

**Cooling tower performance guarantee (PG) test shall be in line with CTI , ATC 105 :
"Acceptance Test Code for Water Cooling Tower" for the following parameters:**

Sl. No	Parameters	Data	Unit
1	Cooling Water Flow Rate	507826 (CELL 11W+1S)	(m ³ /h)
2	Cooling Tower Inlet Temperature (HWT)	41.5	°C
3	Cooling Tower Outlet Temperature (CWT)	32.5 (Guarantee)	°C
4	Design Ambient Wet Bulb Temperature	28	°C
5	Design Inlet Wet Bulb Temperature	28.5	°C
6	Fan Power Consumption	Bidder to fill up	BKW
7	Sound Level @ 1 m	85	dBA

Performance Guarantee attracting liquidated damages:

SI No.	Description	Parameter for Performance Guarantee	Rate of liquidated damages	Applicability of bid evaluation / LD
1	Cooling Tower Cold Water Temperature (CWT)	a) The acceptance limit without LD is permissible for the guaranteed value of cold water temperature (CWT) 32.5 °C b) If the cold water temperature exceeds the guaranteed value 32.5 °C, LD shall be levied for increase in cold water temperature upto 0.5 °C per 0.1 °C. increase of the cold water temperature (CWT) at design condition. Limited Value : Increase of cold water temperature more than 0.5 °C (i, e more than 33 °C) from the guaranteed value of 33 °C, IDCT shall be rejected.	For every 0.1°C of increase of the cold water temperature (CWT) at design condition from the guaranteed value	Only LD

Demonstration parameters for cooling tower :

Sl. No	Demonstration parameters for cooling tower.	Data	Unit
1	Cooling Range	9 (41.5 – 32.5)	°C
2	Cooling Approach	4.5 (32.5 to 28)	°C
3	Cooling Tower Efficiency	Bidder to fill up	%
4	Heat Load	Bidder to fill up	KW
5	Water loss (evaporation loss, drift loss & blowdown loss) factors	Bidder to fill up	%
6	COC	5	
7	Liquid-to-Gas Ratio (L/G)	Bidder to fill up	