



स्टेट ट्रेडिंग कार्पोरेशन ऑफ इण्डिया लिमिटेड
(भारत सरकार का एक उपक्रम)
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**GENERAL IMPORTS DIVISION
(6TH FLOOR)
TENDER NO. STC/GID/433/2015-16 Dated 15.12.2015**

क्रेश फायर टैंडर के आयात हेतु हमारे अंतिम प्रयोक्ता उपभोक्ता की ओर से एक सुदृढ़ इन्क्वायरी है

We have a firm enquiry for import/supply of **CRASH FIRE TENDERS** from one of our end user customer:-

The detailed specifications and Terms & Conditions are as under

TECHNICAL SPECIFICATIONS FOR CRASH FIRE TENDERS (CFTs.)

GENERAL:-	Accepted	Deviation
1.1 The CFTs shall be supplied as a complete built-up unit and have a minimum rated water capacity, for usable 9,000 liters or more of water through monitor, side lines and ground sweep nozzles/under truck nozzles with capability as given below. The primary extinguishing agent shall be Foam Concentrate with proportioning system. In addition to primary agent, there shall be complimentary extinguishing agent of a dry powder as indicated at Item 1.17.		

1.2.1 CHASSIS			
<p>(i) The chassis shall be of 6x6 configuration, customized for CFT application, with specially designed axles (not off-set rims), ensuring specified side slope stability, at the rated capacity of each axle, meeting the performance parameters as per 1.1.1(a).</p> <p>(ii) The width of the vehicle should not exceed 2600 mm (excluding rear view mirrors). Chassis shall be compatible with Indian motor vehicle act for registration.</p>			
Table 1.2.1(a) Fully Loaded Vehicle Performance Parameters			
Sl.No.	Performance Parameters	Range	
01.	Side slope stability (degrees)	30	
02.	Dynamic balance (kmph), minimum speed on a (30m) radius circle	35.5	
03.	Angle of approach (degrees)	30	
04.	Angle of departure (degrees)	30	
05.	Inter-axle clearance (degrees)	12	
06.	Underbody clearance (cm)	46	
07.	Underaxle clearance at differential housing bowl (cm)	33	
08.	Diagonal opposite wheel motion (cm)	36	
09.	Wall-to-wall turning diameter	<Three times the vehicle's overall length	
10.	Maximum acceleration time from 0 to 80 kmph (seconds)	<28	
11.	Top speed (kmph)	>110	
12.	Service brake: Stopping distance		
	i. From 33 kmph	< 11 m	
	ii. From 64 kmph	< 40 m	
	iii. Percent grade holding of fully loaded vehicle:		
	a. Ascending	≥ 50 %	
	b. Descending	≥ 50 %	
	iv. Emergency brake stopping distance at 64 kmph	≤ 88 m	
13.	Parking brake:		
	i. Percent grade holding for the parking brake		
	a. Ascending	≥ 20 %	
	b. Descending	≥ 20 %	
14.	Steering	Centre/Off Centre/ Right Hand	
15.	Drive	On all wheels	
16.	Fordability (mm)	≥ 608	
17.	Minimum angle of Tilt (Static)	30	

Table 1.1.1(b) Fully Loaded Vehicle Performance Parameters

Sl.No.	Performance Parameters	Range	Accepted	Deviation
01.	Vehicle Water Tank Capacity Minimum Usable	9,000 litres or more		
	Water tank: Percent of deliverable water			
	a. On level ground	100 %		
	b. On 20 percent side slope	85 %		
	c. 30 percent ascending/descending grade	85 %		
02.	2a. Roof turret (monitor) discharge- at full flow			
	a. Individual flow rate of the roof turret (L/min)	> 3000		
	b. Stream pattern/distances:			
	i. Straight/far point (m)	≥ 65		
	ii. Dispersed/far point (m)	≥ 20		
	iii. Dispersed/width (m)	≥ 11		
	2b. Bumper Turret			
a. Individual flow rate of the Bumper Turret (L/min)	> 950			

	b. Stream pattern/distances:		
	i. Straight/far point (m)	≥ 46	
	ii. Dispersed/far point (m)	≥ 15	
	iii. Dispersed/width (m)	≥ 9	
	2c . Ground sweep nozzle		
	a. Number of nozzles	2	
	b. Flow rate (L/min) Per nozzle	Refer Para 2d below	
	c. Dispersed pattern distances		
	i. Far point (m)	≥ 9	
	ii. Width (m)	≥ 3.5	
	2d.Under truck nozzle		
	a. Flow rate (L/min) per nozzle	The combined flow rate of two ground sweep nozzles and four under truck nozzles should not be more than 500 liters per minute	
	b. Number of nozzles	4	
03.	Number of water/foam handlines required per vehicle		
	Pre-Connected water/foam handlines (numbers), with Hose dia63 mm, length ≥ 30 metre	2	
	3a.Foam hand line:		
	a. Nozzle flow rate (L/min)	≥ 450 at 7 bar	
	b. Straight stream distance (m)	≥ 25	
	c. Dispersed stream pattern		
	i. Range (m)	≥ 6	
	ii. Width (m)	≥ 4.5	
	d. Hose inside diameter (mm)	63	
	e. Hose length (m)	≥ 30	
	3b. Reeled water/foam hand line (first aid hose reel)		
	a. Nozzle flow rate (L/min)	≥ 230 for dual agent lines	
	b. Hose length (m)	≥ 30 for dual agent line	
	c. Straight stream distance (m)	≥ 20	
	d. Dispersed stream pattern		
	i. Range (m)	≥ 6	
	ii. Width (m)	≥ 4.5	
04.	Complementary agent- Dry Chemical Powder		
	a. Capacity (kg)	≥ 250	
	4a. Dry chemical hand line:		
	i. Discharge rate (kg/sec)	≥ 2.5	
	ii. Range (m)	≥ 7.5	
	iii. Hose length (m)	≥ 30	
05.	Foam Tank usable capacity (litres)	1200	
06.	Pump capacity	4500 L/min or	
07.	Foam proportionate	Automatic with 3,6 & 8%	
08.	Cabin	4+1	
09.	Testing and acceptance procedure:	As per specifications and inspection	

1.1.1 GENERAL REQUIREMENTS	Accepted	Deviation
<p>1.1.1.1 The CFTs shall consist of a water tank of 9000 litres or more of usable water capacity with necessary fittings. The primary extinguishing agent shall be foam concentrate, with 3%, 6% & 8% of foam concentrate. For this purpose a foam concentrate tank of 1200 litres usable capacity shall have to be provided.</p> <p>A midship mounted pump, either coupled with the auxiliary engine (emission levels shall be equal to or below than, the prescribed limits of Bharat Stage IV/Euro IV levels), or driven of the vehicle PTO mechanically, shall be fitted, having a minimum output of 4500 L/min at suitable delivery pressure and suction lift 3 metres.</p> <p>When discharging foam solution, the pumping system shall be capable of discharging at a rate equal to or exceeding the total requirements of the roof turret (monitor), Bumper Turret/ two handline nozzles, ground sweep nozzles, and undertruck nozzles discharging simultaneously at designed pressures.</p>		
<p>1.1.1.2 The Crash Fire Tender (CFT) shall be capable of the following minimum performance with the monitor mounted on the roof of cabin and two hand lines on either side.</p>		
<p>1.1.1.2.1 An individual output of 3000 L/min through monitor at maximum rated pressure to give throw as per of either water or specified quality foam concentrate.</p>		
<p>1.1.1.2.2 A minimum output of 450 L/min of foam solution to each of the handlines on either side of the CFTs to give minimum effective throw, specified for foam concentrate, of 25 metres at nozzle pressures not exceeding 7 bar and using 30 mtrs. specified hose.</p>		
<p>1.1.1.2.3 It shall be possible to operate the monitor and two hand lines simultaneously at pump delivery pressure suitable to the rated output and throw of monitor.</p>		
<p>1.1.1.3 The foam concentrate induction shall be automatic with changes in output required through a combination monitor and hand lines. The ratio of foam concentrate induction shall be within a variation ± 0.5 with an induction setting from 3%, 6% & 8% ratio. The induction ratio once fixed shall maintain this limit of variation for the entire range of inductor setting. Around the pump proportionater shall be used with clearly marked induction ratios varying from 3%, 6% & 8%.</p>		
<p>1.1.1.4 The system of foam production from monitor and hand lines shall be so designed as to produce satisfactory quality of foam with the following minimum properties with the use of foam concentrate.</p>		
<p>1.1.1.4.1 Minimum expansion ratio - 8</p>		
<p>1.1.1.4.2 25% drainage time with foam concentrate level 'A' 5 minutes minimum 1.1.1.4.3</p>		

1.1.1.4.4	25% drainage time with foam concentrate level 'B' 3 minutes minimum		
1.1.1.5	It shall be possible for the CFT to use water from a separate source from open source and/or an external source of water supply for prolonged use and foam concentrate supply through a pick-up tube from drums at ground level.		
1.1.1.6	The CFT shall be equipped with under truck nozzles for self-protection, particularly of the wheels. This should incorporate a pressure and flow regulator as explained in Para 1.13.16.1. The angle of the front nozzle shall be so adjusted to achieve performance as per 1.1.1. (b)-2b.		
1.1.1.7	The water tank, foam concentrate tank, monitor, and under truck nozzles shall have pneumatically controlled ball valves for operation and control from within the cabin. The hand lines should have pneumatic as well as manual control. All pneumatic control system shall be used with air supply at pressures available from the vehicle air brake system. The vehicle air brake shall be tapped so that a minimum air pressure required for the operating vehicle is available all the time and the pneumatic control fire operation actuates when the air pressure in the systems exceeds this minimum level. In case of any leakage in the pneumatic control system the vehicle operation shall not be adversely affected. Opening and closing valves to the monitor and to the pump shall be achieved through operation of pneumatic/electro-pneumatic controls from the cabin as well as from Panel Board. Panel boards should be provided on both sides of the CFT. Manual control should be provided for operation in case of failure in pneumatic control.		
1.1.1.8	The appliance shall be complete with all accessories and essential operating spares and tools. Where specific items are not required to be supplied suitable arrangement shall be made for stowage and secure location of such items to suit the CFT role. All locking and securing devices shall be of sufficient strength, reliability and shall be of quick opening and closing type for removal of accessories and other items without loss of time.		
1.1.1.9	All items where standard specification does not exist, best available commercial quality as approved by the inspection authority shall be supplied.		
1.1.1.10	The unit shall be designed to be as compact as possible complete with ease of accessibility to all sub systems for maintenance and repairs. The pump or foam making equipment and controls shall be so arranged that one man can operate foam concentrate, main water line, ground sweep/undertruck nozzle and monitor valves from the driver's compartment and foam concentrate, main water line and side delivery from the mid-ship mounted control panel.		

1.1.2 MATERIAL SELECTION AND TREATMENT	Accepted	Deviation
1.1.2.1 Material used for construction of the appliances shall be new, unused and free from all defects and imperfection that might affect the serviceability of the finished product. These shall be selected with a view to combine lightness with strength and durability.		
1.1.2.2 Materials used in the assembly and components shall be of high strength to weight ratio where practicable to effect saving in dead weight and thereby increase the payload capacity. Use of dissimilar Materials in contact with each other which tends towards electrolytic corrosion shall be avoided.		
1.1.2.3 The appliance is intended for use in tropical conditions with continuous high		

humidity and heat and also in coastal area. This fact shall be given full consideration while selecting material and for this reason use of rubber shall be avoided as far as possible. Wherever, it is unavoidable to use rubber the parts made out of it shall be readily available.		
1.1.2.4 The material used for superstructure should be non-corrosive and guaranteed against any sort of deterioration, deformation, ageing and corrosion for a minimum period of ten years. This being one of the important criteria for evaluation, the exact material to be used, its detailed technical specification and the relevant standards to which such material conforms should be clearly stated.		
1.1.2.5 Timber shall not be used in body construction.		
1.1.2.6 All parts, which form waterways or come into contact with foam concentrate shall be of non-corrosive material. All metal pipelines shall be hot dip galvanized after complete fabrication. All parts exposed to atmospheres shall be made of non-corrosive material. All ferrous fasteners shall be galvanized/chrome plated to avoid rusting over prolonged use.		
1.2 WEIGHTS AND DIMENSIONS*****	Accepted	Deviation
<i>The actual gross vehicle weight (weight of fully staffed, loaded and equipped vehicle) shall not exceed maximum permissible limit weight of chassis specified by the manufacturer.</i>		
The weight shall be distributed as equally as practical over the axles and tyres of the vehicle. The difference of weight between tyres of the any axle shall not exceed 5% of the average weight on tyre for that axle, and the difference in weight between axles shall not exceed 10% of the weight of the heaviest axle. Under no circumstances shall axle and tyre manufacturers rating be exceeded.		
The center of gravity of the vehicle shall be kept as low as possible under all conditions of loading.		
1.2.1 DIMENSIONS		
Dimensions and other performance requirements are as per table 1.1.1 (a) & (b)		
Overall height, length and width shall be kept to a minimum consistent with the best operational performance of the vehicle and the design concept needed to achieve this performance and to provide optimum maneuverability and facilitate movement on airports /city/highways. Also, the overall height, length and width and other chassis norms should comply according to Indian motor vehicle act.		
The vehicle shall be constructed such that a seated driver shall be able to see the ground 6 Metre ahead of the vehicle and minimum 15 degree above the horizontal without leaving seat. The vision in the horizontal plane shall be 90 degree on each side from the straight position on a full forward control.		
Adjustable rear view mirrors with a glass area of not less than 385 sq. cm. shall be provided on each side of vehicle. Each shall be provided with a minimum of 45 sq. cm area wide-angle convex mirrors.		
1.3 ENGINE	Accepted	Deviation
1.3.1 PERFORMANCE REQUIREMENTS		
1.3.1.1 The vehicle's engine shall be HSD (High Speed Diesel) driven, and have minimum 485 kW (650 hp), torque and speed characteristics to meet and maintain all vehicular performances specified in this standard. The vehicle's engine shall be certified by the engine manufacturer for the Crash fire tender (CFT) application.		
1.3.1.2 Fully laden vehicle shall consistently be able to accelerate maximum speed, as specified, with the engine and transmission at their normal operating temperature		

