

ANNEXURE – I
TECHNICAL SPECIFICATIONS

Cooling Tower Model	Induced draft counter flow Series 9KF 9881-2 T.O.
Qty.	1 No.
Number of cell per tower	2 Nos.
PERFORMANCE	
Total water flow rate	792 CMH
Water flow rate per cell	396 CMH
Hot Water Temperature	44°C
Cold Water Temperature	35°C
Wet Bulb Temperature	32°C
Design relative humidity	60%
Wet bulb temperature at the tower inlet	32°C
Relative humidity at the tower inlet	60%
Relative humidity at the stack outlet	100%
Evaporation loss	1.62%
Drift loss	0.005%
Blow down loss (on the cycle of three concentration)	0.805%
Make up water quantity	2.43%
Tower capability	100%
DESIGN DATA	
Width	4986 mm.
Length	9866 mm.
Height	4312 mm.
FAN	
Type	Axial flow, type H-3-9, induced draft propeller fan
Fan blade material	Cast aluminium alloy
Total fan efficiency	7.8%
Fan absorbed KW	19 . Fan
Fan speed design load	320
Fan speed, Min	160
GEAR BOX	
Series/Type of gear	22.2/Spiral bevel
Transmission efficiency	
Lubrication	Oil
Ratio	4.56:1
Service factor	>2
FILL	
Type	Film fill

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DRIFT ELIMINATOR	
Type	PVC cellular 3 pass eliminator
Power consumption at motor inlet terminal per cell	
Motor selected	30
No. of motors per tower	2
Voltage/Ph/frequency of electrical supply	415±10%, 3 Ph, 50Hz±5%
Type of starting/control	VFD
Efficiency class	IE 3 (IE2 with VFD)
VFD Compatibility	Yes
Motor speed	1450
Motor frame size	
Motor mounting	Foot Mounted
Enclosure	IP 55
Painting	Epoxy
MATERIAL OF CONSTRUCTION	
Structural Framework	Pultruded FRP
Casing	FRP
Fill	PVC
Eliminators	PVC
Ladder	HDG
Nozzles	Polypropylene
Fan cylinder	FRP
Fan Guard	HDG steel
Fasteners (Bolt, nut and washer)	SS 304
Mechanical equipment support	HDG steel
Cold Water Basin	RCC (By Purchaser)