## PR Terms and Conditions for the BEL Part Numbers: 480776110168

- 1. Vendor should supply the items as per the vendor reference meeting the specifications (Both Technical and Environmental at Annexure 1) provided in the RFP.
- 2. Delivery schedule: 6 Months ARO
- 3. ATP should be prepared by the supplier and obtain the approval from the authorized representative from BEL within 60 days ARO by the supplier.
- 4. <u>Inspection, Testing and Acceptance:</u> It is the responsibility of the vendor to carry out physical inspection and Acceptance testing as per the approved ATP in the presence of Reps from BEL. Supplier should intimate to M/s BEL about the inspection schedules 30 working days in advance before delivery date. **ESS should be conducted by the supplier at their premises in the presence of representative from BEL.**
- 5. <u>Documentation:</u> Each item should be supplied with one set of documentation in both hard and soft (digitized) copies consisting of user hand book and Technical Manual.
- 6. <u>Support</u>: Supplier should provide support during system integration testing and Factory acceptance Testing (FAT).
- 7. <u>Training:</u> The supplier should provide both operator and maintenance training for user representatives at BEL, Hyderabad.
- 8. Supplier should extend support to BEL during Pre-delivery inspection of the items supplied by the supplier to the End User at BEL.
- 9. Warranty: 36 months from the date of delivery. Supplier should maintain sufficient spares to keep the down time of the system should not be more than 15 days during warranty period.
- 10. BEL Pat Number should be labeled on all Parts supplied by the supplier.
- 11. MTBF details should be provided within 60days ARO.

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## Technical Specifications of 19" Rack mountable foldable display KB (BEL P/N: 480776110168)

## **ELECTRICAL SPECIFICATIONS:-**

SI.No	DESCRIPTION	SPECIFICATIONS								
1,	System Configuration	Foldable Display with keyboard & touch pad for I with workstation CPU through VGA & DP								
2.	Diagonal	18.5"/19" LCD with LED back light								
3.	Mounting mechanism	19" rack mountable with rack mounting Kit								
4.	Resolution Min.1920 x 1080(16:9 Aspect Ratio)									
5.	Brightness 500 cd/m <sup>2</sup>									
6.	View Angle	89/89 (H); 89/89 (V) (Typ.)								
7.	Contrast Ratio	1000 : 1 (Typ.)								
8.	Display colors	Minimum 16.2 million colors								
9.	Display Interface	One VGA and one DP								
10.	Keyboard and Touch pad	Rugged Keyboard with backlight silicone rubber Keys and touch pad with left right buttons. Should be compatible with workstation CPU (Intel I7 10t gen or above)								
11.	Keyboard and Touch pad layout	Minimum 87 keys with touchpad.  Touchpad is located at bottom middle of the keyboard.								
12.	Keyboard and Touch pad I/F	USB								
13.	Connectors	<ul> <li>D38999 series Circular connectors for Power i/p.</li> <li>VGA &amp; DP port with locking connectors or specify any MIL grade connector.</li> <li>USB circular connector for keyboard and touch pad</li> <li>All connector should have dust caps with chain.</li> </ul>								
14.	Accessories	<ul> <li>19" rack mounting kit with proper sliding mechanism.</li> <li>One set of mating connectors for all the connectors mounted on foldable display</li> <li>One set of mating cables (length: 1.5m) with proper back shell sleeves and dust caps for</li> </ul>								

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	West of the State of	all the connector mounted on the foldable display.
15.	Power Supply	Single Phase AC 230V +/- 10%, 50Hz +/- 5Hz
16.	Environmental Specifications	As per Annexure -1

## MECHANICAL SPECIFICATIONS:-

S.NO	DESCRIPTION	SPECIFICATIONS									
1.	Size	19" rack mountable									
2.	Height	Standard 2U (Max)									
3.	Slides	Provision for fixing Slides to be provided									
4.	Keyboard and Touch pad panel	Minimum 87 keys with touchpad. Touchpad is located at bottom middle of the keyboard.									
		Keyboard with touch pad panel should be detachable and replaceable for maintenance purpose if in case of failure.									
5.	Color	RAL7035(Light grey), Mat Finish									

