

Technical Document

Tech Doc No:	AAG/HVG/TD/22/	Date	/ /2022									
1	Description of Stores / Services : DC DC Converters 28AV100 & 28AV2000											
2	Introduction: DC-DC Converter is required to convert the input low voltage to high voltages over a particular range. The high voltage DC-DC Converter is employed for charging the capacitor to the desired voltage.											
3	Scope of Work: 1. DC- DC Converters 28AV100 - 120 Nos. 2. DC- DC Converters 28AV2000 - 120 Nos.											
4	Specification: As per Appendix 'A' of Annexure 'E'											
5	Essential Specifications & Desirable Specifications: As per Appendix 'A' of Annexure 'E'											
6	Vetted Drawings: Not Applicable											
7	Vetted QA Documents (QAP / QTP / ATP / Others): Not Applicable											
8	Inspection Plan: As per Annexure 'G'											
9	List of Deliverables: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 5%;">S.No.</th> <th style="width: 70%;">Item</th> <th style="width: 25%;">Quantity</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>DC - DC Converter 28AV100</td> <td style="text-align: center;">120 Nos.</td> </tr> <tr> <td style="text-align: center;">2.</td> <td>DC - DC Converter 28AV2000</td> <td style="text-align: center;">120 Nos.</td> </tr> </tbody> </table>			S.No.	Item	Quantity	1.	DC - DC Converter 28AV100	120 Nos.	2.	DC - DC Converter 28AV2000	120 Nos.
S.No.	Item	Quantity										
1.	DC - DC Converter 28AV100	120 Nos.										
2.	DC - DC Converter 28AV2000	120 Nos.										
10	FIM details (if applicable): NA											
11	Special Packaging Requirements (if applicable): Not Applicable											
12	Training Requirements (if applicable): Not Applicable											
13	Post Warranty AMC (if applicable): Not Applicable											
14	Product Support (if applicable): Not Applicable											
15	Buy Back Details (if applicable): Not Applicable											
16	Vender Qualification Details (if applicable): Not Applicable (a) Technical Capabilities											
		Not Applicable										

Expertise available in the critical areas to complete the task	
(b) Manufacturing Facilities Availability of Infrastructure required to carry out the activity	Not Applicable
(c) Financial Capabilities Should have minimum financial resources to execute the order Numbers of such type of contracts executed in past.	Not Applicable
(d) Management Capabilities Availability of Quality Management System, Quality Control System etc. Compliance of delivery schedule.	Not Applicable
(e) Other Specific criteria (if any)	Not Applicable
<p><u>Important note:</u> For turnover related yardstick, guidelines issued by by CVC on pre-qualification criteria vide OM No.12-02-1-CTE-6 dated 17-Dec-2002 as amended need to be referred</p>	

✓ (4)

1. Specifications of 28AV100 DC-DC Converter

S.No	Parameter	Requirement
1.	Input Voltage	28 V
2.	Input Current at Full Load	60mA
3.	Output Voltage	100 V
4.	Max Load Current	12.50mA
5.	Max Output Power	1.25 watts
6.	Full Load Output Voltage Tolerance	±3 %
7.	Storage Temperature	-55°C to +125 °C
8.	Size	0.5" X 0.5" X 0.5"

2. Specifications of 28AV2000 DC-DC Converter

S.No	Parameter	Requirement
1.	Input Voltage	28 V
2.	Input Current at Full Load	57mA
3.	Output Voltage	2000 V
4.	Max Load Current	625 μ A
5.	Max Output Power	1.25 watts
6.	Full Load Output Voltage Tolerance	±3 %
7.	Storage Temperature	-55°C to +125 °C
8.	Size	0.5" X 0.5" X 0.5"

**QA Test Plan for
DC-DC Converters 28AV100 & 28AV2000**

1. Physical inspection for all the converters will be done for any damage and size of the converter will be measured & it should not be more than 0.5" X 0.5" X 0.5".
2. The converters will be tested with $28V \pm 4V$ input voltage & the output voltage should be $2kV \pm 200V$
3. The converters should be able to withstand storage temp. from $-30^{\circ}C$ to $+70^{\circ}C$.

