Subscription proposed (if required) by them for the following: a) All the network equipment, UPS, CAT-6 Cable, Network rack, product specific compliance information has been certified by OEM.	Bidders to include confirmation (MAF) from the respective OEMs for the products/warranty services/Subscription proposed (if required) by them for the following: a) UPS, CAT-6 Cable, I/O Box. Patch Cord, Network rack, AIO desktop computer, Jack Panel product specific compliance information has been certified by OEM.
2	SECTION-B	Page No. 7, Sl. No.-7	Manufacturer's tender Specific authorization for AIO Desk top Computers, UPS System (two type), CAT-6 Cable, I/O Box, Patch Cords Network Rack, Jack panel and Network switch must be submitted as per format enclosed (Section-M).	Manufacturer's tender Specific authorization for AIO Desktop Computers, UPS System (two type), CAT-6 Cable, I/O Box, Patch Cords Network Rack and Jack panel must be submitted as per format enclosed (Section-M)
3	SECTION-I	Page No. 30, Sl. No. 6	Minimum Specification of 19" 6 U Rack 19" 9U wall mounting rack with Cantilever tray, 6 socket 5/15 Amp Power Strip, Cooling Fan & accessories input 6 socket 5/15 Amp power strip & earthing kit. All equipment"s housed properly, air circulation & properly locking system with key.	Minimum Specification of 19" 6 U Rack 19" 6U wall mounting rack with Cantilever tray, 6 socket 5/15 Amp Power Strip, Cooling Fan & accessories input 6 socket 5/15 Amp power strip & earthing kit. All equipment"s housed properly, air circulation & properly locking system with key.
4	SECTION-I	Revised SECTION – I is enclosed		

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## SECTION - I

### TECHNICAL SPECIFICATION WITH COMPLIANCE STATEMENT

(Tender No. WTL/BGC/GIS lab/24-25/029, dated 20.01.2025)

1. Bidder should submit all relevant data sheet/brochure of the quoted items and should also available in respective OEM's official website.
2. Bidder should indicate items mentioned in the OEM data sheet / brochure by marketing the serial no. as mentioned in minimum specification in the RFP.
3. Bidder should quote make, model and part no of the quoted item.

#### 1. Minimum Specification of AIO Desktop Computers for 3 years on-site comprehensive warranty

Qty.	20 Nos.
Make	
Model	
Part No.	

Minimum Specification		Specification (Quoted / Applicable -by the bidder)	Complied (Yes / No)
Processor	Intel core i7-13335U processor (13 <sup>th</sup> Generation) Up to 3.7 GHz E-core 5.0 P-Core max turbo frequency 15 MB L3 cache, 10 Cores, 12 thread		
RAM	16 GB DDR5		
SSD	512 GB		
LAN Network	10 / 100 / 1000 Gigabit LAN Ethernet Controller		
WiFi Network	WiFi 6 & Bluetooth 5.3 Combo		
Graphics Card	Integrated Intel Iris X Graphics		
Display	23.8-inch diagonal widescreen Full HD anti-glare display, Integrated 5MP (pixel size: C331.12um x 1.12 um) pull-up tiltable Webcam & Microphone		
Speakers	Integrated HD & Stereo Speakers		
Keyboard and Mouse	Keyboard & Mouse with same OEM		
Operating System	Ubuntu / Linux		
Warranty	On-site comprehensive warranty		

#### 2. Minimum Specification of Anti-Virus (10 User for 3 years)

Qty	2 nos (10 users licenses)
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable -by the bidder)	Complied (Yes / No)
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Antivirus for AIO Desktop Computers		
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### 3. Minimum specification of Line Interactive UPS system with 15-20 minutes battery backup read as:

**Specification for 600 VA / 650 / 750 VA line interactive UPS (108VAH) with 15-20 minutes Battery Backup on full load**

Qty.	20 Nos.
Make	
Model	
Part No.	

