

Bid Document

Bid Details	
Bid End Date/Time	28-07-2020 09:00:00
Bid Opening Date/Time	28-07-2020 09:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	30 (Days)
Ministry/State Name	Ministry Of Defence
Department Name	Department Of Defence
Organisation Name	Indian Army
Office Name	*****
Total Quantity	1
Item Category	Workstation
Bidder Turnover (Last 3 Years)	2 Lakh (s)
Experience Criteria	3 Year (s)
MSE Exemption for Years Of Experience	Yes
Startup Exemption for Turnover	Yes
Document required from seller	Experience Criteria *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Bid to RA enabled	No
Inspection Required	No

EMD Detail

Required	No
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ePBG Detail

Required	No
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Splitting

Bid splitting not applied.

1. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or

similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for number of years as indicated in the bid document before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the category of primary product having highest value should meet this criterion.

Workstation (1 pieces)

Technical Specifications

[* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
Processor	Processor Make	Intel	Intel
	Processor Generation	9	9, NA, 10 Or higher
	Number of Cores per Processor	10	10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32 Or higher
	Processor Base Frequency (GHz)	3.3	3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 4, 4.1, 4.2, 4.3 Or higher
	Processor Turbo Frequency (GHz)	4.1	*
	Processor Description	Intel Core i9	Intel Core i9, Intel Xeon E Series, Intel Xeon W Series, Intel Xeon Bronze Series, Intel Xeon Silver Series, Intel Xeon Gold Series, Intel Xeon Platinum Series Or higher
	Processor Number	Intel Core i9-9820X	Intel Core i3-8350K, Intel Core i7-8700, Intel Core i7-8700K, Intel Core i9-7940X, Intel Core i9-7980XE, Intel Core i5- 8300H, Intel Core i5- 8305G, Intel Core i5- 8400H, Intel Core i7- 8750H, Intel Core i7- 8850H, Intel Core i5-8365U, Intel Core i5-9300H, Intel Core i5-9400H, Intel Core i7-8565U, Intel Core i7-8665U, Intel Core i7-9700K, Intel

			Core i9-9820X, Intel Core i9-9900, Intel Core i9-9900K, Intel Core i9-9940X, Intel Core i9-9960X, Intel Core i7-9750H, Intel Core i7-9850H, Intel Core i9-9880H, Intel Core i9-9980HK, Intel Core i7-8550U, Intel Core i9-9980XE, Intel Core i7-9700KF, Intel Core i9-9900KF, Intel Core i7-8650U, Intel Core i9 10980HK, Intel Core i9 10880H, Intel Core i7 10875H, Intel Core i7 10850H, Intel Core i9 9980HK, Intel Core i7 10750H, Intel Core i9 8950HK, Intel Core i5 10400H, Intel Core i5 10300H, Intel Xeon E3 1535M v6, Intel Xeon E3 1505M v6, Intel Xeon E3 1575M v5, Intel Xeon E3 1535M v5, Intel Xeon E3 1545M v5, Intel Core i7 10810U, Intel Core i7 10610U, Intel Core i7 10510U, Intel Core i7 10310U, Intel Core i7 10210U, Intel Core i9 10885H, Intel Core i9 10900K, Intel Core i9 10900, Intel Core i9 10700K, Intel Core i9 10700, Intel Core i9 10600K, Intel Core i9 10600, Intel Core i9 10500, Intel Core i9 10100 Or higher
	Number of sockets available on the motherboard	1	*
	Number of Sockets populated with the Processors	1	1, 2 Or higher
	Cache (MB)	16.5	16.5 - 64.0 Or higher
	Out of Band Management	NA	*
Type	Form Factor	Desktop	Desktop
Motherboard	Chipset Number	Intel X299	Intel C422, Intel C621,