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proprietors.	5.1 C	TYPE OF		ATIONS: (AS PERENCE	R JSS 55555)  SPECIFICATIONS	REMARKS	SLN	Түр		E.	REFERENCE	SPECIFIC	CATIONS			REMARKS		
of the	SLING	TEST			Sinusoidal sweep vibration :	- Control Co		12:	-	Ref	1 JSS-55555:2002							
without written consent of the proprietors.	1	Vibration (Endurance)	Ref   JSS-55555;2002   Test No.   28   Table No.   4.28.2   Si. No.   1b		5 to 8 Hz: ±6 mm constant displacement. 8 to 500 Hz: ±1.5g constant acceleration. Sweep rate: 1 oct/min Equipment will be in ON condition. Test duration: 1 hour in each X,Y & Z axis.	Carry PC at the end of tosting on each axis	12	Roadat Bump	pility /	Test No. Table No.	5	25g, 6 ms 4000	pulse durati ±10bumps.		cor fasto mach	shall be unpack d switched OFF indition shall be uned to the bun tine either direct y mean of fixtu	np otly	
	2	High Temperature (Operational)	Ref Test No. Procedure	JSS-55555:2002 17 6	Test condition K, Temp: +55°C ±3°C, Test duration: 16 hours	PC during last 30 minutes.												
		High	Ref	JSS-55555:2002	Test condition K,	PC after 2-4 hours recovery		5.2 ESS SF			SPECIFICATIONS:							
	3	Temperature (Storage)	Test No. Procedure	6	Temp: +70°C ±3°C, Test duration: 16 hours	at the room temperature		SL.	NO PAR	AMETER	SPECIFICATIONS/ TEST DUR		ION	R	EMARKS			
139	4	Damp Heat	Ref Test No.	JSS-55555:2002 10	+40°C ±2°C, 95 ± 5 % RH Test duration : 16 hours	PC during last 30 minutes.				iom tion- Pre	20Hz-80Hz, sloping at 80Hz to 350Hz, 0.04 g2		2000	1.000	ot.will be nd carry f	The second second		
	5	Low Temperature (Operational)	Ref Test No. Procedure	JSS-55555:2002 20 4	Test condition H, Temp: -10°C ±3°C, Test duration: 16 hours	PC during last 30 minutes.			1 Them cyclin		Hz, sloping at -3 dB/oct	ave.	-zuuu					
		Low	Ref	JSS-55555:2002	Test condition J.	PC after 2-4			-	14	5min. per axis on all thr	ee axes.						
	6	Temperature (Storage)	Test No. Procedure	20	Temp:-20°C ±3°C, Test duration: 16 hours	at the room temperature		2			-10°C to +55°C  Dwell AT -10°C and +55°C for 90mins.			17.15.1875	Eqpt.will be ON and carry PC.			
1		Altitude	Raf Test No.	JSS-55555:2002	Temp:-10°C ±3°C, Altitude:5000 meters for 16 hrs	PC during last 30 minutes.					No. of cycles: 10  Rate of cooling/heating	: 5°C/minute						
	7		Table No. Procedure	4.3.1					Rand	5000	20Hz-80Hz, sloping at	+3dB/octave;		Eop	t.will be (	ON		
			Rof	JSS-55555:2002	-10°C ± 3°C RH 95% for 3 hrs	PC during last half an hour of each low and			1 Mariana	Thermal	80Hz to 350Hz, 0.04 g2 Hz, sloping at -3 d3/oct		-2000		d carry P		Contraction of the second	9/6
		Rapid	Test No.	22	Transfer Time: Not exceeding 15 minutes. Number of Cycle: 04	high temperature dwell.  Performance check after					5min, per axis on all three axes.						(B)	/\p
1	8	Temperature Cycling	Table No.		Number of Cyae, 04	2-4 Hrs recovery at room temperature.					Simil. Del anta dil an an	ee ands.					29	
		1	Procedure	2	Sadi - Chiada (NaCl) and other	temperature.		5.3	EMI/EN	AC SPEC	CIFICATIONS: AS F	PER MIL STD	-461E/F					
		Corrosion(Salt	Ref	JSS-5555:2002	Sodium Chloride (NaCl) and other chemicals composition as given in JSS.  Volume of spray: one percent per hour of	May be done on separate/					CE1	02, RE102, C	S101, CS1	14, CS1	115, CS1	16, RS103.		
18	9	Corresion(Said	Test No.	9	the volume of chamber Exposure at temp of 35°C ± 2°C and RH of 90 to 95 percent.	sample/ equipment.							PAR	N	0. –	XXXX X	XX XX	XX
					Spraying for 2 Hrs and exposure for a period of 22 hours.3 cycles.	equipment.												F
	-				Test condition B		00	-	20.0	06.21	ORIGINAL							
	10		Ref	JSS-5555:2002	2070 111 00 1 1101	on separate	ISS NO.	CN NO.	DA	ATE	CHANGE		1	1	APVD	NUMBER		м от
		Tenologi	Tost No.	12	At 35°C and 95% RH for 12 Hrs. Lower the temp from 35°C RH 95% to 20°C ±5°C in		MATE				FINISH	PROJECT			DIMNS IN MM		BLY HE	ELD IN
		Tropical			03 Hrs. At 20°C ±5°C for 06 Hrs. Total 24 Hrs one cycle:14 cycles.	UUT).	DRAV	I to the last	CHECK	FD.	ENGINEED I	TITLE						ari.
	11	Mould growth	growth Ref JSS-555552002 Prepare the cultures, mould suspensions.  Test No. 21 control strips. Wet the entire surface with	May be done on separate/				SHARAN KUMAR NTS				ERNAL EQUIPMENT						
		1021		The same of the same	mixed spore suspensions for 15 minutes. Incubate at 29°C, 90% <rh<100%.< td=""><td>sample/</td><td>DT20</td><td>06.21</td><td>DT20.0</td><td>6.21</td><td>DT20.06.21 D00</td><td>C NUMBER</td><td>1</td><td></td><td></td><td>S</td><td>HEET ISSUE</td><td>E SIZ</td></rh<100%.<>	sample/	DT20	06.21	DT20.0	6.21	DT20.06.21 D00	C NUMBER	1			S	HEET ISSUE	E SIZ