Minimum Specification		Specification (Quoted / Applicable - By the Bidder)	Complied (Yes / No)
Specification	Description		
Capacity	VA/W		
INPUT	Voltage		
	Voltage Range		
	Frequency Range		
OUTPUT	AC Voltage Regulation (Batt. Mode)		
	Frequency Range (Batt. Mode)		
	Transfer Time		
	Waveform (Batt. Mode)		
	Overload		
BATTERY	Battery Type & Number		
	Typical Recharge Time		
TRANSFER TIME	Minimum line break for transfer to battery		
INDICATORS	AC Mode		
	Battery Mode		
	Fault		
ALARMS	Battery Mode, Low Battery, Overload, Battery replacement, fault		
PROTECTION	Full Protection		
PHYSICAL	Dimension, D X W X H (mm)		
	Net Weight (kgs)		
	Material		
ENVIRONMENT	Operating Environment		
	Storage Temp		
	Humidity		
	Noise Level		
Test Reports	BIS registration		
	NABL Approved government lab test report.		
Warranty	UPS 3 years onsite comprehensive, battery 3 years onsite comprehensive		

### 4. Minimum Specification of 1KVA online UPS system with battery backup 30 min

Qty	1 no.
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Make	
Model	
Part No	

Minimum Specification		Specification (Quoted / Applicable - By the Bidder)	Complied (Yes / No)
Specification	Description		
Capacity	VA/W		
INPUT	Input Power factor		
	Voltage Range		
	Frequency Range		
OUTPUT	Load Power Factor		
	Frequency Range		
	Power Rating		
	Waveform		
BATTERY	Total Harmonic Distortion(THD)		
	Battery Type & Number		
	Charging Method		
INDICATORS	Back up time		
	AC Mode		
	Battery Mode		
ALARMS	Fault		
	Battery Mode, Low Battery, Overload, Battery replacement, fault		
PROTECTION	Enclosure Protection Grade		
PHYSICAL	Dimension, D X W X H (mm)		
	Net Weight (kgs)		
	Material		
ENVIRONMENT	Operating Environment		
	Storage Temp		
	Humidity		
	Noise Level		
Test reports	CE, ROHS		
	BIS registration		
	NABL Approved government lab test report.		
Warranty	UPS 3 years onsite comprehensive, battery 3 years onsite comprehensive		

### 5. Minimum Specification of CAT 6 UTP Cable

Qty.: 610 Mtr..
Make:

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Part No	Specification (Quoted / Applicable -by the bidder)	Complied (Yes / No)
<b>Minimum Specification</b>		
Unshielded Twisted Pair, Category 6, ANSI / TIA568C.2&ISO/IEC11801 Class E or better		
23 AWG Solid bare copper		
Cross-member (+) Separator		
Performance spec minimum 500 MHz shall be certified by Intertek for 4 connector channel compliance as per ANSI/TIA 568-C.2 or latest for CAT-6. (Third party certificate should be provided along with the bid.)		
ROHS Compliant		
All Copper components must be from same OEM.		
The 4 pair Unshielded Twisted Pair cable shall be UL Listed, ETL verified		
Construction: 4 twisted pairs separated by internal X shaped, 4 channel, full separator. Half shall not be accepted.		
Insulation: High density polyethylene		
Pairing: Two insulated conductor twisted together		
No. of Pair: 4 pairs		
Color of sheath: LSZH GREY- Single sheath, LSZH Sheath with IEC standard 3 <sup>rd</sup> party certification / Reports.		
Rip Cord should be available		
Sequential meter marking should be available		
Temperature Rating: (- 20 to +60 C)		
Packing: 305 Mtrs.		
OEM should have Inventory of Green House Gas Emission verification certificate in accordance with ISO 14064-1: 2006 or equivalent. Certificate must be submitted along with the bid otherwise it may cause for rejection of bid.		
Low Frequency Electrical Parameter		
Conductor Resistance: ≤9.38 OHMS or better / 100 MTR or better.		
Resistance Unbalance: 5% Max		
Mutual Capacitance: < 5.6 nF/100 mtrs		
Capacitance Unbalance: 330pF/100M		
Delay Skew: < 45ns		
OEM should have valid ISO 9001, ISO 14001 & ISO 45001:2018 certified for design and development of LAN and WAN products, all the relevant certificates must be submitted along with the bid.		
OEM should have Average Annual Financial Turnover not less than 500 Crores for their business in India for each of the last three financial years for data networking products.		