			Intel C622, Intel C624, Intel X99, Intel X299 Or higher
	Expansion Slots (PCIe x 1) (Number)	1	*
	Expansion Slots (PCIe x 4) (Number)	1	*
	Expansion Slots (PCIe x 8) (Number)	1	*
	Expansion Slots (PCIe x 16) (Number)	2	*
	Expansion Slots (PCI) (Number)	1	*
Graphics	Graphics Type	Dedicated/Discrete	Dedicated/Discrete
	Number of Graphic Cards	1	1, 2, 3, 4 Or higher
	Graphic Card Description	nVIDIA Quadro RTX 5000 16GB	nVIDIA Quadro P5000 16GB, nVIDIA Quadro RTX 5000 16GB, nVIDIA Quadro P6000 24GB, nVIDIA Quadro GP100 16GB, nVIDIA Quadro RTX 6000 24GB, nVIDIA Quadro RTX 8000 48GB, nVIDIA Quadro GV100 32GB, nVIDIA Tesla V100 SXM2 32GB Or higher
Operating System	Operating System (Factory Pre-Loaded)	Windows 10 Professional 64 bit	Windows 10 Professional 64 bit
	Recovery Image Media	CD from the OEM / Stored in Partition of the Hard Disk / USB Drive from the OEM / On Line / Cloud	*
	OS Certification	Windows,Ubuntu Linux,Redhat Linux	*
Applications	Applications Compatible with the Workstation (Requisite document may be furnished as and when demanded by the buyer)	Adobe After Effects CS/CC,Adobe Illustrator CC,Adobe Media Encoder CS/CC,Adobe Photoshop CS/CC,Adobe Premiere Pro CS/CC,Adobe SpeedGrade CC,Autodesk AutoCAD,Autodesk Inventor,Autodesk Maya,Autodesk MotionBuilder,Autodesk Mudbox,Avid Media	*

		Composer,Dassault Systèmes SolidWorks,Dassault Systèmes CATIA,PTC Creo,Siemens NX,Bentley MicroStation,ANSYS Fluent,ANSYS Workbench,Sonar Cakewalk,Maxon Cinema 4D,Landmark DecisionSpace,G1 Autodesk Revit,Autodesk 3ds Max,Unreal Engine 4 by Epic Games	
Memory	RAM Type	DDR4	*
	RAM Speed (MHz)	2666	*
	Type of Memory	Non ECC	*
	RAM Size (GB)	64	32, 64, 128, 256, 512, 1024, 2048, 3072, 4096, 48, 96, 192, 384, 768, 1536 Or higher
	Total Numbers of DIMM Slots Available	8	*
	Number of DIMM Slots Populated	4	*
	RAM Expandability upto using spare DIMM Slots (GB)	128	128, 256, 512, 1024, 3072, 4096, 384, 1536, 2048, 768 Or higher
Primary Storage /Boot Drive	Type of Drives used to populate the internal Bays	SSD	SSD
	Number of Drives	1	*
	RAID for Operating System	NA	NA
	Capacity of each Drive (GB)	512	512, 600, 768, 800, 900, 1000, 1024, 1200, 1800, 2000, 2048, 4000, 4096, 8000, 6000 Or higher
Secondary Storage	Type of Drives used to populate the Internal Bays	SATA	SATA
	Total number of Internal Bays available for SATA Drive	3	*
	Number of Internal Bays populated with SATA Drive	2	2, 3, 4, 5, 6, 7, 8, 9, 10 Or higher

Each SATA Drive Capacity (GB)	1000	1000, 2000, 4000, 8000, 6000 Or higher
Speed of each SATA Drive (RPM)	7200	*
Total SATA Drive Capacity (GB)	2000	2000, 4000, 8000, 3000, 5000, 6000, 7000, 9000, 12000, 16000, 20000, 24000, 28000, 32000 Or higher
Total number of Internal Bays available for SAS Drive	0	*
Number of Internal Bays populated with SAS Drive	0	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 Or higher
Capacity of each SAS Drive (GB)	0	300, 600, 900, 1200, 1800, 800, 0, 4000 Or higher
Speed of each SAS Drive (RPM)	0	*
Total SAS Drive Capacity (GB)	0	300, 600, 900, 1200, 1800, 2100, 0, 4000 Or higher
Total number of Internal Bays available for SSD	0	*
Number of Internal Bays populated with SSD Drive	0	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 Or higher
Capacity of each SSD Drive (GB)	0	128, 256, 512, 1024, 2048, 800, 0 Or higher
Total SSD Capacity (GB)	0	128, 256, 384, 512, 768, 1024, 2048, 4096, 0, 5120 Or higher
Total number of Internal Bays available for PCIe SSD	0	*
Number of Internal Bays populated with PCIe Drive	0	0, 1, 2, 3, 4, 5, 6, 7, 8 Or higher
Capacity of each PCIe Drive (GB)	0	128, 256, 512, 1024, 2048, 0 Or higher
Total PCIe Drive Capacity (GB)	0	128, 256, 512, 1024, 2048, 4096, 0, 1536 Or higher
Class of PCIe Drives	NA	*
RAID	RAID level	0,1,5,1+0