at any ambient temperature varying from 0 °C to 50 °C and at elevation up to 600 metres above mean sea level.		
1.3.1.3 The vehicle shall also be capable of ascending, stopping, starting and continued ascent on a 40% grade on dry pavement at a minimum speed of 1.6 kmph with extinguishing agents being discharged at maximum rated capacity from the turret.		
1.3.1.4 The engine emission levels shall be minimum Bharat Stage IV/ Euro IV norms for emission. In case of non-road engines, the emission levels shall be equal to or below than the prescribed limits for Bharat Stage IV/ Euro IV levels. The test certificate (EC Type/equivalent Approval Certificate), indicating emission levels, from official certification authority shall be submitted in the technical bid.		
1.3.1.5 The CFT weight (kg) to engine power ratio (kW) plays an important role, in achieving response time of two minutes, as specified in ICAO documents. The constructor of CFTs shall certify the achievable acceleration of 80 kmph in <28 seconds, during minimum 12 years of use of CFTs.		
1.3.2 ENGINE COOLING		
1.3.2.1 Engine shall be liquid cooled so that stabilized cylinder head and oil temperature remain within the engine manufacturer's prescribed limits under all operational conditions and all ambient temperatures between 0 ° (degree) centigrade and 50 °C.		
1.3.3 FUEL SYSTEM		
1.3.3.1 Fuel system shall qualify engine manufacturer's requirements and shall include fuel pump, fuel filtration and flexible fuel lines, well protected from damage, exhaust heat and ground fires.		
1.3.3.2 Accessible filtration shall be provided for each fuel supply line and a drain shall be provided at the bottom of the fuel tank.		
1.3.3.3 Gravity feed fuel tanks are not acceptable.		
1.3.3.4 Fuel tank capacity shall be not less than 300 liters.		
1.3.4 EXHAUST SYSTEM		
The size of exhaust system shall be such that undue back pressure is not generated and under no circumstances exhaust gases enter the cabin. The system shall be of high grade, rust resistant material.		
Exhaust system shall be designed so as to protect it from damage that could result from rough terrain. Tailpipe of exhaust system shall be designed to discharge upwards or to the rear of the vehicle and not towards ground nor towards panel operator.		
The exhaust system shall include a muffler to reduce engine noise.		
1.3.5 VEHICLE ELECTRICAL SYSTEM:		
1.3.5.1 The vehicle shall be provided with 12/24 volts electrical system and 24 volts starting.		
1.3.5.2 The electrical system shall have negative ground including alternator and voltage regulator. Alternator shall be at 100% of anticipated load at 50% engine speed, and shall be, of belt driven, by dual belts.		

1.3.5.3 The curb idle minimum-charging rate of the alternator shall be 30 Amps.		
1.3.5.4 Batteries shall be secured and well protected from against physical injury, vibration, and water sprays and engine and exhaust heat. When an enclosed compartment is provided for batteries, it shall be well ventilated and batteries shall be easily accessible for examination, test and maintenance.		
1.3.5.5 The circuits shall be so designed that at no stage of operation overloading, overheating or short-circuiting and fluctuation of voltage is experienced.		
1.3.5.6 A built in battery charger shall be provided on the vehicle to maintain full charge on all batteries. Grounded AC receptacle shall be provided to permit a drive away plug connection from external electric power supply to battery charger (220 volt with Indian compatible connector).		
1.3.5.7 An engine coolant/preheating device shall be provided as an aid to rapid starting and high initial engine performance.		
1.3.5.8 The electrical system shall be insulated, waterproofed and protected against exposure from ground fires.		
1.3.5.9 The effect of electromagnetic field of all electrical systems on Radio sets shall be suppressed so that it does not interfere with functioning of radio sets.		
1.4 VEHICLE DRIVE	Accepted	Deviation
1.4.1 Transmission of power from engine to wheels shall be through a torque converter and fully automatic transmission, having designed power input higher than output power of main engine, with provision of crawling as per Para 1.11.5.2, without application of brakes. The entire drive train shall be designed to have sufficient capacity to slip the wheels of the static loaded vehicle on surface having a coefficient of friction 0.8. A range of gears providing the specified top speed and a grade-ability of 50% shall be provided with sufficient intermediate gears to achieve the specified acceleration.		
1.4.2 A transmission cooling system shall be provided and designed so that the stabilized transmission oil temperature remains within the transmission conditions and at all ambient temperatures.		
1.4.3 The transmission shall be matched to the engine properly, and shall be approved by transmission manufacturer, for the CFT application.		
1.4.4 The provision of positive drive to each wheel by means of a fully locked drive line shall be required in order to maximize traction on low friction surfaces. Positive drive may be achieved either by the use of automatic locking and torque proportioning differentials, or may be manually selectable by the seated driver, while the vehicle is in motion, by use of a single control.		
1.4.1 All wheel drive on these vehicles shall incorporate a drive to the front and rear axles, which are engaged at all times during use. An interaxle differential shall be installed with automatic or driver selected means of differential locking.		
1.4.1 Front and rear axles shall have adequate capacity to carry the maximum		

imposed load under all intended operating conditions. The variations in axle track shall not exceed 20% of the tyre sectional width at rated load.		
1.5 SUSPENSION The suspension system shall be designed to permit the loaded vehicle to:	Accepted	Deviation
a) travel at the specified speeds over improved surface;		
b) Travel at moderate speeds over unimproved surface;		
c) Provide diagonally opposite wheel motion 360 mm above ground obstacles without raising the remaining wheels from the ground.		
d) Provide at least 50mm of axle motion before bottoming of the suspension on level ground;		
e) Prevent damage to the vehicle caused by wheel movement ; and		
f) Provide a good environment for the crew when traveling over all surfaces.		
1.5.1 RIMS, TYRES AND WHEELS		
1.5.1.1 Tyres shall be selected to maximize the acceleration speed, braking and maneuvering capabilities of the vehicle on paved surfaces without sacrificing performance on all reasonable terrains found within/ outside the airport boundary.		
1.5.1.2 Tyres size shall be suitable to optimize floatation under soft ground conditions. The lowest tyre pressure shall be compatible with the high-speed performance requirement as specified in table 1.1.1 (a) & (b).		
1.5.1.3 All wheels on the vehicle shall be of the single wheel type with all rims, tyres and wheels of identical size and same tread design.		
1.5.1.4 Rims, tyres, wheels, and inflation pressures shall be approved by the respective manufacturers as having sufficient capacity to meet the specified performance, and shall be certified for not less than 45 Kms of continuous operation at 100 Kmph (60 mph) at normal operating pressure.		
1.5.1.5 Size of tyre should be such to meet all vehicular performances.		
1.6 TOWING CONNECTIONS	Accepted	Deviation
1.6.1 Four large tow eyes or tow hooks, capable of towing the vehicle without damage, shall be mounted, two at the front and two at the rear of the truck and attached directly to the frame structure (chassis).		
1.7 BRAKES	Accepted	Deviation
1.7.1 The braking system shall feature service, emergency, and parking brake systems. Service brakes shall have power actuation through air, hydraulic or air over hydraulic. Expanding shoe and drum brakes or caliper disc brakes shall be furnished. A brake chamber shall be provided for each wheel and shall be mounted so that no part of the brake chamber projects below the axle. ABS (Anti-locking Brake System) braking system shall be provided. Brake System shall be certified to ECE-R13.		
1.7.2 Service brakes shall be of the all wheel type with split circuits so that failure of one circuit shall not cause total service brake failure, and shall be able to hold fully loaded vehicle on a 50% grade.		
1.7.3 The service brakes shall have stopping distances as per 1.1.1. (a) on a dry hard appropriately level road way, free from loose materials, and sufficiently wide roadway without any part of vehicle leaving roadway.		
1.7.4 The service brakes shall provide one power assisted stop with the vehicle engine inoperative, for the stopping distances specified above.		
1.7.5 An emergency brake system shall be provided which is applied and released		

by the driver from the cab and is capable for modulation, by means of the service brake control.		
1.7.6 The parking brake shall be capable of holding the fully loaded vehicle on a 20% grade without air or hydraulic assistance.		
1.7.7 BRAKES–AIR SYSTEM		
1.7.7.1 When the vehicle is supplied with air brakes, the air compressor shall meet the following criteria;		
1.7.7.1.1 The compressor shall be engine driven;		
1.7.7.1.2 The compressor shall have sufficient capacity to increase air pressure in the supply and service reservoirs from 586.1 kPa to 689.5 kPa (85 psi to 100 psi) when the engine is operating at the vehicle manufacturer’s maximum recommended revolutions per minute (rpm) in a maximum of 25 seconds.		
1.7.7.1.3 The compressor shall have the capacity for quick buildup from 0 kPa (0 psi) to release spring brakes, and this buildup in pressure shall be accomplished within 15 seconds.		
1.7.7.1.4 The compressor shall incorporate an automatic air drying system immediately downstream from the compressor to prevent condensation buildup in all pneumatic lines.		
1.7.7.2 Service reservoirs shall be provided. The total of the service reservoir volume shall be at least 12 times the total combined brake chamber volume at full stroke. If the reservoir volume is greater than the minimum required, proportionately longer buildup time shall be allowed using the following formula; <div style="text-align: center;"> $\frac{\text{Required reservoir capacity}}{\text{Actual reservoir capacity} \times 25}$ </div>		
1.7.7.3 Reservoirs shall be equipped with air pressure regulator, drain and safety valves.		
1.7.7.4 Provision for charging of air tanks by a drive away electrical connection used to power a vehicle mounted auxiliary compressor would be provided.		
1.7.7.5 A drive away air connection for charging of air tanks from an external air source shall be provided.		
1.7.7.6 Visual and audible low air pressure warning devices shall be provided. The low pressure warning device shall be visual and audible from the inside, and audible outside of the vehicle.		
1.7.7.7 Provision of pneumatic service outlets for inflating tyres shall be made from air compressor of CFT, with a high pressure charging tube of 30 mtrs. and nozzle. A separate provision of pneumatic service outlet for inflating pneumatic bags shall also be made from air compressor of CFT.		
1.7.7.8 Air leakage from pressure system shall not exceed 0.5 Kg./sq. cm. per hour so that at no stage the air pressure should reduce less than brake operating pressure in 8 hours.		
1.8 STEERING	Accepted	Deviation
1.8.1 The chassis shall be equipped with power assisted steering with direct mechanical linkage from the steering wheel to the steered axle(s) to permit the possibility of manual control in the event of power assist failure.		
1.8.2 The power steering shall have sufficient capacity to allow turning the tyres stop to stop with the vehicle stationary on a dry level, paved surface and fully loaded, with not more than 7 kg. pull on wheel.		

1.8.3 The wall-to-wall turning diameter of the fully laden vehicle shall be less than three times the vehicle length.		
1.8.4 Vehicle shall be designed for Centre/Off Centre Right/Right Hand Drive system so that driver's Left hand is free for operations controls.		
1.8.5 Vehicle shall be designed for Centre/Off Centre Right/Right Hand Drive system so that driver's Left hand is free for operations controls.		
1.9 CABIN	Accepted	Deviation
1.9.1 The cabin shall be mounted on the forward part of the vehicle and shall provide seating for 5 persons including Driver. The seating arrangement shall be; 2 adjustable seats and a long or separate seat (s) for three crewmembers with provision of stowage of fully assembled BA set suitably located to the backrest with quick release system so that it can be worn in running vehicle. In addition, there shall be instrument panel and equipment as specified without any hindrance to crew.		
<p>1.9.2 The cab shall meet the visibility requirements of 1.2.4.3. The windshield shall be shatterproof safety glass, and all other windows shall be constructed of approved safety glass. The cab shall be provided with wide gutters to prevent foam and water dripping on the windshield and side windows. There shall be enough space to keep and to enable the crew except driver to put on protective clothing and B.A. set while on way to a call. Four/two doors are to be provided to the cabin, which should be openable at 90 degree for easy ingress and egress of crew. In case of specially designed cabin with two doors the design should allow easy entry and exit of the crews in the rear row(s) without disturbing the crews of front row and a Centre/Off Centre Right/Right Hand steering system shall be provided.</p> <p>Keeping in view excessive width of CFT, positioning of steering system, and to ascertain better access to rear portion of CFT, a rear view camera with a monitor at the panel shall be provided. The cab design shall take into consideration the provision of ample space for the crew to enter and exit the cab and carry out normal operations while wearing full protective equipment. This design will be considered only in case of engine is not housed within the cabin.</p> <p>In case the turret (monitor) having manual controls above the cab roof is provided, the cab shall be designed with a quick-access passage to the turret (monitor). Time required for mounting of the crews into the cabin from close-up position shall be less than or equal to 10 Seconds.</p>		
1.9.3 The cab shall be weatherproof, and shall be fully insulated thermally and acoustically with a fire- resistant material. The cab may be of the unitized rigid body and frame structure type or it may be a separate unit flexibly mounted on the main vehicle frame. The cab shall be constructed from non-corrosive materials that provide lightest weight consistent with adequate strength to ensure a high degree of safety for the crew under all operating conditions including excess heat exposure, and in the event of a vehicle rollover accident. The material should also be guaranteed against any sort of deterioration, deformation, ageing and corrosion for a minimum period of twelve years.		
<p>1.9.4 INSTRUMENTS, WARNING LIGHTS AND CONTROLS</p> <p>1.9.4.1 The minimum number of instruments, warning lights and controls consistent with safe and efficient operation of the vehicle, chassis, and fire fighting system shall be provided. All chassis instruments</p>		

