

TRIAL DIRECTIVE OF WATER TANKER OF CAPACITY 12KL WITH FIREFIGHTING PUMP

Sl. No.	Technical Parameter	QRs/Specification	Procedure suggested for Trial	Result expected/desired
A	SCOPE OF SUPPLY	i) The chassis shall be supplied by the manufacturer. ii) A 6x2, full forward control, any suitable indigenous make, BHARAT STAGE IV/ latest version with cowl chassis. iii) Fabrication and mounting of 12000 Ltrs capacity water tank as per specification. iv) Supply and mounting of high & low pressure firefighting pump as per specification. v) Supply and mounting of water monitor. The Water Tanker shall be used to carry the water for fire fighting purposes. The pump will be driven by P.T.O.	As per the certificates provided by the firm and physically check by BOO	It should meet the QRs
B	USE	The Water Tanker shall be used to carry the water for fire fighting purposes. The pump will be driven by P.T.O.	Should meet the requirement	It should meet the QRs
C	DETAILED SPECIFICATIONS			
1	CHASSIS	The chassis shall be suitable Indigenous make as per following specifications suitable for mounting Water Tank having <u>12000 ltrs</u> capacity with pump. 1.1 Make of the chassis: 6X2, 25T, 180 BHP, full forward control, cowl chassis, BS-IV or any suitable indigenous make. 1.2 Type: 6X2, cowl chassis, full forward control, RHD, wheel base shall not be less than 4600 mm.	As per the certificates provided by the firm and physically check by BOO As per the certificates provided by the firm and physically check by BOO As per the certificates provided by the firm and physically check by BOO	It should meet the QRs It should meet the QRs It should meet the QRs

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	1.3 Engine: 6 In line cylinder, water cooled, direct injection, turbo charged diesel engine developing minimum 180 B.H.P. with Bharat Stage IV/ latest version.	As per the certificates provided by the firm and physically check by BOO	It should meet the QRs
	1.4 GVW: Shall not exceed maximum permissible limit weight of chassis.	As per the certificates provided by the firm and physically check by BOO	It should meet the QRs
	1.5 Fuel Tank: As per OEM.	As per the certificates provided by the firm and physically check by BOO	It should meet the QRs
	1.8 Final Drive: Tandem bogie with hub reduction and differential lock between axles.	The vehicle shall be driven on a side slope of 15 degree.	It should meet the QRs
	1.6 Tyres & Wheels: As per OEM, Spare wheel : 1 No.	The vehicle shall be driven and turned right and left.	It should meet the QRs
	1.8 Tools: a) Hydraulic jack 40 Ton with lever b) Wheel spanner with lever c) Standard Tool kit. d) Tyre inflation hose.	Shall be checked physically for their operation.	It should meet the QRs
	1.9 Manuals (1 copy): a) Workshop manual b) Spare parts catalogue	To be provided by the firm and checked by BOO.	It should meet the QRs
	1.10. Driver Cabin: The chassis shall be fabricated for accommodation of 06 personnel including driver, Driver view mirror Cabin, windscreen, side windows, doors, adjustable driver seat, fixed Co-driver seat, wiper system, Horn, complete instrument cluster, preferably in PO RED colour.	As per the certificate provided by the Firm and physically check by BOO.	It should meet the QRs

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2	WATER TANK	<p>2.1 The water tank shall have a capacity of 12000lts when fully filled and made from SS sheet of grade 304 as per IS 6603, and Rectangular in shape with round corners. The tank shall be mounted on the chassis behind the driver's cabin. The detailed design drawing of the tank with its mounting shall be submitted with tender for scrutiny.</p> <p>2.2 The water tank shall be mounted behind the driver cabin with a gap of min.450 mm.</p> <p>2.3 The mounting of tank shall be directly on the chassis and as per the design approved by the chassis manufacturer.</p> <p>2.4 The tanks shall be rectangular in shape, with inbuilt forming (reinforced ribs) on both the sides. The sheet thickness shall be as follows:- Bottom : 6mm Sides/front/Rear/Top : 4mm Baffles : 4mm</p> <p>2.5 Center of gravity of the vehicle shall be minimum.</p>	<p>The firm shall provide certificates. In addition, the BOO shall physically inspect /test /checked.</p> <p>The BOO shall physically inspect /test /checked.</p> <p>The BOO shall physically inspect /test /checked.</p> <p>The BOO shall physically inspect /test /checked.</p> <p>The BOO shall physically inspect /test /checked.</p>	<p>It should meet the QRs</p> <p>It should meet the QRs</p> <p>It should meet the QRs</p> <p>It should meet the QRs</p> <p>It should meet the QRs</p>
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		As per the certificate provided by the Firm and physically check by BOO.	It should meet the QRs
	<p>2.6 The tank construction shall be such that there shall be no leakage and shall have overlapped joints of 25.4mm between the bottom sheet and side sheets. The bottom sheet corner shall be rolled upward up to a minimum of 300mm height and shall be welded to side sheets. The dimensions of the tank along with the recess for fire pump shall be clearly stated in the offer along with detailed volumetric calculation.</p>	As per the certificate provided by the Firm and physically check by BOO.	It should meet the QRs
	<p>2.7 All the welding shall be by MIG welding process only. The welding of the tank shell be in such a manner that the first beading is from inside the shell and subsequent bead from outside the shell. The welded surface shall be cleaned of all slags, scale etc. There shall be minimum joints in the tank shell and hence plates used for fabrication of tank shall be of maximum size.</p>	As per the certificate provided by the Firm and physically check by BOO.	It should meet the QRs
	<p>2.8 The water tank shall be mounted on the chassis on a sub frame using Rubber Metacones with sufficient saddle supports placed as per the availability of bolt holes in the chassis frame. The details shall be submitted along with the offer. These supports shall be fabricated from S.S. plate of minimum 10mm thick with a reinforcement plates of 6mm thick welded to tank shell from outside to the bottom sheet up to with continuous welding.</p> <p>2.9 S.S. plate of suitable size and thickness shall be welded to the tank mounting pedestal for mounting the tank on mounting brackets provided in the chassis frame. The plates/brackets fitted to chassis frame shall also be provided with suitable gusset plates for reinforcement.</p>	The BOO shall physically inspect /test /checked.	It should meet the QRs