Connectivity	Number of RAID Controller Ports	6	6, 7, 8, 10 Or higher
	Speed of RAID Controller Ports (Gbps)	6	6, 12 Or higher
	RAID Controller Cache (GB)	0	*
	Type of Ethernet Ports	Dual Gigabit NIC 10/100/1000	*
	Number of Ethernet Ports	2	2, 3, 4, 6 Or higher
	Wireless Connectivity	No	Yes, No Or higher
	If Yes, Type of Wireless Connectivity	NA	Wi-Fi 802.11b/g/n, Wi-Fi 802.11ac, NA Or higher
	Bluetooth Connectivity	No	Yes, No Or higher
	If Yes, Version of Bluetooth Available	0	4, 4.1, 4.2, 5, 0 Or higher
Ports	Number of USB Version 2 Point 0 Ports	0	*
	Number of USB Version 3 point 0 / 3 point 1, Gen 1 Ports	8	*
	Number of USB Version 3 point 1, Gen 2 Ports	0	*
	Number of USB Type C Ports	2	*
	Number of VGA Ports	0	*
	Number of HDMI Ports	0	*
	Number of Mini DP Ports	0	*
	Number of DP Ports	4	*
Display	Display Availability	Monitor	Monitor
	Display Size (cm)	68- 71	68- 71, 72- 81, 82 - 87, 88 - 93, 94 - 97, 98 - 105, 107 - 110, 111 - 115, 116 - 120, 121 - 125, 126 - 130 Or higher
	Display Type	Non Touch	Non Touch, Touch Or higher
	Panel Type	Flat	Flat, Curved Or higher
	Panel Technology	IPS	IPS, OLED Or higher

	Display Resolution (Pixels)	2560 x 1440	3200x1800, 3840 x 2160, 2560 x 1440, 2560 x 1600, 3440 x 1440, 3840 x 1600, 5120 x 1440, 7680 x 4320 Or higher
	LED Backlit	Yes	*
	TCO Compliance for Monitor	TCO 07	*
	Colour Gamut	99% sRGB	*
	Monitor Stand	Height Adjustable	*
Power	Maximum Power (Watts)	950	*
	Minimum Power Efficiency (%)	-	*
	Power Management Unit	Yes	*
	Redundant Power Supply	No	Yes, No Or higher
Input Devices	Mouse Connectivity, If available	Wired	*
	Type of Mouse, If available	Optical Scroll	*
	Keyboard Connectivity, if available	Wired	*
	Type of Keyboard, if available	Standard with Rupee Symbol	*
	Type of Keyboard in case of Mobile Workstation	NA	*
Generic	Optical Drive	-	*
	Number of External Bays	2	*
	Security	S/W Based	*
	Docking Station for Mobile Workstation	No	*
	Availability of Bundled Software	Yes	*
	Type of Bundled Software	Artificial Intelligence Based Performance Improvement Software	*
	Finger Print Reader in case of Mobile Workstation	NA	*
	Carry Case in case of Mobile Workstation	NA	*

Certification	BIS Registration under CRS of Meity (Requisite certificate may be furnished as and when demanded by the buyer)	Yes	*
	BIS Registration Number and its Validity	-	*
	ROHS Compliance	Yes	*
	Other Certification Available (Requisite certificate may be furnished as and when demanded by the buyer)	-	*
Operating Conditions	Minimum Operating Temperature (Degree C)	5	*
	Maximum Operating Temperature (DEgree C)	35	*
	Minimum Operating Humidity (%RH)	10	*
	Maximum Operating Humidity (%RH)	90	*
Warranty	Battery Warranty in case of Mobile Workstation	0	*
	On Site OEM Warranty (Year)	3	3, 4, 5 Or higher

* Specifications highlighted in bold are the Golden Parameters.

* Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement (allowed Values) by the Buyer.

Additional Specification Documents

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	*****	*****AGRA	1	30

Bid Specific Additional Terms and Conditions

1. Bidder Turn Over Criteria: The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as

indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

[This Bid is also governed by the General Terms and Conditions](#)

---Thank You---