and warning lights shall be grouped together on a panel in front of the driver. All fire fighting system instruments, warning lights, and controls shall be grouped together by function so as to provide ready accessibility as well as high visibility for the driver as well as a crewmember sitting in the co-driver seat. Electronic controls have pneumatic and/or manual override wherever possible.					
1.9.4.2 All instruments and controls shall be illuminated, with back lighting to be used where practical.					
1.9.4.3 Groupings of both the chassis and fire fighting system instruments, warning lights and controls shall be easily removable as a unit or be on a panel hinged for back access by the use of quick disconnecting fittings for all electrical, air and hydraulic circuits.					
1.9.4.4 The following instruments, or warning lights, or both shall be provided as a minimum;					
a)	Speedometer/Odometer	k)	Water tank level Gauge		
b)	Engine(s) tachometer	l)	Foam tank level Gauge		
c)	Fuel level with audio warning	m)	Low air pressure warning		
d)	Air pressure	n)	Headlight beam indicator		
e)	Engine(s) temperature	o)	Trafficator light		
f)	Engine(s) oil pressure	p)	Hazard warning light		
g)	Voltmeter(s)	q)	PTO engagement light.		
h)	Oil temp. gauge light	r)	Pump hour meter		
i)	Transmission(s) oil temp.	s)	Water control Valve		
j)	Pump(s)pressure,				
1.9.4.5. The cab shall have all the necessary controls within easy reach of the driver for the full operation of the vehicle and the pumping system. The following cab controls shall be provided.					
a)	Accelerator	k)	Roof Turret controls		
b)	Parking brake control	l)	Bumper Turret Controls		
c)	Steering wheel, with directional signal control & horn	m)	Light switches		
d)	Brake pedal	n)	Windshield wiper and washer controls		
e)	Transmission range selector	o)	Heater-defroster controls		
f)	Pump control or selector/P.T.O.	p)	Master electrical switch		
g)	Foam control	q)	Engine start/stop control		
h)	Siren switch(es)	r)	Windshield deluge system switch.		
i)	Auxiliary agent control	s)	Water Tank Main valve control		
j)	Ground Sweep/ Under truck nozzle control	t)	Side delivery ON/OFF valve		
1.4.1 EQUIPMENT					
1.4.1.1 The following minimum equipment shall be provided in or on the cab.					
a)	Heater/defroster	j)	Interior lighting		
b)	Driver's suspension seat with vertical, fore and aft adjustment, with seat belt	k)	P.A. System with Microphone as per 1.19.1		
c)	Crew seats with individual retractable seat belts and grip hand rails.	l)	R.T. Set (VHF-AM) as per 1.16		
d)	Windshield washers appropriate for removing foam	m)	Self Contained Breathing Apparatus (SCBA) mounting bracket for crew members excluding driver.		
e)	Windshield wipers appropriate for removing foam	n)	Wind shield deluge system.		
f)	Siren	o)	Storage space for four Nos. of Proximity suit boxes in driver's cabin.		
g)	Horn	p)	Rear view camera with a monitor at the panel		

h)	Sun visors, interior transparent	q)	DEVS as per 1.9.6		
i)	Outside rear view mirrors as per 1.2.4.4				
1.9.6. DRIVER'S ENHANCED VISION SYSTEM					
1.9.6.1 Provision for future installation, for a driver's enhanced vision system (DEVS), in the cab, for CFT's position on a moving map display.					
1.9.6.2 Provision for future installation of Low Visibility Enhanced Vision System consisting of a FLIR camera, monitor, and controlling devices so as to provide assistance to operator in driving under low-visibility conditions, shall be made in the CFTs.					
1.9.6.3 The installation should not obstruct driver view or hamper any other CFT vehicle system including monitor system. The system also be installed without any extensive vehicle modification and should include a dedicated vehicle voltage spikes and surges.					
1.10 BODY				Accepted	Deviation
1.10.1 The body shall be constructed of non-corrosive materials that provide the lightest weight consistent with the strength necessary for off pavement operation over rough terrain and when exposed to excess heat. The material should also be guaranteed against any sort of deterioration, deformation, ageing and corrosion for a minimum period of twelve years. The body may be of the unitized with chassis rigid structure type or it may be flexibly mounted on the vehicle chassis. It shall also include front and rear fenders or wheel wells, body panels shall be removable where necessary to provide access to the interior of the vehicle.					
1.10.2 Access doors shall be provided for those areas of the interior of the vehicle, which must be frequently inspected. In particular, access doors of sufficient size and number shall be provided for access to;					
a)	Engine	b)	Foam proportioning system		
c)	Pump	d)	Battery storage		
e)	Fluid reservoirs	f)	Engine oil level indicator(dipstick)		
1.10.3 Suitable, lighted compartments shall be provided for storage of equipment and tools to be carried on the vehicle. Compartments shall be watertight and self-draining. The compartments shall not house any other equipment and shall be free from projections. (List of equipments is enclosed in Appendix-A).					
1.10.4 The working deck of the vehicle shall be adequately reinforced to permit the crew to perform their duties in the turret area, water tank top fill area, foam liquid top fill area, and in other areas where access to auxiliary or installed equipment is necessary.					
1.10.5 Handrails or bulwarks shall be provided where necessary for the safety and convenience of the crew. Rails and stanchions shall be strongly braced and constructed of a material which is durable and resists corrosion.					
1.10.6 Steps or ladders shall be provided for access to the top fill area. The lowermost step(s) may extend below the angle of approach or departure or ground clearance limits if it (they) is/are designed to swing clear. All other steps shall be rigidly constructed. All steps shall have a non- skid surface with at least 150 mm toe room. Lowermost step(s) shall be not more than 558					

mm above level ground when the vehicle is fully laden. Adequate lighting shall be provided to illuminate steps and walkways.		
1.10.7 A heavy-duty front bumper shall be mounted on the vehicle and secured to the frame structure.		
1.11 FIRE FIGHTING SYSTEMS AND AGENTS	Accepted	Deviation
1.11.1 Foam concentrate shall be used as primary extinguishing agent and dry powder (Class B and class C Type fire) as complimentary agent.		
1.11.2 Foam system shall be proportioning type system and the separate foam concentrate tank shall be provided on the vehicle.		
1.11.3 All components of foam system including liquid tank, piping fill troughs screens, valves and delivery connections shall be made of non-corrosive material.		
1.11.4 AGENT PUMP AND DRIVES		
1.11.4.1 The water pump shall be made up of corrosion resistant material/suitable alloy compatible with foam concentrate with stainless steel shaft suitable for use with Brackish Water and shall be single or multiple stage centrifugal type, designed for dependable emergency service. The vehicles tank and the piping shall be designed to eliminate entrapment of air. The pump shall also be supported with independent automatic priming system. It shall be accessible and readily removable for repair and maintenance. Drain valves shall be provided at suitable location for draining water from the pump casing and piping.		
1.11.4.2 While discharging foam solution, the pumping system shall be capable of discharging at a rate equal to or exceeding the requirements of the roof turret (Monitor), ground sweep nozzles, handline nozzles, and undertruck nozzles, discharging simultaneously at designed pressures.		
1.11.4.3 Pump shall be single/double/multistage and closed impeller type where impeller(s) is dynamically balanced to reduce end thrust. Appropriate seal shall be provided capable of running dry for minimum 01 minute without damage.		
1.11.4.4 The pump shall be mid ship mounted. Pump control panel shall be located on either side of appliance in addition to that positioned at the cab.		
1.11.5 PUMP DRIVE		
1.11.5.1 The pump drive shall permit operation of pump and simultaneous operation of vehicle and shall not be affected by transmission ratio or clutch operation. The design of drive system shall prevent damage and minimize lurching of vehicle during simultaneous operation and shall be capable of absorbing maximum torque delivered by engine to the pump under all speeds of engine and vehicle, without causing any stalling of engine and fluctuation of pressure.		
1.11.5.2 The drive shall permit discharge at rated capacity of pump during vehicular speed from 0 kmph to a minimum of 16.1 kmph in forward and 0 kmph to a minimum of 8 kmph in rearward direction. During shifting from forward to rearward drive, the pumping system shall maintain the preset discharge pressure.		
1.11.6 SUCTION AND DELIVERY CONNECTION		
1.11.6.1 The suction inlet and delivery outlets of the pump shall be fitted on the pump control panels side on both sides of the appliance.		

1.11.6.2	The suction connection shall be provided at suitable location in standard round thread of 125 mm diameter and shall be corrosion resistant. The location of suction inlet should be at lowest possible height preferably not exceeding one meter from ground level. The inlet shall be provided with Chromium plated brass blank cap.		
1.11.6.3	Delivery outlet connection shall be provided at suitable locations, operable from panel board in standard 63 mm female instantaneous standard couplings.		
1.11.7	PIPING, COUPLINGS AND VALVES		
1.11.7.1	All piping, couplings and valves shall be made of material, conforming to relevant international standard, to prevent corrosive and galvanic action.		
1.11.7.2	All valves shall be quarter-turn-type in manual operation and shall be easy in operation and free from leakage.		
1.11.7.3	All piping shall be tested for leakage at 50% above the maximum pressure developed by the pump in no flow condition.		
1.11.7.4	Arrangement should be made to prevent overheating of pump at zero discharge.		
1.11.7.5	A drainage system with collector tubing from the low points on pump and piping shall be provided, operable with quarter turn valve.		
1.11.7.6	All plumbing shall be reasonably accessible for maintenance purposes. Drain cocks shall be provided where necessary and controls for these shall be readily accessible and so arranged as to prevent the cocks from being opened by vibration. The direction in which the valve/cock opens/closed shall clearly be marked near each valve/cock.		
1.12 WATER TANK		Accepted	Deviation
1.12.1	Water tank shall have capacity as per 1.1.1(b). The tank outlets shall be arranged in such a way that Water tank percent of deliverable water is available as per 1.1.1 (b)-1.		
1.12.2	Tank shall be made of Glassfibre Reinforced Polyester (GRP)/ Glass Reinforced Plastic/ Polypropylene conforming to relevant international standard with suitable longitudinal and traverse baffles to prevent surging, which shall permit easy access for internal inspection.		
1.12.3	The tank shall be provided with hinged lid, a top filling hole with filter of 450 mm size and a drain hole at the bottom.		
1.12.4	Over flow piping shall be arranged in such a way that it releases pressure on overfilling without wasting water during vehicles maneuvers.		
1.12.5	The water tank shall be separate from crew compartment, chassis, engine, and easily removable, and shall be mounted on chassis in a manner that the torsional strains during movement are minimum.		
1.12.6	Two external tank fill connection shall be provided both side near operating panel, in standard 63 mm instantaneous coupling, with strainers and ball valve. The filling connection inside the tank shall discharge water just below the upper plate of the water tank.		
1.12.7	A direct filling (pump to tank using own pump) connection shall also be provided to fill the tank from open source of supply and shall be sized so as to fill the tank at 5 bar pressure.		
1.12.8	Arrangement for lifting the tank without damage should be provided for repair and maintenance etc.		
1.12.9	Main tank valve shall be operated from cabin as well as from control panel. In addition manual override shall be provided for tank opening valve at side control panel. This valve shall have accessible control.		
1.12.10	The tank shall be separate and distinct from the body flexibly mounted on		

chassis to receive minimum torsional forces during vehicles movements and easily removable as a unit and should be suitably baffled to prevent surging.		
1.13 FOAM TANK	Accepted	Deviation
1.13.1 Foam concentrate tank shall have usable capacity of not less than 1200 litres or sufficient for more than two refills for water tank.		
1.13.2 Tank shall be made Glassfibre Reinforced Polyester (GRP)/ Glass Reinforced Plastic/ Polypropylene conforming to relevant international standard.		
1.13.3 The tank shall be separate and distinct from the body flexibly mounted on chassis to receive minimum torsional forces during vehicles movements and easily removable as a unit and should be suitably baffled to prevent surging. (The water and foam tank can be together with compartments or separate as per standard design of the manufacturer)		
1.13.4 The manhole of the tank size not less than 250 mm size shall be used for foam concentrate filling and shall be clearly marked 'FOAM CONCENTRATE'. The tank shall be vented adequately to allow rapid and complete filling without the build-up of excessive pressure and to allow emptying of the tank at the maximum design flow rate without danger of collapse. The vent outlets shall be directed to the ground to prevent spillage of foam concentrate on vehicle components.		
1.13.5 The foam concentrate draw off tube shall be positioned in such a manner that foreign matter or sludge shall not pass into the compound lines. The draw off tube shall be fitted with gauge strainer of corrosion resistant material.		
1.13.6 Drain hole at the bottom of sump and a liquid induction connection shall be provided in the tank.		
1.13.7 Filling hole with a trough on top shall be connected with a pipe reaching at the bottom to avoid aeration in the liquid.		
1.13.8 FOAM FILLING:		
1.13.8.1 The tank fill connection(s) shall be provided in a position where it can be reached easily from the ground to allow the pumping of foam-liquid compound into the storage tank. The connection(s) shall be provided with strainers of 6.4 mm mesh and shall have check valves or shall be constructed so that foam is not lost from the tank when connection or disconnection is made.		
1.13.8.2 Provision of foam concentrate filling from open source at ground level by foam concentrate filling pump shall be available with independent power drive.		
1.13.9 All pipe lines shall be made of non-corrosive material and dissimilar materials that produce galvanic corrosion shall not be selected. Where plastic piping is used, it shall be fabricated from unplasticised resins unless the plasticizer has been provided not to adversely affect the performance characteristics of foam.		
1.13.10 All foam concentrate piping shall be adequately sized to permit flow and shall be arranged to prevent water entering the foam tank.		
1.13.11 Automatic foam concentrate proportioning arrangements shall be provided with 3%, 6% and 8% induction ratio, for varying discharge rates and shall not require frequent calibration.		
1.13.12 FOAM PROPORTIONING SYSTEMS.		
1.13.12.1 The foam concentrate proportioning system shall provide a means of controlling the ratio of foam concentrate to the quantity of water in the foam solution being discharged from all orifices normally used for aircraft fire-fighting operations.		
1.13.12.2 The proportioning system shall be sufficiently accurate to provide for the discharge of finished foam concentrate within the range		

