

### Bid Document

Bid Details	
Bid End Date/Time	30-07-2020 15:00:00
Bid Opening Date/Time	30-07-2020 15:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	30 (Days)
Ministry/State Name	Ministry Of Science And Technology
Department Name	Department Of Science And Technology (dst)
Organisation Name	Indian Institute Of Astrophysics (iia)
Office Name	Bengaluru
Total Quantity	1
Item Category	Laptop-Notebook ( <b>PAC Only</b> )
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	OEM Authorization Certificate *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.

#### Laptop-Notebook ( 1 pieces ) ( Under PAC )

Make	apple
Model	applemacbookpro16inchmvvj2hna(spacegrey)mvvl2hna(silver)

#### Technical Specifications

\* As per GeM Category Specification

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
Processor	<b>Processor Make</b>	Intel	Intel
	<b>Processor Generation</b>	9	9.0 Or higher
	<b>Number of Cores per Processor</b>	6	6, 8 Or higher
	Processor Base Frequency (GHz)	2.6	*
	<b>Processor Description</b>	Intel Core i7	Intel Core i7, Intel Core i9 Or higher
	<b>Processor Number</b>	Intel Core i7, Turbo Boost up to 4.5GHz, with 12MB shared L3 cache	Intel Core i7 9750H, Intel Core i7 9850H, Intel Core i9, Turbo Boost up to 4.8GHz, with 16MB shared L3 cache, Intel Core i9-9880H, Intel Core i7, Turbo Boost up to 4.5GHz, with 12MB shared L3 cache, Intel Core i9 9980HK, Intel Core i9 8950HK Or higher
	Out of Band Management	NA	*
Cache (MB)	12	*	
Construction	<b>Form Factor</b>	Standard	Standard
	Chassis Material	CNC Alluminium	*
	Hinges	Metallic	*
Motherboard	Expansion Slots (M Dot 2)	0	*
Graphics	Graphics Type	Dedicated/Discrete	*
	Graphic Card Description	AMD Radeon Pro 5300M	*
	<b>Size of Memory in Case of Dedicated Graphic Card (GB)</b>	4	4, 6 Or higher
	Size of VRAM in case of Integrated Graphics (MB)	0	*
Operating System	<b>Operating System (Factory Pre-Loaded)</b>	Mac OS Mojave	Mac OS Mojave
	Recovery Image Media	CD from the OEM / Stored in Partition of the Hard Disk / USB Drive from the OEM / On Line / Cloud	*
	<b>OS Certification</b>	Mac OS	Mac OS
Memory	Type of RAM	DDR4	*
	<b>RAM Size (GB)</b>	16	16, 32, 64 Or higher
	RAM Speed (MHz)	2666	*
	Total Numbers of DIMM Slots Available	0	*
	Number of DIMM Slots populated	0	*
	<b>RAM Expandability up to( using spare DIMM Slots in GB)</b>	0	8, 16, 32, 0 Or higher

Storage	<b>Type of Drives used to populate the Internal Bays</b>	SSD	SSD
	Number of Internal Bays populated with HDD	0	*
	Capacity of each HDD (GB)	NA	*
	<b>Total HDD Capacity (GB)</b>	0	500, 1000, 1500, 2000, 2500, 3000, 0 Or higher
	Number of Internal Bays populated with SSD	0	*
	<b>Capacity of each SSD (GB)</b>	512	512
	<b>Total SSD Capacity (GB)</b>	512	512, 768, 1024, 1280, 2048, 4096 Or higher
	Number of Internal Bays populated with SSHD	0	*
	<b>Capacity of each SSHD (GB)</b>	NA	8 GB Flash + 500 GB @5400 rpm, 8 GB Flash + 1000 GB @5400 rpm, 8 GB Flash + 2000 GB @5400 rpm, NA Or higher
	<b>Total SSHD Capacity in addition to 8 GB Flash (GB)</b>	0	500, 1000, 1500, 0 Or higher
	Optane Memory (GB)	0	*
Connectivity	<b>Wireless Connectivity</b>	Yes	Yes
	If Yes, Type of Wireless Connectivity	Wi-Fi 802.11ac	*
	Number of Ethernet Ports	0	*
	If available, Type of Ethernet Ports	NA	*
	<b>Bluetooth Connectivity</b>	Yes	Yes
	If Yes, Version of Bluetooth Available	5	*
Ports	Number of USB Version 2 Point 0 Ports	0	*
	Number of USB Version 3 point 0 / 3 point 1, Gen 1 Ports	0	*
	Number of USB Version 3 point 1, Gen 2 Ports	0	*
	Number of USB Type C Ports	2	*
	Number of Serial Ports	0	*
	Number of VGA Ports	0	*
	Number of HDMI Ports	0	*
	Number of DP Ports	0	*
	Number of Thunderbolt Port	2	*
Display	<b>Display Size (Inch)</b>	16	16 Or higher
	<b>Display Type</b>	Non Touch	Non Touch, Touch Or higher
	Display Technology	LED HD Backlit	*