### 6. Minimum Specification of 19" 6 U Rack

Qty	1 Nos
Make	
Model	
Part No	

Minimum Specification	Specification (Quoted / Applicable -	Complied (Yes / No)

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	by the bidder)	
19" 6U wall mounting rack with Cantilever tray, 6 socket 5/15 Amp Power Strip, Cooling Fan & accessories input 6 socket 5/15 Amp power strip & earthing kit. All equipment's housed properly, air circulation & properly locking system with key.		

### 7. Minimum Specification of 24 Port CAT-6 Patch Panel / jack Panel Loaded

Qty	1 No.
Make	
Model	
Part No	

Sl. No.	Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
1	24-port, 1U, Unshielded Twisted Pair, Category 6, ANSI/ TIA 568-C.2 and ISO/IEC 11801		
2	Port identification numbers on the front of the panel		
3	IDC: Suitable for 26 AWG stranded and solid wire compatible with both 110 & Krone punch down tools.		
4	Integrated cable management for cable entry on each port.		
	<b>Jack Connector Specification:</b>		
5	Plastic Housing: PBT + Glass Fiber, UL94V-0 rated		
6	Contact Material: Copper Alloy		
7	Contact Plating: 50µ" Gold plated on plug contact area		
8	Plug Retention Force: 15 lb.		
	<b>IDC Connector Specification:</b>		
9	Plastic Housing: Polycarbonate, UL94V-0 rated or equivalent		
10	Contact Material: Copper Alloy		
11	Wire Accommodation: 26 AWG solid		
12	<b>Termination Pattern:</b> T568 A and B;		
13	Brand and company together presence in India should be for last 10 years.		
14	Manufacturing: Shall have ISO9001:2015 &14001 certified, ISO 45001 manufacturing facility in India.		
16	ROHS / ELV Compliant		
17	Allow for a minimum of 200 re-terminations without signal degradation below standards compliance limit.		

### 8. Minimum Specification of CAT-6 (2mtr.) Patch Cord

Qty	21 Nos.
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Make	
Model	
Part No	

Sl. No.	Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
1	Category 6 UTP Patch Cord – 2mtr		
2	The Patch Cord shall at a minimum comply with proposed ANSI / TIA / EIA-568-C.2-1 & ISO/IEC 11801 Commercial Building Cabling Standards Transmission Performance Specifications for 4 pair 100W Category 6 Cabling.		
3	Conductor size: 24 AWG, stranded copper conductors 100 Ohm		
4	Factory fitted Strain relief boots on either side , Cable OD : 6 mm		
5	Contact blade: Copper Alloy		
6	Contact plating: 50μ” Gold		
7	OEM should be ISO9001 and ISO14001 certified for design, ISO 45001 development for LAN & WAN products.		
8	Brand and company together presence in India should be for last 10 years.		
9	Factory Crimped Patch Cord with Factory Molded Boot		
10	OEM should have Inventory of Green House Gas Emission verification certificate in accordance with ISO 14064-1: 2006. Certificate must be submitted along with the bid otherwise it may cause for rejection of bid.		
11	OEM should have Average Annual Financial Turnover not less than 500 Crores for their business in India for each of the last three financial years for data networking products.		