	specified in Standard for Evaluating Aircraft Rescue and Fire-Fighting Foam Equipment.		
1.13.12.3	Control shall be provided at suitable location to open the foam concentrate tank from cabin as well from control panel operated pneumatically with manual override. This valve shall have accessible control.		
1.13.13	ROOF TURRET (MONITOR)		
1.13.13.1	One power driven Roof Turret (Monitor) shall be provided on the rooftop of cabin so that it can be operated by a member of crew from within the cabin of CFT. The system should be capable of being operated manually from within the cabin or rooftop in case of failure in power assisting mechanism. Where equipped with a turret (monitor) having manual controls above the cab roof, the cab shall be designed with a quick-access passage to the turret (monitor). The monitor should have dual flow rate i.e. 100% and 50% with a suitable selecting mechanism at the monitor control and easily operable by the operator.		
1.13.13.2	Monitor shall be capable of traversing 270° horizontally and elevating not less than 45° from horizontal axis and depression of 15° to deliver foam at ground level not more than 12m ahead of the vehicle. The locking position shall be facing front side. The monitor should not loose control in case assistance is lost during the operation and should remain in operation at same position awaiting manual operation.		
1.13.13.3	Monitor shall be capable of discharging total rated water tank quantity in not more than two and half minute and shall have a means provided for deflective pattern of foam dispersal. The discharge rate of monitor shall not be less than 3000 L/min at maximum rated pressure with expansion ratio of minimum 1:8 by using foam concentrate.		
1.13.13.4	Range of throw shall be as per 1.1.1 (b) 2 - roof turret discharge.		
1.13.14	HAND LINES		
1.13.14.1	In addition, one first aid hose reel connection shall also be provided with ≥30 mtrs rubber hose with a pistol grip type nozzle (which can be used as spray and hollow jet), with discharge capacity of 230 L/min at operating pressure..		
1.13.14.2	Each side line shall have minimum discharge capacity of 450 L/min at 7 bar pressure on FB 10 EX branch with an expansion of not less than 8 and minimum throw of 25 mtrs when either, all foam hand lines are used simultaneously (with monitor not operating) or two of them are used in combination with monitor.		
1.13.14.3	Complementary agent (Dry Powder) hand lines shall have open/close nozzle discharge rate of more than 2.5 kg/second with 7.5 mtrs range. The nozzle should be made of non-ferrous metal or stainless steel.		
1.13.14.4	An automatic Pressure & Flow regulator shall be provided for the sideline to enable the monitor to operate at the optimum pressure to give rated capacity for delivery, throw and expansion etc while maintaining the pressure of 7 bar pressure at the side line delivery. A bypass valve operable by 90° turn of a lever shall be provided to the automatic pressure regulator to facilitate availability of higher delivery pressure and flow whenever needed.		
	1.13.14.4.1 All the ground sweep and under-truck nozzles.		
	1.13.14.4.2 Two side delivery		
1.13.14.5	CFT shall have two side lines on each side, operatable from cabin and panel both with manual override.		
1.13.15	FOAM CONCENTRATE QUALITY		

1.13.15.1 Turret (Monitor) and hand lines shall be capable of producing foam from foam concentrate solution in the specified ratio of 3%, 6% & 8%.		
1.13.6 BUMPER TURRET		
1.13.6.1 An power driven bumper turret shall be provided. Flow rate shall not be less than 950 L/min. The throw range shall not be less than 46 metres. An aspiration barrel and deflector shall be provided. A foam expansion of not less than 1:8 with foam concentrate shall be achieved. The monitor shall be electronically controlled by a joystick within reach from driver and co-driver.		
1.13.6.2 An automatic oscillating mode shall be provided, horizontal and vertical range shall be programmable. When bumper monitor is in operation simultaneously with roof monitor, roof monitor flow rate shall automatically reduce to 70% of full flow rate.		
1.14 PRIMER	Accepted	Deviation
A suitable primer shall be provided along with pump, which shall have both automatic and manual engagement/ disengagement provisions.		
1.14.2 Primer shall be capable of priming a suction column with 7.3 mtrs lift in less than 30 second with indicator, with 125 mm suction hose diameter.		
1.15 LIGHTS AND ELECTRICAL SYSTEM	Accepted	Deviation
1.15.1 Following electrical gadgets shall be provided:		
1.15.1.1 Siren of 95 decibel sound output at 100 feet ahead and not less than 90 decibels at 90 degree either side at a distance of 100 feet, siren shall be mounted on cabin roof top and shall be fully protected from foam spills, rain water, dust and any damage due to monitor rotation.		
1.15.1.2 A flashing red and revolving blue beacon on cab roof top		
1.15.1.3 A horn.		
1.15.1.4 Headlights with selective pattern for light beams.		
1.15.1.5 Dual tail lights and stop lights		
1.15.1.6 Signal lights for turning at four corners of vehicles with visual and audible signals.		
1.15.1.7 Spot light, at both ends of windshield glass, hand adjustable with 152 mm diameter.		
1.15.1.8 Adequate reflector and markers to indicate overall dimensions of vehicle.		
1.15.1.9 One reverse light with audible warning at the rear of vehicle		
1.15.1.10 Panel lights, top deck light, cabin lights, engine compartment lights, tools and equipment compartment lights, shall also be provided.		
1.15.1.11 Two inspection lamps shall also be provided and provision of additional connection to use these lamps shall be made in various compartments.		
1.15.1.12 Two fog lamps. These shall be low mounted in front of the appliance.		
1.15.1.13 Equipment storage compartment lights shall glow on opening of the door/shutter, even when the ignition switch is turned off.		
1.15.2 All appropriate lights and gadgets detailed above shall be operable from driver's cabin.		
1.15.3 Visual indication for different functions of engine, P.T.O. pump, and pneumatic circuits by means of lamps in driver's cabin shall be preferred.		
1.16 RADIO TELEPHONE (R.T.)	Accepted	Deviation

<p>1.16.1 One VHF Radio telephone operable on frequency range as per Utter Pardesh Fire Service and another operable on Frequency Modulation (FM) as per DGCA, India will be a self-contained transmitting/receiving set, with Transmitting power of approximately 5 watt unmodulated and intrinsically safe. The equipment shall be suitable for use in all weather condition and shall be provided at suitable location in cabin. It should be operable at 12V/ 24V power supply system of CFT and should be made of waterproof construction. The RT set should also have an adjustable head set in addition to the speakers. Sockets for connecting the headset to the R T Set should be provided at the mid-ship panel.</p>		
<p>1.16.2 Adequate spares for 12 years and service/repair and spares manual along with circuit diagrams should be provided. All manuals and diagrams should be in English language with standardized international symbols. The set shall be suitably mounted to resist vehicles vibration and suppress engine noise or any other vehicular electromagnetic induction.</p>		
<p>1.16.3 The system protection fuse shall be located in an easily accessible location for quick replacement.</p>		
<p>1.17 DRY CHEMICAL SYSTEM</p>	Accepted	Deviation
<p>1.17.1 One unit of 250 kg dry chemical powder (foam compatible) shall be provided, using dry nitrogen as propellant gas so as to achieve performance as specified in 1.1.1(b). The dry chemical container shall be constructed in accordance with the ASME Boiler and Pressure Vessel Code, Section 8, or equivalent, and shall be so stamped.</p>		
<p>1.17.2 All piping and fittings shall conform to the appropriate ASME, or equivalent, code and shall be designed to withstand the working pressure of the system. The design of the piping and valves shall provide the desired flow of gas into the system and the minimum amount of restriction from the chemical container(s) to the hose connection. Where more than one hose line is provided, piping and fittings shall be sized and designed so that there is equal flow to each line, regardless of the number of lines placed in operation.</p>		
<p>1.17.3 Nitrogen cylinders shall be certified from Department of Explosive (Government of India) and shall have universal filling connections. The cylinder shall be manufactured in the year of delivery and have clearance from Explosive Department (PESO), Nagpur (India) for re-filling, storing and operation.</p>		
<p>1.17.4 Provisions shall be made for purging all piping and hose of dry chemical after use without discharging the dry chemical remaining in the dry chemical container(s). Provisions also shall be made for the depressurization of the dry chemical container(s) without the loss of the remainder of the dry chemical. A pressure gauge shall be provided that indicates the internal pressure of the agent storage container(s) at all times.</p>		
<p>1.17.5 A means of pressure release in situation of over pressure shall be provided with filling opening and suitable tight fitting cap.</p>		
<p>1.17.6 Standby one No. of Nitrogen cylinder shall be provided.</p>		
<p>1.18 Provision for storage of additional extinguishing media in future shall be made.</p>	Accepted	Deviation
<p>1.19 OTHER EQUIPMENT</p>	Accepted	Deviation

1.19.1 Public Address (P.A.) equipment, battery operated, with wireless and cable connected microphone fitted in the cabin and loudspeaker fitted on the rooftop of cabin capable of being operated from cabin. PA system receiver should have a provision to connect one wireless microphone and one microphone with cable connection. The wireless microphone shall be of FM (Frequency Modulation) with a range of minimum 100 Metres. All PA system receivers shall be tuned to the frequency of wireless microphone.		
1.19.2 A spare battery charger.		
1.19.3 Instruction book, spare parts catalogue and repair manual.		
1.19.4 All tools and accessories/equipment as per <u>Appendix –A</u>		
1.19.5 Event (Electronic) Data recorder		
1.19.5.1 The vehicle should have a real time event (electronic) data recorder to record the performance parameters like vehicle speed, gear position, PTO on/off, engine temperature, engine RPM etc. The recorder shall be tamper proof with provision for data transfer to PC with suitable software for data interpretation.		
1.20 TESTS AND INSPECTIONS – as per Annexure- IV.	Accepted	Deviation
1.21 MANUFACTURE CERTIFICATE AND GUARANTEE	Accepted	Deviation
1.21.1 Manufacturer shall provide a certificate for the appliances conforming to all specifications.		
1.21.2 A guarantee shall be furnished by manufacturer for a period of 24 months for material workmanship and smooth functioning of vehicles from the date of commissioning at consignee’s place and rectification of fault within maximum 7 days from reporting.		
1.21.3 The manufacturer shall provide two maintenance services or more as recommended by OEM, per year, during guarantee period.		
1.21.4 The manufacturer shall be responsible for replacing any parts, which may become unserviceable due to the use of defective and sub-standard materials and bad workmanship during the period of guarantee free of all charges.		
1.22 MARKINGS	Accepted	Deviation
Following markings shall be made on the body of the vehicles:		
(a) Manufacturer’s name and trade mark		
(b) “Uttar Pradesh Fire Service”.		
(c) Year of manufacture		
(d) Engine and Chassis numbers		
(e) Job or Serial No.		
(f) Capacity of pump, water tank, foam tank		
(g) Pump serial number		
(h) Chassis supplier name and country of origin		
(i) Luminous strips to be provided at the rear and both sides of the vehicle		
1.23 PRODUCT SUPPORT	Accepted	Deviation
Manufacturer shall ensure:		
(a) Availability and supply of spares at short notice, for at least 12 years, after expiry of guarantee.		
(b) Induction Training for selected staff at consignee place or mutually agreed place at supplier’s cost.		
(c) Any other Technical helps that may be required at the time of Induction.		
(d) After sales service.		
(e) One set of workshop major repair and maintenance tools required for CFT shall be supplied for each consignee.		
1.24 MANUALS	Accepted	Deviation

The following literature/manuals along with soft copy shall be provided (one set with each equipment/CFT). All manuals should be in English language:		
(a) OPERATION MANUAL This manual should contain technical description of the equipment with lay out drawings, illustration and performance capabilities with instruction to user for commissioning the equipment for use, and use operation with limitations and precautions to be observed normal maintenance and field repairs, lubrication schedule with grades of lubricants to be used, fault finding guide, storage instructions and warning plates against possible wrong use.		
(b) PARTS MANUAL This manual shall contain fully exploded and illustrated details of the entire Chassis, superstructure and all carried sub-assemblies, suitably grouped for easy identification of each and separately demandable spare for replacement as required, will include details of brought out items with part numbers of source of supply.		
(c) WORKSHOP REPAIRS MANUAL The manual shall contain fully illustrated instructions on repair and overhaul of all items supplied against this specification including proprietary items fitted/supplied with details of fitment tolerances, special tools to be used, procedure for dismantling major assemblies.		
(d) A complete set of general arrangement drawings showing layout of equipment, piping and fluid flow controls, electrical and structural design shall be submitted along with the CFT.		
(e) Price list for complete range of spares/components for Chassis and Superstructure with current price list for future requirement on FOB basis for imported spares and Ex-factory for indigenous spares as the case may be.		
1.25 ITEMS SUPPLIED IN INDIA	Accepted	Deviation
Items required as per Appendix-A under category A-Items supplied in India shall be conforming to Bureau of Indian Standards (BIS) wherever the standards exist or from works of supplier. All other equipment and accessories forming part of superstructure fabrication shall be provided at the place of fabrication.		
1.26 MANUAL OVERDRIVE FOR POWER ASSISTED OPERATION All power assisted controls and operation should have suitable manual operation to ensure the operation in case of any failure in the power assisting mechanism. Such arrangements shall be easily accessible to the operator facilitating quick changeover.	Accepted	Deviation
1.27 Training :	Accepted	Deviation
1.27.1. Supplier has to arrange training for the personnel of end-user in handling , operation and maintenance of the above equipments. The training period shall consist of minimum two weeks at place notified by end-user.		
1.27.2. The training shall cover operation ,handling and maintenance of all the tools and equipment and gears listed under this tender.		
1.27.3. All the expenses towards the training shall be in the cost of tender in addition to training material and the costs of tools and equipment and consumable required at the time of training. The training programme shall be chalk out in consultation with end-user.		
NOTE: Bidder must give detailed technical information in the Questionnaire (Annexure- V) enclosed regarding the ACFT quoted by them. Additional information, if any, can also be furnished.		