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	The BOO shall physically inspect /test /checked .	It should meet the QRs
2.10 The Tank shall be fitted on the chassis with the help of 5/8" dia. High tensile bolts with nylock nuts.	The BOO shall physically inspect /test /checked .	It should meet the QRs
2.11 The tank shall be mounted slightly sloping towards the rear so as to decant the tank completely.	The BOO shall physically inspect /test /checked .	It should meet the QRs
2.12 There shall be two circular manhole of 600mm dia. Mounted on top of the tank.	The BOO shall physically inspect /test /checked .	It should meet the QRs
2.13 The water tight manhole cover of SS with good quality of rubber gasket shall be bolted to the collar of manhole. The manhole cover shall be provided with round threaded blank cap with lugs of 10" dia. with rubber gasket	The BOO shall physically inspect /test /checked .	It should meet the QRs
2.14 The tank shall be provided with suitable arrangement of baffle plates to prevent the surge of water when the vehicle is in motion and accelerating, braking in speed and covering. The arrangement of baffle plates shall be clearly shown in the drawing.	The BOO shall physically inspect /test /checked .	It should meet the QRs
2.15 The baffle shall be arranged in a manner to facilitate the movement of a person throughout the tank for cleaning and welding purposes.	The BOO shall physically inspect /test /checked .	It should meet the QRs
2.16 Suitable eyes shall provide on the shell of water tank to enable it to be lifted from the vehicle for repairs/replacement as and when required.	The BOO shall physically inspect /test /checked .	It should meet the QRs

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		The BOO shall physically inspect /test /checked .	It should meet the QRs
	2.17 The tank shall be fitted with 100mm dia. Overflow pipe of 'C' class galvanized taken down below the chassis but without reducing the ground clearance.	The BOO shall physically inspect /test /checked .	It should meet the QRs
	2.18 The tank shall be fitted with one 63 mm instantaneous hydrant connection with non-return valve, closed to pump panel for filling the tank throughout 50mm above galvanized 'C' class pipe.	The BOO shall physically inspect /test /checked .	It should meet the QRs
	2.19 A draw pipe of 100 mm dia. of 'C' class galvanized shall be taken from the tank to the pump suction inlet, incorporating 100 mm butterfly valve of flexible connection (Rubber Below) shall be provided to this pipe to take the vibrations. A suitable size sump shall be provided below the tank to connect water draw pipe with SS strainer.	The BOO shall physically inspect /test /checked .	It should meet the QRs
	2.20 A drain cock with 50 mm suitable ball valve shall be provided at the bottom of water tank.	The BOO shall physically inspect /test /checked .	It should meet the QRs
	2.21 A cat ladder shall be provided and fitted at the rear of water tank and fabricated out of 1" dia. M.S. tabular pipe and 2mm thick.	The BOO shall physically inspect /test /checked .	It should meet the QRs

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		The BOO shall physically inspect /test /checked .	It should meet the QRs
	2.22 The complete top of water tank shall be covered with 10SWG aluminium chequered plate and fixed to the frame fabricated from 40 x40 x 4 mm S.S. angles properly welded to the tank shell. The chequered plates shall be bolted to this frame and shall be removable type.	The BOO shall physically inspect /test /checked .	It should meet the QRs
	2.23 Suction hose brackets of aluminium sheet of 3.15 mm thick with suitable fastening arrangement shall be provided on the top deck to accommodate 4 Nos. 140 mm dia. and 2.5 mtrs. Length suction hoses with male and female couplings.	The BOO shall physically inspect /test /checked .	It should meet the QRs
	2.24 The locker of suitable size shall be provided with doors and locking arrangement on both sides. The location and size shall be shown in the drawing. These lockers will be used for keeping delivery hoses accessories and high pressure hose reel. The structure of the locker shall be made from 40x40x4 mm thick S.S. angles with 16SWG aluminium panelling from outside and 16SWG aluminium chequered plate from inside. The floor panelling of locker shall be 10 SWG aluminium chequered plates	The BOO shall physically inspect /test /checked .	It should meet the QRs
	2.25 Suitable rear mudguards made from 16 SWG M.S. sheet with reinforcing ribs shall be provided and supported on MS. brackets.	The BOO shall physically inspect /test /checked .	It should meet the QRs
	2.26 A suitable towing hook shall be provided at the rear of vehicle.	The BOO shall physically inspect /test /checked .	It should meet the QRs
	2.27 An additional draw pipe of 150 mm dia. of 'C' class galvanized incorporating 150 mm butterfly " Audco" make valve with gun metal, female suction hose coupling shall be provided to the rear side of the vehicle.	The BOO shall physically inspect /test /checked .	It should meet the QRs

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