	<b>Panel Technology</b>	IPS	IPS Or higher
	<b>Display Resolution (Pixels)</b>	3072 x 1920	3840 x 2160, 3240x2160 Or higher
	<b>Availability of Webcam integrated with Display</b>	Yes	Yes
	<b>If Yes, Resolution of Webcam</b>	FHD	FHD Or higher
	<b>Infra Red Webcam</b>	No	No
Miscellaneous	<b>Optical Drive</b>	NA	Integrated, External, NA Or higher
	Type of Optical Drive	N/A	*
	<b>Internal Speaker (Dual)</b>	Yes	Yes
	Audio-in	No	*
	Audio-out	No	*
	Headphone out	Yes	*
	Microphone-in	No	*
	Type of Keyboard	Standard	*
	Backlit Keyboard	Yes	*
	Spill Resistant Keyboard	No	*
	Pointing Device/Touchpad	Touchpad with multi-touch gestures enabled	*
	Finger Print Reader	Yes	*
	Hardware Trusted Platform Enabled	Yes	*
	<b>Carry Case</b>	No	No
	If Yes, Type of Carry Case	NA	*
	Security Lock Slot	No	*
	If Yes, Availability of Cable Lock	No	*
Weight (Including Battery) (Kilogram)	2	*	
Power	Battery Type	Integrated	*
	Battery Chemistry	Li - Polymer	*
	Battery Capacity (Watt Hour)	100	*
	Battery Backup Time (Hours)	11	*
Certification	BIS Registration under CRS of Meity	Yes	*
	BIS Registration Number and its validity	R-41000450	*
	BEE / Energy Star for the given Model	Yes	*
	ROHS Compliance	Yes	*
	Other Certifications available	CE,FCC	*
Operating Conditions	Minimum Operating Temperature	10	*

	Maximum Operating Temperature	35	*
	Minimum Operating Humidity (%RH)	0	*
	Maximum Operating Humidity (%RH)	90	*
Warranty	<b>Battery Warranty</b>	1	1, 3, 4 Or higher
	<b>On Site OEM Warranty (Year)</b>	1	1

\* 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	Vishnu Vardhan KP	560034,Indian Institute of Astrophysics 2nd block, Koramangala, Bangalore contact For order / contract details :080 22541234 For Receipt and acceptance : 080 22541340 For Bill processing : 080 22541283 For details of disbursement of payment : 080 22541239	1	15

#### Special terms and conditions for category Laptop-Notebook

- 1.As per notification of MEITY circulated vide letter no. F.No.33(1) /2017-IPHW..dated: 14/09/2017, the minimum local content should be 40 percent to qualify as local or domestic manufacturer.

#### Bid Specific Additional Terms and Conditions

- 1.Scope of supply (Bid price to include all cost components) : Supply Installation Testing and Commissioning of Goods
- 2.The buyer organization is an institution eligible for concessional rates of GST as notified by the Government of India. The goods for which bids have been invited fall under classification of GST concession and the conditions for eligibility of concession are met by the institution. A certificate to this effect will be issued by Buyer to the Seller after award of the Contract. Sellers are requested to submit their bids after accounting for the Concessional rate of GST.  
Applicable Concessional rate of GST : 5%  
Notification No.and date : 47/2017 dated 14/11/2017

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

---Thank You---