GENERAL SPECIFICATIONS

A. Supplier's Tender Drawing

The bidder with bid shall submit 2 copies of typical Cross Selection Drawings showing the salient features of the equipment mounted on specified vehicles chassis and accessories offered together with sufficient details to enable the general arrangement of the vehicles and equipments to be determined and these shall be called suppliers tender drawings. One set of these drawing shall accompany each copy of the tender.

B. Approved Drawings

The bidder shall, within two weeks of acceptance of his bid, submit for the approval of the end-user, three copies of dimensioned drawings of each item of plant. These drawings having been corrected or amended as necessary to the end-user's approval shall become the Approved Drawings to be used for the performance of the works.

Within fourteen days of the issue of the notice of the approval of the drawings, the bidder shall supply to the end-user, five further copies of each approved drawings one of which shall be signed by the bidder. Copies of such drawings shall be made available by the bidder for inspection at his works.

C. Instruction Manual

The bidder shall send three bond copies of an Instruction Manual, Workshop Manual and Spare Parts catalogue to the end-user on or before the delivery of the plant. The manual shall include details of all types of equipments and accessories under the contract.

The Instructions Manual shall be approved in draft from initially by the end-user and the Workshop Manual shall contain information necessary for dismantling and reassembling each item of plant and maintenance instructions including charts showing lubrication, checking, testing and replacement procedure to be carried out periodically. All lubricant shall be listed. The spare parts catalogue shall contain list of spare parts, Material Specification, Spare Parts drawings, part number, quantity and price. The manuals shall be printed and bound in Twin lock binders.

D. Compliance with Standard Specifications

Where reference is made in the specifications to Indian Standards (hereinafter abbreviated to 'BIS.') issued by the Bureau of Indian Standards, of Manak Bhavan, 9, Bahadur Shah Zafar Marg, New Delhi-1, or British Standard Specification (hereinafter abbreviated to 'B.S.')

issued by the British Standard Institution of 2 Park Street, London WI or to any other standard, it shall be to the latest revision of that standard at the tendered date.

All details, materials and equipments supplied and workmanship performed, in regard to which specifications or standard have been issued by the Indian Standard Institution shall be supplied and performed in accordance with such specifications or standards unless otherwise specified. The approval of the other standards may be considered if in the opinion and discretion of the end-user. they are equivalent to or better than the above referred specifications. Whether the relevant standards provides for the furnishing of a certificate to the end -user on request, starting that the materials comply in all respects with the standard, the supplier shall obtain the certificate and forward, it to the end-user.

E. Design

The supplier shall design the plant to satisfaction of the end-user and in accordance with the Specification. The design shall be in accordance with best modern practice and shall be such

as will facilitate inspection, cleaning, lubrication and repair to ensure satisfactory operation under all service conditions. The plant or any part thereof may be of the standard design provided that such design is generally in accordance with the Specifications. The design calculations as warranted under the EN 1777 -2010E or latest shall be submitted to the end-user.

Approval by the end-user of the bidder's design or drawings shall not relieve the bidder of any of his obligations or liability under the contract except in so far as provided for by the Conditions of Contract.

F. Materials General

The units and accessories shall be manufactured from materials specified in the clauses appropriate to the particular item except where the bidder at the time of tendering:

- (a) draws particular attention to the deviation from the specification and
- (b) substantiates his claim that the material offered is equal or superior to the material specified and such deviation has been accepted in writing by the end-user

Where the material to be used has not laid down in this specification, the supplier shall use only those materials in such composition as have been proved in actual service to be most suitable for the particular purpose.

Care shall be exercised in the selection of various types of metals for use in the units and accessories to reduce the effect of bimetallic corrosion to the minimum.

G. Grade of Materials

Materials used shall be of the best quality suitable for use in the climatic conditions given in **Appendix I** and road conditions in Lucknow, India given in **Appendix II**.

H. Workmanship

Workmanship and general finish shall be of first class commercial quality and in accordance with best workshop practice.

All similar items of the plant and their component parts shall be completely interchangeable. Spare parts shall be manufactured from the same materials as the originals and shall fit all similar items. Machining fits on renewable parts shall be accurate and to specified tolerance so that replacements made to manufacturer's drawings may be readily installed.

All parts which can be worn or damaged by dust shall be totally enclosed in dust proof housing.

I. Protective Coating

The bidder shall apply any internal and external protective coating that is deemed necessary bearing in mind the atmosphere conditions. Full details of all coatings shall be submitted with tenders.

J. Lubrication

The bidder shall submit full details of the method of lubrication to be employed for plant to be supplied. The bidder shall supply all necessary lubricating equipment, including sufficient oil and other lubricants of each required grade for setting the plant to work.

K. Spare Parts

The supplier shall give undertaking to supply spare parts and float units for next 10 years of operation of vehicles and equipments.

L. Tools

A complete set of any necessary special tools, in a completely new and unused conditions, shall be supplied by the bidder to enable any erection, dismantling or testing to be carried out any part of the plant whether of an electrical, mechanical or other nature. These tools shall be as described in the Scheduled of Tools.

M. Protection and Packing for Transportation

Before any plant is dispatched from a manufacturer's works, it shall be properly prepared and packed and the notice shall be given to the end user. at least fourteen days before for the preparations to commence.

Cases obtaining spare shall not weigh more than 100 kg. gross. All crates, packages etc. shall be clearly marked with a water proof material to show the weight where the weight is bearing and where the slings should be attached, and shall have an indelible identification mark relating them to the packing lists.

TERMS AND CONDITIONS

You are requested to submit your most competitive offer for supply of 02 Nos. Crash Fire Tenders to Lucknow, Uttar Pradesh. Bids against this tender shall be received only electronically through the e-procurement Portal of NIC (eprocure.gov.in/eprocure) with following terms and conditions :-

- ❖ Bidder offering to supply plant shall be the manufacturer of the item tendered and should have supplied at least 10 Nos. of Tendered items anywhere in world during last five years.
- ❖ That the Bidder has the financial, technical and production capabilities necessary to fulfill the Contract. The bidder will have to furnish a certificate regarding its capabilities.
- ❖ In the case of Bidder is not doing business in India, the Bidder shall be represented by an agent based in India. The representative shall undertake maintenance, repairs and spare parts stocking obligations as prescribed by the Conditions of the contract and /or Technical Specifications.
- ❖ The manufacturing company should have valid ISO 9001-2000 or latest certificate for the manufacturing facilities and processes.
- ❖ The bidder should have all approvals of the plant as per technical specification which have attached with tender.

“No bids shall be accepted in hard copy or in any other form.”

For details, please visit websites www.stc.gov.in or www.tenders.gov.in or www.eprocure.gov.in. Interested bidders must submit their bids online using e-Procurement portal of NIC (eprocure.gov.in) in the prescribed formats along with all necessary documents and information requested herein.

Any further Corrigendum/ Addendum to the tender documents will be uploaded by STC only on website i.e. www.stc.gov.in, www.eprocure.gov.in or www.tenders.gov.in and no press advertisement shall be published for the same.

Your offer should include the following :-

- 1) **FOB Price, CIF Indian Port & FOR Lucknow, Uttar Pradesh price as per Price Bid Format Attached (Schedule C).**

A) In case of Imported Equipment:-

In case of goods being offered in foreign currency, the tenderer should give the CIF Indian port Prices, Rate of Import Custom Duty on assessable value for the item quoted and Proof of rate

of Import Custom Duty, Custom Clearance charges, Inland Insurance & Transportation charges upto Lucknow, Uttar Pradesh etc. in the Price Bid Format as per Schedule 'C'. Break-up of insurance, airfreight upto Indian Port, Custom Clearance charges, Inland Insurance and Transportation Charges from Indian Port to Lucknow, Uttar Pradesh are to be given.

The documents for

- (i) Authorization in favour of nominated custom clearing handling agent of the supplier,
- (ii) Payment of import custom duty (if and as applicable) (upon receipt of copy of Bill of Entry filed with customs) shall be provided by STC.

B) In Case of Local Supplies:-

The tenderer should give the FOR Lucknow, Uttar Pradesh Prices giving the break-up of local taxes & levies in the Price Bid format as per Schedule 'C'. All rates will be firm and fixed. The rates quoted must be for delivery at consignee stores at Lucknow, Uttar Pradesh including packing, forwarding, loading, transportation, insurance, unloading, stacking, and all incidental charges, octroi and taxes. The delivery of the goods shall be given at the consignee stores at Lucknow, Uttar Pradesh

- 2) **Country of Origin** (Certificate Duly certified by Chamber of Commerce of the exporting country to be submitted at the time of shipment of goods)
- 3) **Delivery Schedule** – Delivery period should be clearly mentioned in the quotation and should not be later than 12 weeks from the date of receipt of Order.
- 4) **Payment terms** – We operate on 100% TT Transfer/ Letter of Credit Basis. In case of LC, LC shall be established for 100% order value and 90% (Ninety Percent) payment under LC will be released against submission of documents pertaining to dispatch of goods along with satisfactory certificate of pre-dispatch inspection including Load Port Inspection Certificate issued by Third Party Inspection Agency and balance 10% (ten percent) payment shall be payable after satisfactory installation/demonstration of the goods at the premises of end-user department and receipt of certificate for same from end user department. In case of Letter of Credit, All bank charges (including LC confirmation charges) payable outside India would be to Seller's account. Pre-delivery inspection of the goods will be undertaken by the end-user department or their nominee, at the manufacturer's facilities.

I. 90% (Ninety Percent) Payment under the letter of Credit will be available against presentation of the following documents and also on proof of evidencing shipment:-

- a. Complete set of Clean on board Bill of Lading and marked Freight Prepaid.
- b. Signed invoice in three copies giving letter of credit No., Order No. and date respectively.
- c. Certificate of satisfactory pre-delivery inspection of goods, at the manufacturer's premises, from the end-user department or their nominee.
- d. Certificate showing goods of **ORIGIN** issued by Chamber of Commerce or Equivalent Body in Duplicate.
- e. Specification and Packing list – three copies.
- f. Manufacturer's guarantee certificate (As per STC's order) – three copies.

- g. Certificate from the manufacturer to the effect that the goods conform to the manufacturers standards and are new and free from any latent or patent defects and are strictly as per Specifications mentioned in Tender No.STC:GID:433:2015-16 Dated 15.12.2015
- h. Insurance Policy/ Certificate one original and two copies.
- i. Copy of FAX MESSAGE (Fax No.00-91-11-23701126 / 23701123) marked to General Imports Division, sent by the seller within 72 hours of issuance of Bill of Lading to buyer notifying the details of the Bill of Lading, Goods freighted, total invoice value, Name of the Vessel, loading port and date of departure of vessel and expected time of its arrival at Mumbai, Indian port.
- j. Certificate by the seller that the freightment consists of complete requirement as per list of goods given in the Annexure-I enclosed with the order.
- k. Certificate from the seller that one set of non-negotiable documents mentioned under (a) to (j) above has been airtailed/couriered to the following within 10 Days of departure of the vessel in addition to one set of non-negotiable document sent with the vessel to:
 - a) STC;
 - b) End-user department

II. Balance 10 (Ten) Percent payment under the LC shall be released/payable only after receipt of certificate of satisfactory installation, demonstration & training of goods to be issued by the end-user department, after receipt and examination of goods at their premises in India.

5. **Validity of Price** – Your offer to be valid for acceptance by us up to 6 months from the Tender closing date. Bids which are having validity for a shorter period may be rejected.

6. Delivery Instructions:

Before dispatch, the plant shall be adequately protected by painting or by other suitable means for the whole period of transit and storage in a tropical humid climate prior to use, against corrosion and incidental damage including the effects of vermin, strong sunlight, rain, high temperature and humid or salty atmosphere or sea spray. The supplier shall be held responsible for the plant being so protected as to ensure spray. The supplier shall be held responsible for any consequential damages during the transit period. Trans-shipment of plant shall not be permitted.

7. Port of Shipment.

8. Supplier's Bank Details:

9. Warranty conditions :-

The warranty shall remain valid for 24 months after the plant has been successfully commissioned at the final destination, unless specified otherwise. The Supplier shall ensure that the plant supplied is new, unused, of the most recent or current models and incorporate all recent improvements in design and materials unless provided otherwise. The Supplier further warrants that the plant supplied shall have to be free from defect arising from design, materials or workmanship or from any act or omission of the Supplier, that may develop under normal use of the supplied plant in the conditions prevailing in the country of final destination. **This shall include replacement of parts, as a result of normal wear and tear**

and labour as well.

