

CENTRAL POWER RESEARCH INSTITUTE



Test Report No. 399EATDBT11S0044

Dated. 01.08.11

Sheet 2 of 4

TEST RESULT

Sl. No	Test Conducted	Clause Reference/ Specified Requirements / conditions	Results/values obtained
1.	Capacity	Clause: 5.1 & 7.1 The Battery shall reach at least 100% of the rated capacity(45Ah) within 5 cycles when charge and discharge cycle is repeated.	The capacity of the Battery First Cycle = 41.51 Ah Second Cycle = 46.59 Ah
2.	High Rate Discharge characteristics	Clause: 5.2 & 7.2 The minimum discharge time of the battery shall be 27minutes at 9.6 volts, when discharged at $20 \times I_{20}$ Amps (45 A).	<u>Discharge Time</u> 39minutes 56seconds.
3.	Maximum permissible current	Clause: 5.5 & 7.5 The battery shall show no distortion or other damage when discharged at current i) $I_m = 40 \times I_{20}$ Amps (90 A) for 300seconds ii) $I_h = 300 \times I_{20}$ Amps (675 A) for 5 seconds The minimum discharge time of the battery shall be 150 seconds at 8.04 volts, when discharged at $40 \times I_{20}$ Amps (90A).	Withstood without any damage. Withstood without any damage. Discharge Time = 964 seconds.

Test Engineer