### 9. Minimum Specification of CAT-6 (1mtr.) Patch Cord

Qty	21 Nos.
Make	
Model	
Part No	

Sl. No.	Minimum Specification	Specification (Quoted / Applicable – by the bidder)	Complied (Yes / No)
1.	Category 6 UTP Patch Cord – 1mtr		
2	The Patch Cord shall at a minimum comply with proposed ANSI / TIA / EIA- 568-C.2-1 & ISO/IEC 11801 Commercial Building Cabling Standards Transmission Performance Specifications for 4 pair 100W		

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	Category 6 Cabling.		
3	Conductor size: 24 AWG, stranded copper conductors 100 Ohm		
4	Factory fitted Strain relief boots on either side, Cable OD: 6 mm		
5	Contact blade: Copper Alloy		
6	Contact plating: 50µ" Gold		
7	OEM should be ISO9001 and ISO14001 certified for design, ISO 45001 development for LAN & WAN products.		
8	Brand and company together presence in India should be for last 10 years.		
9	Factory Crimped Patch Cord with Factory Molded Boot		
10	OEM should have Inventory of Green House Gas Emission verification certificate in accordance with ISO 14064-1: 2006. Certificate must be submitted along with the bid otherwise it may cause for rejection of bid.		
11	OEM should have Average Annual Financial Turnover not less than 500 Crores for their business in India for each of the last three financial years for data networking products.		

### 10. Minimum Specification of CAT-6 Single I/O with backbox, Face plate

Qty	21 Nos.
Make	
Model	
Part No	

Sl. No.	Minimum Specification	Specification (Quoted / Applicable - by the bidder)	Complied (Yes / No)
1	Single Port		
2	Write on labels in transparent plastic window – supplied with plate		
3	Face Plate with shutter		
4	Should be able to support variety of jacks – UTP		
5	Category 6, TIA568 C.2-1 – 250MHz		
6	All information outlets for 100 W, 26 AWG copper cable shall:		
7	Shutter is on face plate		
8	Insertion force: 50N for 60+/- 5 Sec		
9	Information outlet (RJ45 jack) should be covered under UL listed / ETL verified		
	<b>Jack Specification:</b>		
11	Plastic Housing: Polycarbonate or equivalent, UL94V-2 rated or equivalent		
12	Operating Life: Minimum 750 insertion cycles		
13	Contact Material: Copper alloy		
14	Contact Plating: 50 µinches gold on plug contact area		

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15	OEM should be ISO9001 and ISO14001 certified for design, ISO 45001 developments for LAN & WAN products.		
16	Brand and company together presence in India should be for last 10 years.		
17	Keystone Jack, Faceplate should be from same OEM		

### 11. Minimum Specification of L2 managed Switch

Qty	1 No.
Make	
Model	
Part No	

Minimum Specification		Qty.	Specification (Quoted / Applicable - By the Bidder)	Complied (Yes / No)
Part No.	Description			
	Hardware and interface requirements			
1.	The switch should have minimum 24 x 10/100/1000Base-T ports and 4 x 1G/10G SFP+ uplink ports.			
2.	The switch should support stacking / virtual chassis feature by adding hardware module / software license etc., if required in future			
3	The switch should have min. 2 GB RAM and 2 GB Flash			
4	The switch should have internal AC power supply and cooling fan.			
5	For enterprise grade performance and operational flexibility, the switch should have modular operation system, software upgrades facility and management of multiple OS & configuration files.			
6	Switch should support minimum switching bandwidth of 56.0 Gbps and minimum Forwarding rate of 30 Mpps for line rate performance of a fully populated switch			
7	Switch should support minimum 16000 MAC addresses and 16000 ARP entries per system.			
8	Switch Should support minimum 1000 Active VLANs and 4000 VLAN IDs.			
9	Switch should support IPv4 and IPv6 static routing from day-1			
10	Switch should support VRRP, IGMP V1/V2/V3, OSPFV2/V3, Ring and Bidirectional Forwarding Detection (BFD), Multicast Source Discovery protocol (MSDP), Multicast Listener Discovery (MLD) v1 & v2, Real-time performance monitoring (RPM) features by			

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	adding a feature license, if required in future.			
11	OEM should be listed as Leaders in the Gartner Magic Quadrant for Wired and Wireless LAN Infrastructure from last 3 consecutive years before releasing this RFP.			

Authorized Signatory (Signature In full): \_\_\_\_\_

Name and title of Signatory: \_\_\_\_\_

Stamp of the Company: \_\_\_\_\_