- 10) The detailed list of consumables and spares with CIF, Mumbai, India, required for smooth functioning of the plant for 10 years, shall also be submitted along with tender offer.

11) Pre-bid meeting:-

In case any bidder requires any clarification on the specification, test parameters, quality assurance, etc., bidders can feel free to raise their query on or before the pre-bid meeting date given in the tender notice. Such queries may be raised by sending email to akhil@stc.gov.in and such emails must contain STC's tender reference number. The replies to the queries will be offered to tenderers who choose to be present in the pre-bid meeting. The pre-bid meeting is scheduled to be held on 04.01.2016 (1130 hours) at Uttar Pradesh Fire Services Headquarters, Indira Bhawan, Ashok Marg, Lucknow, Uttar Pradesh.

This pre-bid meeting will be arranged only if there is a specific request from any of the prospective bidders one week prior to the scheduled meeting. However, prospective bidders are advised to visit STC's web site for any changes in the schedules of the pre-bid meeting.

12) Schedule to Tender :-

- a) Closing date & time for receipt of Offer : 18.01.2016 at 03.00 PM**
- b) Opening of Offers , Time & Date :18.01.2016 at 03.30 PM**

13) Offers invited under Two Bid System :

All Bidders are required to submit their item-wise offers in two cover/ part i.e. Technical Bid Part and Price Bid Part. .

A. Following documents are required to be submitted as part of Technical Bid Part.

1. Complete set of STC's Tender Document including all the Annexures duly signed and stamped on each page as token of your acceptance of all terms and conditions of tender without any deviation.
2. **A Clause-by-clause compliance on the mentioned Technical Specifications, demonstrating the plant and services substantial responsiveness to those specifications or a statement of deviations and exceptions to the provisions of the Technical Specifications.** Non submission of compliance statement will result in outright rejection of the offer submitted.
3. The manufacturing firm should have experience in the field of manufacturing/ fabricating of Crash Fire Tenders (CFTs) with water tank capacity of 4500 litres or more in the last 7 years. Copy of registration with appropriate authority/proof of manufacturing & supply of CFTs in the last seven years shall be submitted.
4. Purchase orders for supply of not less than 10 Nos. Crash fire tenders.
5. The purchase orders for supply of CFTs shall include at least 03 Nos. CFTs having fully loaded vehicle performance, as per Technical Specifications and performance parameters equal or more than that specified Technical Specifications.

6. The manufacturing firms shall certify, submitting a notarized undertaking, that it has production capability to manufacture/deliver at least 10 Nos. Crash Fire Tenders (CFTs), meeting technical specifications, in a single year.
7. Registration certificate of the company, Sales tax / VAT registration certificate (as the case may be applicable).
8. Latest bank solvency certificate for Rs. 500 Lacs (USD 110000).
9. Documentary evidence showing that the offered model is approved by appropriate authority.
10. Documentary evidence establishing that the manufacturer has supplied minimum 5 such appliance to various fire services during the last 5 years.
11. Certified Audited balance sheet for the last three financial years i.e. for the financial years , 2012-2013 ,2013-2014 and 2014-15
12. Documentary evidence showing that the bidder has a turnover of Rs. 10 Crore or equivalent foreign currency during last 3 years.
13. Documentary evidence showing that bidder has service facilities with trained staff in India.
14. An undertaking from the manufacturer to supply spares required for a minimum period of 10 years from the date of supply of equipment
15. Copy of PAN card with photographs duly certified in case of local bidder
16. Letter of Authority, in case the bid is being submitted by local agent of the foreign supplier, as per Schedule-A
17. A Demand Draft or Bid Bond in the form of bank guarantee (as per Schedule 'E') of Rs. 18,00,000 /- (Rupees eighteen lakhs only) towards Earnest Money Deposit. No interest will be applicable on the EMD payments.
18. An affidavit duly notarized by the company stating that it has not been blacklisted by any central, union territory and state govt./ organization or any Govt. procurement agency as well as convicted by any court of law and the period of blacklisting is not enforced till the date of validity of this offer being submitted.
19. An undertaking/certificate stating that the rates quoted are uniform for all the Government Institutions in the country (India) is to be provided. This certificate giving the reference of STC's Tender No. and Date along with your quoted item details may be submitted in original and the items if proprietary, a certificate to this effect may also be given.
20. Copy of price bid without showing the prices quoted.
21. Integrity Pact as per Schedule-D on plain paper signed and stamped by Authorised person of the Bidder and their witness.

B. The “Price Bid Part” must contain Price Bid (Format enclosed) which must be duly signed & stamped. The party-wise price comparison shall be strictly done on the basis of FOR Lucknow, Uttar Pradesh, India quoted prices. For the purpose of equitable comparison and evaluation of the offers, prices quoted in different foreign currencies will be converted to a single currency viz., Indian Rupees as per the TT Selling Rate established by the State Bank of India as on the date of Price Bid Opening.

C. Offers having conditions/deviations are liable to be rejected at the sole discretion of STC. Your Price Bids shall be opened only if your Techno Commercial Bid is found in order. Your techno-commercial and price bid shall be valid for at least 180 days.

14. Multiple Models option may not be offered, separate Bids along with separate EMD to be deposited if multiple models are to be quoted.

15) INTEGRITY PACT:

- (a) Signing of Integrity Pact (IP) is mandatory for every bidder participating in this tender. A copy of the IP is enclosed (Schedule-D), which may be deemed to have been signed by STC. A downloadable format of IP is available on the STC website under the link <http://www.stc.gov.in/corporatecommitments/Integrity-pact.aspx>. The Bidder(s) and STC shall be bound by the provisions of IP in case any complaint relating to the tender is found substantiated.
- (b) The IP shall be executed on a plain paper and duly signed on each page by the same signatory who signs the bid document.
- (c) Any bid not accompanied by duly signed IP by the bidder shall be summarily rejected.
- (d) All sub-contractors/associates whose contribution in the tender is above 5 crore shall sign IP with STC after the tender is awarded to the successful bidder. All bidders shall inform their sub-contractors/associates accordingly.
- (e) The Independent External Monitors (IEMs) for this tender shall be Mr. Ashok Sinha (Email: asinha51@gmail.com) and Mr. Kaushlesh K. Sinha (Email: sinhakaykay@gmail.com). All correspondence to IEMs regarding implementation of IP may either be made directly to their email or addressed to: Mr (Name of IEM), IEM, C/o Chairman & Managing Director, State Trading Corporation of India Ltd., Jawahar Vyapar Bhawan, Tolstoy Marg, New Delhi – 110 001.
- (f) The contract/agreement to be signed between STC and successful bidder will essentially include a clause that Integrity pact is a part of the contract and both STC and the bidder(s) are bound by the provisions of the Integrity pact. A sample clause for inclusion in contract/agreement is given below:

“That M/s _____ (Bidder) and STC agree that Integrity Pact is part of this contract and both the parties are bound by its provisions.”

SPECIAL INSTRUCTIONS TO THE TENDER NOTICE FOR COMPLIANCE OF THE TENDER PARTICIPANTS :-

- A. Plants to be offered with installation, supervision and complete training to operating staff.
- B. Offered plant should be of latest model and meet **international specifications and norms of safety, environment, pollution etc.** Model and specifications should be clearly spelt out.
- C. The plant supplied shall strictly conform to the specifications, trade mark laid down in the tender form and wherever articles have been required according to ISI specifications, such articles should conform strictly to those specifications and should bear such marks. The supply of articles marked with catalogue no./serial number..... shall in addition, conform strictly to the approved Samples and in case of other material where there are no standards or approved samples, the supply shall be of best quality and description. The decision of the

Purchase Officer/Purchase Committee whether the articles supplied conform to the specifications and are in accordance with the samples, if any, shall be final and binding on the tenderers.

- D. It is mandatory to enclose Product literature with the bids.
- E. In case equivalent make/model/brand is offered, a comparative statement with the make/model/brand desired by customer should be enclosed with bid.
- F. Options on all machines to be offered for TWO year comprehensive warranty (parts, travel and labour included).
- G. Warranty/Guarantee on the items should be spelt out clearly.
- H. Service arrangements in / for India/ site should be mentioned clearly in the bids. Similarly services included in the price offered for equipment/machines should be mentioned.
- I. Specifications are indicative, better specification may be offered as optional.
- J. Names where ever mentioned are for reference purpose, equivalent or better specification/ brand may be offered.
- K. List of essential spares and consumables should be mentioned and prices offered for the same as optional items.

OTHER TERMS AND CONDITIONS

- 1. Having regard to STC's Corporate Policy, offers from Principal Manufacturer/Distributor or their Authorized agents with Tender Specific authorization by their principal Manufacturer/Distributor in their favour as per Schedule 'A' enclosed only shall be considered. Offers otherwise submitted, if any, are thus liable to be rejected summarily.
- 2. Any change in the constitution of the firm, etc. shall be notified forthwith by the supplier in writing to the purchase officer and such change shall not relieve any former member of the firm etc. from any liability under the contract.

No new partner/partners shall be accepted in the firm in respect of the contract unless he/they agree to abide by all its terms and conditions and will provide a written agreement to this effect to the purchase officer. The suppliers receipt for acknowledgement or that of any partners subsequently accepted as above shall bind all of them and will be sufficient discharge for any of the purpose of the contract.

- 3. Sales Tax/ VAT/TIN TAN/ Excise Registration and Clearance Certificate: - Dealer who is not registered under the Sales Tax /VAT Act prevalent in the State where his business is located shall not tender.
- 4. The bidder firm shall be Original Equipment Manufacturer (OEM). The OEM firm shall submit a proof of being Original Equipment Manufacturer (OEM).
- 5. In case of the foreign supplier, they shall have an association with only one Indian firm having adequate infrastructure and resources including the required expertise in terms of men & material so as to provide effective after sales and service facilities during warranty period of two years, and thereafter. The Indian Associate shall have experience in the field of manufacturing/ fabricating/servicing including major repair of: 1)Crash Fire Tenders /or 2)Heavy Vehicles OEM's authorized workshop for servicing including major repair of heavy vehicles, for a minimum period of five years. The foreign supplier shall provide effective after sales and service facilities, during warranty period, and thereafter, through its Indian subsidiary company.

6. In case of Imported equipment, the Authorized agents may quote the prices for and on behalf of their principal manufacturers in the respective foreign currencies. Accordingly, upon award of order STC shall be entering into direct contract with the Principal Manufacturer.
7. Tenderer must make his own arrangements to obtain import license, if necessary.
8. Termination for Convenience:-

STC, may by written notice sent to the Supplier, terminate the contract, in whole or in part, at any time. The notice of termination shall specify that termination is for the end-user's convenience, the extent to which performance of work under the Contract is terminated, and the date upon which such termination becomes effective.

9. All offers shall be submitted along with an Earnest Money Deposit (EMD) of Rs. 18,00,000/- (Rs. Eighteen Lacs) in the Form of Pay Order / Demand Draft/ Bid Bond in favour of "The STC of India Ltd., New Delhi." The manufacturers who are registered under the NSIC's Single Point Registration Scheme for the plant being quoted (being indigenously manufactured in India) are exempted from payment of Earnest Money Deposit. However there is no exemption to Central/State Govt. PSU/PSE from depositing of EMD Money. The EMD DD/Payorder/Bid Bond to be placed in a sealed envelope along with a covering letter duly superscribing the Tender No. Item & Name of Item addressed to The Chief Manager (Marketing), General Imports Division, Jawahar Vyapar Bhawan, Tolstoy Marg, New Delhi-110001, India and dropped in the Tender Box placed conspicuously on the Ground Floor of STC of India Limited, Jawahar Vyapar Bhawan, Tolstoy Marg, New Delhi -110001.

No interest will be applicable on EMD amounts.

The Bidders are also requested to provide the RTGS Bank details for future refunds/Payments. EMD's paid by Cheques are not acceptable. However, for sake of convenience the foreign suppliers may submit the requisite EMD through Bid Bond in the form Bank Guarantee in USD. Earnest Money Deposit (EMD) must reach STC before last date and time of bid submission.

The details of EMD entered during the bid submission, and those available in scanned copies, should tally with the EMD sent physically. Otherwise, the bid may be rejected.

Forfeiture of earnest money: - The earnest money will be forfeited in the following cases:

- (i) When tenderer withdraws or modifies the offer after opening of tender but before acceptance of tender.
- (ii) When tenderer does not execute the agreement if any, prescribed within the specified time.
- (iii) When the tenderer does not deposit the security money after the supply order is given.
- (iv) When the tenderer fails to commence the supply of the items as per supply order within the prescribed time

10. For the Items being quoted on Local Supply basis the maximum rate/ amount of local taxes & levies quoted shall be treated as firm. However in case of any decrease in the applicable rate of local taxes & levies, on the date of supplies, same shall be paid at actuals.

Rate shall be written both in words and figures. There should not be errors and/or over-writings. Corrections if any should be made clearly with dated initials. The rates should mention element of the State Sales Tax and Central, Sales Tax, separately. All rates will be firm and fixed. The rates quoted must be for delivery at consignee stores anywhere in Uttar Pradesh, including packing, forwarding, loading, transportation, insurance, unloading, stacking, and all incidental charges, octroi and taxes except VAT/ CST. The delivery of the goods shall be given at the premises of purchase officer.

