6	Cooling System	Indirect cooling system of open circuit type consisting of special heat exchange shall be provided to the vehicle to enable full power outlet to be maintained during pumping duty without overheating and hot water is discharged to waste.	
7	Power Take Off (PTO)	The Power Take Off would be heavy duty indigenous origin of VAS Make Model V3N or equivalent Mechanically & Pneumatically control having ratio 1:1.27 and the lever for engaging the power take off shall be provided in the Driver's cabin.	
8	Monitor	One water monitor of minimum discharge of 1400LPM @7kg/cm^2 water shall be provided on the top of the driver cabin/tender in such a manner that a member of fire crew can operate in mutually.	
9	Chassis	The tender shall be fabricated on truck Euro III chassis of appropriate size. Drag hook or eye of adequate strength shall be provided at the rear and front.	
10	Hose Real	2 Nos 60m X 19mm hose shall be provided near the control panel.	
11	Ladder Gallows	Gallows to carry 10.5 mtrs. Extension ladder would be provided on the appliance.	
12	Dry Chemical Powder	2 X Nos. 25 kg. each DCP cylinders with Hose Reel shall be provided.	
13	Stability	Fully laden vehicle shall be tested for stability test at 27.5 degree and the vehicle shall not topple down. Gradient test shall be carried out at 1:4.	
14	Control Panel & Instruments	Control Panel & Instruments as necessary for efficient operation and maintenance such as Throttle control, Pressure Gauge, Compound gauge, primer control, cooling water control, Delivery valves, Water level indicator, Suction mouth, Pump to Hose reel control, Tank to pump control	
15	Cab	The front compartment of driver's cabin shall all steel construction with insulated roof, right hand drive, laminated glass windscreen, wipers, glass windows on doors, and shall be provided with two independent foam cushioned seated for driver and an officer. Driver's seat shall be adjustable. Rear compartment should be provided with fixed cushioned seat for at least 5 fire men.	

Mechanical Engineer