

Annexure-I
Specifications of High Voltage Thyatron

Sr No.	Parameters	Required Specifications	Compliance Specifications
01.	Peak forward anode voltage, <i>kV</i>	20	
02.	Peak forward anode current, <i>A</i>	4000	
03.	Average anode current (<i>ib</i>), <i>mA</i>	80	
04.	Pulse repetition rate, <i>Hz</i>	100	
05.	Anode current pulse width, μs	0.3	
06.	Heater R voltage, <i>V</i> , (<i>Range</i>)	3.0/7.0	
07.	Heater R current (at $U_h = V$), <i>A</i>	2.5	
08.	Heater G voltage, <i>V</i> , (<i>Range</i>)	3.0/7.0	
09.	Heater G current (at $U_h = V$), <i>A</i>	2.5	
10.	Grid 1 open circuit trigger voltage, <i>kV</i>	2 - 6	
11.	Grid 2 open circuit trigger voltage, <i>kV</i>	2 - 6	
12.	Grid 1 pulse current, <i>A</i>	2 - 5	
13.	Grid 2 current amplitude, I_g ,	2 - 5	
14.	Grid 2 pulse duration, μs	0.5 - 4	
15.	Grid 1 DC current, <i>mA</i>	5 - 50	
16.	Grid bias voltage, <i>V</i>	- (50 - 150)	
17.	Readiness time, min	5.0	
18.	Peak Reverse Anode Voltage, <i>kV</i> (Non simultaneous)	1 - 8	
19.	Anode Heating Factor $P_b = (U_a \cdot I_b \cdot f)$, <i>V.A.Hz</i>	$> 50 \times 10^9$	
20.	Time Jitter, ns	< 2.0	
21.	Required Quantity	05 Nos.	

Note:

1. Make should be clearly mentioned.
2. Detailed Data sheet and drawing should be sent with quotation.
3. Test certificate from the manufacturer should be submitted along with the supply..
4. Item should be supplied in original sealed packing from manufacturer with certificate of conformance.
5. Quoting parties should submit an authorisation certificate from the manufacture.
6. It is mandatory to send filled “**compliance Specifications**” sheet with quotation, otherwise quotation will be rejected.

Annexure-I
Specifications of Thyatron Trigger system

Sr No.	Required Parameters	Required Specifications	Compliance Specifications
01.	Power Input:-Voltage	110-230 Vac	
02.	Power Input:-Frequency	47-63 Hz	
03.	Power consumption	< 100 W	
04.	BNC Input Voltage	9-11 V	
05.	BNC Input Current	100 mA	
06.	BNC Input Pulse Width	2-5 μ s	
07.	Fiber Optic Input HFBR-2412Z	820 nm	
08.	Reservoir Heater Voltage	3.5-7.5 V	
09.	Reservoir Heater Current	2.5 A	
10.	Getter(Heater 2) Voltage	3.5-7.5 V	
11.	Getter(Heater 2) Current	2.5 A	
12.	DC Grid 1 Priming Voltage	2 \pm 0.5 kV	
13.	DC Grid 1 Current	20 \pm 5 mA	
14.	Grid 1 Pulsed Priming Peak Current	4 \pm 1 A	
15.	Grid 2 Open Circuit Voltage	4 \pm 1 kV	
16.	Grid 2 Short Circuit Peak Current	4 \pm 1 A	
17.	Grid 2 Current Pulse Duration(FWHM)	2 \pm 0.5 μ s	
18.	Grid 2 Voltage Rate of Rise	> 8 kV/ μ s	
19.	Output G2 bias voltage	-80 \pm 10 V	
20.	Internal trigger Pulse repetition rate	10/400 Hz	
21.	External trigger Pulse repetition rate	1/900 Hz	
22.	Oscilloscope synchronization signal	5 \pm 1 V	
23.	Jitter	<10 ns	
24.	Required Quantity	03 No.	

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