Similarly for the Prices of items being offered in foreign currency the quoted rate of Import Custom Duty shall be treated as firm. However in case of any decrease in the applicable rate of Import Custom Duty on the date of Custom Clearance same shall be paid at actuals.

11. STC is not compelled to consider the lowest bidder. The Plant of equipment may be increased or decreased by the end-user as per need and the increased quantity shall also have to be supplied within same stipulated time as set by STC and on the same terms and conditions.
12. Before taking the final decision on the basis of bid, if renewal of D.G.S & D rate contract takes place or D G S & D notifies new rate contract, STC will have authority to cancel the tender and purchase the plant as per D.G.S&D rate contract.
13. For the supply of Plant bidder should quote only one model in Technical Bid. If it is found that the bidder has quoted more than one model, the bid may be rejected.
14. The approved supplier shall be deemed to have carefully examined the conditions, specifications Size, make and drawings etc. of the goods to be supplied. If he has any doubts as to the meaning of any portion of these conditions or of the specification, drawing, etc., he shall, before signing the contract, refer the same to the STC and get clarifications
15. For the purpose of equitable comparison and evaluation of the offers, prices quoted in different currencies will be converted to a single currency viz., Indian Rupees as per the TT Selling Rate established by the State Bank of India as on the date of Price Bid Opening. The Comparison of prices & identification of L1 Bidder would be on FOR Destination Basis, duly delivered, installed, commissioned, training cost etc. as the case may be on the date of opening of Price Bid.
16. The offers received (other than conditional offers) after opening of bid(s) shall be forwarded to the end-user department for their evaluation.
17. The participating tenderers will sign and stamp each page of the tender document as a token of their acceptance of STC's tender terms and conditions unconditionally & unequivocally and submit same along with the offer (Technical Bid). The offer, not accompanied by STC's tender terms duly co-accepted, shall be summarily rejected.
18. The Financial Bids of the Tenderers whose Technical Bids are approved shall be opened subsequently.

19. Upon award of the Tender/Order to the successful bidder, a Performance Guarantee for due performance of the Contract, **valid up to the Guarantee period** of the equipment, equivalent to 10% of the order value shall be submitted by the awardee in the prescribed format in favour of end-user department through a Nationalized Bank in India. As per Schedule-B enclosed.

Warranty will be given as mentioned above and the tenderer shall during the warranty period replace/ repair the parts if any and remove any manufacturing defect, if found during the above period so as to make machinery operative. The tenderer shall also replace/ repair machinery in case it is found defective which cannot be put to operation due to manufacturing defect, etc.

In case of machinery specified by the Purchase Officer, the tenderer shall be responsible for carrying out annual maintenance. The tenderer shall also be responsible to ensure adequate regular supply of spare parts needed for a specific type of machinery and equipments, whether under their annual maintenance and repairs rate contract or otherwise. In case of change of model the tenderer will give sufficient notice to STC who may like to purchase spare parts from them to maintain the machinery and equipments in perfect condition.

20. Forfeiture of Performance Guarantee:- Performance Guarantee may be forfeited in the following cases:-
- When any terms and conditions of the contract are breached.
 - When the tenderer fails to make complete supply satisfactorily.
 - Non compliance / non adherence to Service Level Agreements (SLA).
21. The tenderer shall be responsible for the proper packing so as to avoid damage under normal conditions of transport by sea, rail and road or air and delivery of the material in good condition to the consignee at destination. In the event of any loss, damage, breakage or leakage or any shortage the tenderer shall be liable to fulfill such loss and shortage found at the checking/inspection of the materials by the consignee. No extra cost" on such account shall be admissible.
22. The STC/ end-user can repudiate the contract for the supply, at any time if the supplies are not made to his satisfaction after giving an opportunity to the tenderer of being heard and recording of the reasons for repudiation.
23. **Inspection** :- The pre-dispatch inspection of the plant shall be carried out at the factory premises of supplier by the representative of the end-user. End-user or his duly authorized representatives shall at all reasonable time have access to the supplier's premises and shall have the power at all reasonable time to inspect and examine the materials and workmanship of the goods/equipment/ machineries during manufacturing process or afterwards as may be decided. The tenderer shall furnish complete address of the premises of his office, godown and Workshop, where inspection can be made together with name and address of the person's who is to be contacted for the purpose. In case of those dealers who have newly entered in business, a letter of introduction from their bankers will be necessary. The cost on account of deputation of committee of three (3) officials of U.P.Fire Service for inspection including to & fro and accommodation shall be included in your offer.

24. Incidental Services :

The charges towards following services shall be included in the offered price:

- a) Performance and supervision of on-site assembly and start-up of the supplier plant.
 - b) Furnishing of tools required for assembly and maintenance of the supplied plant.
 - c) Furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied plant.
 - d) Performance supervision maintenance and repairs of the supplied plant for a period agreed by the parties provided that his service shall not relieve the supplier of any warranty obligations under this contract.
 - e) Conduct training of the purchaser's personnel, at the Supplier's plant and on-site in assembly start-up, operation maintenance and repair of the supplied plant.
 - f) The cost on account of training to the officers of Fire Services for one week at the factory premises of equipment manufacturer shall be included in your offer.
25. Rejection: -Articles not approved during inspection or testing shall be rejected and will have to be replaced by the tenderer at his own cost within period fixed by the Purchase Officer. If, however due to exigencies of Government work, such replacement either in whole or in part, is not considered feasible, the Purchase Officer after giving an opportunity to the tenderer of being heard, shall for reasons to be recorded, deduct a suitable amount from the approved rates. The deduction so made shall be final.
26. STC would be selling the goods on High Seas Sales basis to the end user Department. All the custom Clearance documents including High Seas Sales Agreement along with Invoice etc. shall be submitted to the supplier's nominated Custom Clearing Agent.
27. The rejected articles shall be removed by the tenderer within 15 days of intimation of rejection, after which Purchase Officer shall not be responsible for any loss, shortage or damage and shall have the right to dispose of such articles as he thinks fit, at the tenderer's risk and on his account.
28. You are also requested to kindly give the details of after sales service arrangements in India. The name of your Service representative in India along with his complete address and contact numbers may also be informed to us along with the offer so that the same could be notified to the end-user.
29. Right to vary Quantities: STC reserves the right to increase or decrease the quantity of equipments to be procured.
30. No deviation, whatsoever, shall be acceptable. The tenderer has to certify that by duly signing and stamping the following certificate:

CERTIFICATE

Certified that the enclosed offer against Tender No. STC/GID/433/2015-16 dated 15.12.2015 is in total conformity with tender terms & conditions including special instructions and specifications without any deviation, whatsoever.

Place:
Date:

SIGNATURE OF THE TENDERER
NAME & DESIGNATION OF TENDERER
COMPANY SEAL

31. **Liquidated damages:** - In case of extension in the delivery period with liquidated damages the recovery shall be made on the basis of following percentages of value of Stores which the tenderer has failed to supply:-

Delay up to one fourth period of the prescribed delivery period	2.5%
Delay exceeding on fourth but not exceeding half of the prescribed period	5%
Delay exceeding half but not exceeding three fourth of the prescribed period.	7.5%
Delay exceeding three fourth of the prescribed period	10%

Fraction of a day in reckoning period of delay in supplies shall be eliminated if it is less than half a day. The maximum amount of liquidated damages shall be 10%. If the supplier requires an extension of time in completion of contractual supply on account of occurrence of any hindrance, he shall apply in writing to the authority, who has placed the supply order, for the same immediately on occurrence of the hindrance but not after the stipulated date of completion of supply. Delivery period may be extended with or without liquidated damages if the delay in the supply of goods is on account of hindrances beyond the control of the tenderer.

32. **Recoveries:-** Recoveries of liquidated damages, short supply, breakage, rejected articles shall ordinary be made from bills. Amount may also be withheld to the extent of short supply, breakage, rejected articles and in case of failure in satisfactory replacement by the supplier along with amount of liquidated damages shall be recovered from his dues and security deposit available with the department. In case recovery is not possible recourse will be taken under Uttar Pradesh PDR Act or any other law in force.
33. Without any protests or demur, supplier indemnifies STC and its Branches and shall always keep STC fully indemnified and agrees to hold STC and its Branches harmless against any loss, claim, proceedings, damage, demurrage, costs, penalties, taxes, duties liabilities, legal cases, short shipment, quantity/quality/weight/purity, marking/specifications, etc of the material, costs or expenses of whatsoever nature, costs to STC on account of supplier/handling agent/omissions/negligence/mistake/misconduct breach or default and or non-fulfilment of terms and conditions of this agreement. The supplier shall keep STC indemnified at all times against any claims/liabilities/proceedings, etc from any third party or otherwise arising out/or in connection with this Tender.
34. STC may at its absolute discretion, reserve the right to shortlist, accept, disqualify, elect to abandon, reject any part or whole of the process without giving prior notice to the prospective party. STC reserve the right to cancel this tender in totality without assigning any reason at any point of time.

35. Any dispute or difference whatsoever arising between the parties out of or relating to the construction, meaning, scope, operation or effect of this contract or the validity of the breach thereof shall be settled by arbitration in accordance with the Rules of Arbitration of the Indian Council of Arbitration and the award made in pursuance thereof shall be binding on the parties.
36. The supplier hereto agree that the courts and tribunals at New Delhi shall have exclusive jurisdiction to settle any or all disputes which may arise out of or in connection with the Tender. All disputes arising out of this tender shall be decided in accordance with the Laws of India.
37. All terms and conditions of contract of STC with end user department will Mutatis Mutandis apply to the successful bidder.
38. The supplier shall not assign or sub-let his contract or any substantial part thereof to any other agency.
39. Submission of Bids
- i. Bids against this Tender shall be received only electronically through the e-Procurement Portal of NIC (eprocure.gov.in). No bids shall be accepted in hard copy or in any other form.
 - ii. For submission of bids, bidders are required to get themselves registered with eprocure.gov.in website using Class II / Class III Digital Signature Certificate.
 - iii. Earnest Money Deposit (EMD) must reach STC before last date and time of bid submission.
 - iv. The bidders are required to upload softcopies of the two parts of the bid viz. Technical & Financial.
 - v. A bidder may modify, substitute or withdraw its e-bid after submission before the last date and time of bid submission. No bids shall be modified, substituted or withdrawn by the bidder on or after the last date and time of bid submission.
 - vi. STC may ask the bidders to submit any or all the documents in original submitted as part of their online bid anytime during the bid process.
 - vii. For modification of e-bids, bidder has to detach its old proposal from e-tendering portal and upload/resubmit digitally signed modified bid.
40. For any queries relating to the process of online bid submission or queries relating to Procurement Portal (eprocure.gov.in), the bidders may contact CPP Portal Helpdesk .

New Delhi.

CHIEF MANAGER(MKTG)

Direct Tele No. – 23462129/23462286

नियम और शर्तें

आपसे अनुरोध है कि लखनऊ, उत्तर प्रदेश को ०२ नंबर क्लेश फायर टेंडर की आपूर्ति हेतु अपनी सर्वाधिक प्रतिस्पर्धात्मक ऑफर प्रस्तुत करें | इस निविदा के खिलाफ बोलियाँ निम्नलिखित निबंधों और शर्तों के तहत एनआईसी के ई-प्रोक्योरमेंट पोर्टल के द्वारा केवल इलेक्ट्रॉनिक रूप में ही प्राप्त की जाएंगी :-

- निविदाकर्ता जो आपूर्ति प्लान्ट का ऑफर देंगे, निविदाकृत मद के निर्माता होंगे और उन्होंने पिछले 5 वर्षों के दौरान विश्व में कहीं भी कम से कम 10 निविदा मदों की आपूर्ति की हो ।
- निविदाकर्ता के पास संविदा को पूरा करने के लिए आवश्यक वित्तीय, तकनीकी और उत्पादन क्षमताएँ हों। निविदाकर्ता अपनी सक्षमताओं के संबंध में एक प्रमाणपत्र प्रस्तुत करेगा ।
- निविदाकर्ता के भारत में व्यवसाय न करने के मामले में, निविदाकर्ता का भारत के एक एजेंट द्वारा प्रतिनिधित्व किया जाएगा । वह प्रतिनिधि निर्धारित संविदा की शर्तों और/या तकनीकी विनिर्देशों के अनुसार रखरखाव, मरम्मत और कलपुर्जों के स्टॉक की देयताओं के लिए उत्तरदायी होगा ।
- उत्पादन कम्पनी के पास वैध आईएसओ ९००१ -२००० या निर्माण सुविधाओं और प्रक्रियाओं के लिए अद्यतन प्रमाणपत्र होना चाहिए ।
- निविदाकर्ता के पास निविदा में संलग्न तकनीकी विनिर्देश के अनुसार प्लान्ट के सभी अनुमोदन होने चाहिए ।

“कोई भी बोली हार्ड कॉपी या किसी अन्य रूप में स्वीकृत नहीं होगी”

जानकारी के लिए कृपया www.stc.gov.in या www.tenders.gov.in या www.eprocure.gov.in वेबसाइट्स विजिट करें | रुचि बोलिदातायों को निर्धारित प्रारूप के अनुसार ज़रूरी दस्तावेज़ और सुचना भरते हुए बोलिया ऑनलाइन एनआईसी के ई-प्रोक्योरमेंट पोर्टल द्वारा भरनी होंगी |

यदि भविष्य में निविदा दस्तावेजों में कोई भी शुधिपत्र/ परिशिष्ट हो, उसे एसटीसी द्वारा www.stc.gov.in, www.eprocure.gov.in, एवं www.tenders.gov.in वेबसाइट्स पर ही अपलोड किया जायेगा और उसे प्रकाशित करने के लिए कोई प्रेस विज्ञापन नहीं दिया जायेगा |

आपकी ऑफर में निम्नलिखित सम्मिलित हों :-

1. संलग्न कीमत निविदा प्रपत्र (अनुसूची सी) के अनुसार एफओबी मूल्य, सीआईपी भारतीय बंदरगाह और एफओआर, लखनऊ, उत्तर प्रदेश मूल्य

क. आयातित उपकरण के मामले में

विदेशी मुद्रा में ऑफर किए जाने वाले संयंत्र के मामले में निविदाकर्ता को सीआईएफ भारतीय बंदरगाह मूल्य , उद्धरित किये गए मद के लिए आकलन योग्य मूल्य पर आयात सीमा शुल्क की दर, आयात सीमा शुल्क की दर का प्रमाण , सीमा शुल्क समशोधन प्रभार, आंतरिक बीमा और परिवहन प्रभार जो लखनऊ, उत्तर प्रदेश तक हो, अनुसूची सी के अनुसार कीमत निविदा प्रपत्र में देने चाहिए । बीमा, भारतीय बंदरगाह तक, सीमा शुल्क समाशोधन प्रभार, आंतरिक बीमा और परिवहन प्रभार जो भारतीय बंदरगाह से लखनऊ, उत्तर प्रदेश के लिए हो, इन सबका ब्यौरा दिया जाना चाहिए ।

निम्नलिखित कागजात

- आपूर्तिकर्ता के नामांकित सीमा क्लीयरिंग हैंडलिंग एजेंट के पक्ष में प्राधिकार
- आयात सीमा शुल्क का भुगतान (यदि और जैसा लागू हो) (सीमाशुल्क विभाग में प्रविष्टि बिल की प्रति प्राप्त होने पर) एसटीसी द्वारा किया जायेगा ।

ख. स्थानीय आपूर्तियों के मामले में

निविदाकर्ता को अनुसूची सी के अनुसार मूल्य बोली प्रारूप में स्थानीय करों और उपकरणों का फुटकर ब्यौरा देते हुए एफओआर लखनऊ, उत्तर प्रदेश मूल्य देना होगा । सभी दरें सुदृढ़ और सुनिश्चित होनी चाहिए । उद्धरित की गयी दरें लखनऊ, उत्तर प्रदेश में डिलीवरी हेतु परेषण स्टोरों पर पैकिंग, अग्रेषण, लदान, परिवहन, बीमा, उतराई, स्टैकिंग, और सभी आकस्मिक खर्च, चुंगी और करों सहित हों । सामान की डिलीवरी लखनऊ, उत्तर प्रदेश में परेषण स्टोरों पर दी जाएगी ।

2. उद्गम देश (यह निर्यातक देश के चैम्बर ऑफ कॉमर्स द्वारा सही प्रकार से समर्थित हो जो माल के पोत-लदान के समय प्रस्तुत किया जाए ।)
3. डिलीवरी कार्यक्रम - डिलीवरी अवधि स्पष्ट रूप से उद्धरण में उल्लेखित होनी चाहिए और आर्डर की प्राप्ति से १२ हफ्तों से अधिक नहीं होनी चाहिए ।
4. भुगतान शर्तें - हम १००% टीटी ट्रान्सफर/ लैटर ऑफ़ क्रेडिट (एलसी) पर कार्य करते हैं। एलसी के मामले में, एलसी १०० % आदेश मूल्य के लिए स्थापित किया जाएगा और ९०% (नब्बे प्रतिशत) भुगतान पूर्व प्रेषण के निरीक्षण के संतोषजनक प्रमाण पत्र एवं लोड पोर्ट निरीक्षण प्रमाणपत्र के साथ-साथ माल की रवानगी से संबंधित दस्तावेज प्रस्तुत करने के खिलाफ जारी किया जाएगा और शेष १०% (दस प्रतिशत) भुगतान अंत उपयोगकर्ता विभाग के परिसर में माल की संतोषजनक स्थापना / प्रदर्शन और उन्ही के द्वारा जारी प्रमाण पत्र

की प्राप्ति के बाद देय होगा | एलसी के मामले में, भारत के बाहर देय (एलसी पुष्टि शुल्क सहित) सभी बैंक शुल्क विक्रेता के खाते से किया जाएगा | माल की पूर्व डिलीवरी निरीक्षण अंत उपयोगकर्ता विभाग या उनके नामांकित व्यक्ति द्वारा निर्माता के परिसर पे किया जाएगा |

(1) एलसी के तहत ९० % (नब्बे प्रतिशत) भुगतान निम्नलिखित दस्तावेजों की प्रस्तुति के खिलाफ और साक्ष्य लदान के सबूत पर उपलब्ध किया जायेगा

1. क्लीन बिल ऑफ लैडिंग पूरा सेट और चिह्नित फ्रेट प्रीपेड।
2. साख पत्र संख्या, आर्डर संख्या और तारीख क्रमशः देते हुए ३ प्रतियों में हस्ताक्षरित बीजक |
3. अंतिम-उपयोगकर्ता विभाग या उनके नामांकित व्यक्ति से निर्माता के परिसर में माल की संतोषजनक पूर्व डिलीवरी निरीक्षण का प्रमाण पत्र।
4. चैम्बर ऑफ कॉमर्स या समकक्ष निकाय द्वारा २ प्रतियों में जारी ओरिजिन के सामान का प्रमाणपत्र |
5. विशिष्टता और सामान की सूची - तीन प्रतियां।
6. निर्माता का गारंटी प्रमाण पत्र - तीन प्रतियां (एसटीसी के आदेश के अनुसार) ।
7. निर्माता से इस आशय का प्रमाणपत्र की सामान निर्माता के मानकों के अनुसार है और नया है तथा निविदा संख्या : जीआईडी/ ४३३/२०१५-१६ दिनांक १५.१२.२०१५ में उल्लेखित विनिर्देशों के अनुसार किसी लेटेंट या पेटेंट दोष से मुक्त है |
8. बीमा पॉलिसी / प्रमाणपत्र - एक मूल और दो प्रतियां
9. विक्रेता द्वारा बिल ऑफ लैडिंग के जारी करने के ७२ घंटे के भीतर भेजे गये फैंक्स की प्रति जिसमे बिल ऑफ लैडिंग की जानकारी, भेजे गए माल, कुल चालान मूल्य, वेसल का नाम, लोडिंग पोर्ट और प्रस्थान की तारीख और भारतीय बंदरगाह पर आने का समय दिया गया हो
10. विक्रेता द्वारा प्रमाणपत्र की माल सूची के अनुसार सभी आवश्यकता पूरी करते हैं जो की आर्डर के साथ संलग्न अनुबंध -१ में हैं |
11. विक्रेता से प्रमाण की (१) से (१०) के तहत उल्लेख अपरक्राम्य दस्तावेजों का एक सेट जहाज के प्रस्थान के १० दिन के भीतर एयर मेल / कूरियर कर दिया गया है और साथ ही (क) एसटीसी और (ख) अंत उपयोगकर्ता विभाग को भेज दिया गया है |

(2) एलसी के तहत शेष १०% (दस प्रतिशत) भुगतान अंत उपयोगकर्ता विभाग द्वारा भारत में अपने परिसर में माल की रसीद, प्रशिक्षण और प्रदर्शन, संतोषजनक स्थापना, का प्रमाण पत्र प्राप्त होने के बाद / देय जारी किया जायेगा ।

5. मूल्य की वैधता - आपकी ऑफर निविदा बंद होने की तारीख से ६ महीनों तक हमारे द्वारा स्वीकृति के लिए वैध होगी | छोटी अवधि के लिए वैधता बोलियों को अस्वीकार किया जा सकता है |
6. **डिलीवरी अनुदेश** : प्रेषण से पहले, प्लांट को पेंटिंग या अन्य उपयुक्त माध्यम द्वारा मार्ग की पूरी अवधि के लिए प्रयोग से पहले एक अत्यधिक नमी की जलवायु में उसका भंडारण करके, वर्मिन, तेज धूप, वर्षा, उच्च तापमान और नमी या समुद्र के नमक युक्त वातावरण या समुद्री स्प्रे के प्रभाव और कोरोजन और आकस्मिक क्षति से बचाते हुए सुरक्षित रखा जाएगा | आपूर्तिकर्ता को प्लांट को सुरक्षित रखने के लिए उत्तरदायी माना जाएगा | आपूर्तिकर्ता मध्य अवधि के दौरान किसी परिणामी क्षतियों के लिए उत्तरदायी माना जाएगा | प्लांट की ट्रास शिपमेंट की अनुमति नहीं होगी |
7. बंदरगाह का तटबंध
8. आपूर्तिकर्ता के बैंक का ब्यौरा
9. वारंटी की शर्तें :- वारंटी प्लांट के अंतिम गन्तव्य पर सफलतापूर्वक कमीशन होने के 24 घंटे बाद के लिए वैध होगी, बशर्ते अन्यथा विनिर्दिष्ट हो। आपूर्तिकर्ता सुनिश्चित करेगा कि प्लांट अत्यधिक अद्यतन है, पहले प्रयोग में नहीं लाया गया है और अत्यधिक नवीनतम या चालू माडलों की नयी, प्रयोग न की गयी आपूर्ति करता है और डिजाइन तथा सामग्री के सभी नए सुधारों को सम्मिलित करता है बशर्ते अन्यथा न कहा गया हो | आपूर्तिकर्ता आगे वारंटी देता है कि आपूर्ति किया गया प्लांट डिजाइन, सामग्री या कारीगरी या आपूर्तिकर्ता या किसी भूल से होने वाले प्रभाव से मुक्त होगा जो अंतिम गन्तव्य के देश में वर्तमान शर्तों में आपूर्ति किए गए प्लांट के सामान्य प्रयोग के तहत हो सकते हैं | इसमें, सामान्य वियर और टीयर तथा श्रम के परिणामस्वरूप पुर्जा का बदलना शामिल होगा |
10. सीआईएफ, मुंबई, भारत में प्लांट के १० वर्षों के लिए अपेक्षित उपभोग्य और कलपुर्जा की विस्तृत सूची भी निविदा ऑफर के साथ जमा की जाएगी |
11. बोली-पूर्व बैठक :- निविदाकर्ता विनिर्देशों, जॉच मानदण्ड, गुणवत्ता आश्वासन आदि के स्पष्टीकरण के मामले में, निविदा सूचना में दी गयी निविदा पूर्व बैठक की तारीख पर या उससे पहले अपने प्रश्न उठाने के लिए स्वतंत्र हैं | इस तरह के प्रश्न akhil@stc.gov.in पर ईमेल करके उठाये जा सकते हैं और ईमेल में एसटीसी की सन्दर्भ संख्या मौजूद होना चाहिए | प्रश्नों के उत्तर निविदाकर्ताओं को ऑफर किए जाएंगे जो निविदा पूर्व बैठक में उपस्थित रहना चाहेंगे | निविदा पूर्व बैठक - ०४.०१.२०१६ पूर्वाह्न ११३० बजे से उत्तर प्रदेश फायर सर्विसेज मुख्यालय, इंदिरा भवन, अशोक मार्ग, लखनऊ, उत्तर प्रदेश में आयोजित की जाएगी |

यह निविदा पूर्व बैठक केवल तब आयोजित की जाएगी जब निर्धारित बैठक से १ सप्ताह पूर्व विभिन्न निविदाकर्ताओं से कोई विशेष अनुरोध होता है। तथापि, विभिन्न निविदाकर्ताओं से अनुरोध है कि वे निविदा पूर्व बैठक के कार्यक्रम में किसी भी प्रकार के परिवर्तन के लिए एसटीसी की वेबसाइट देखें।

12. निविदा कार्यक्रम :-

1. ऑफर प्राप्त करने की अंतिम तारीख व समय : दिनांक १८.०१.२०१६ दोपहर ३ बजे
2. ऑफर खुलने का समय और तारीख : दिनांक १८.०१.२०१६ दोपहर ३:३० बजे

13. दो निविदा प्रणाली के तहत आमंत्रित ऑफर:

सभी निविदाकर्ताओं को अपनी ऑफर दो कवर यानि- वाणिज्यिक निविदा और मूल्य निविदा में देनी होगी।

1. "वाणिज्यिक निविदा" में निम्नलिखित दस्तावेज़ चाहिए :-

1. एसटीसी का निविदा दस्तावेज़ विधिवत प्रत्येक पृष्ठ पर हस्ताक्षरित और मोहर लगा पूरा सेट बिना किसी विचलन के, निविदा की सभी शर्तों की आपकी स्वीकृति के टोकन के रूप में
2. उल्लेखित तकनीकी विनिर्देशों पर खंड दर खंड अनुपालन, उन विनिर्देशों के लिए भारी मात्रा में उत्तरदायी प्लांट और सेवाओं का प्रदर्शन करते हुए या तकनीकी विनिर्देशों के प्रावधानों के विचलन और अपवाद की एक विवरणिका। अनुपालन विवरणिका के प्रस्तुत न किए जाने के परिणामस्वरूप, ऑफर को तत्काल रद्द कर दिया जाएगा।
3. निर्माता को फर्म क्रैश फायर टैंडरों के निर्माण के क्षेत्र / फैबरिकेशन का ४५०० लीटर या अधिक क्षमता वाले पानी के टैंक सहित पिछले ७ वर्षों का अनुभव होगा। पिछले ७ वर्षों में सीएफटी के निर्माण और आपूर्ति के उपयुक्त प्राधिकार/प्रमाण सहित पंजीकरण की प्रति जमा की जाएगी।
4. कम-से-कम १० क्रैश फायर टैंडरों की खरीद के आर्डर।
5. सीएफटी की आपूर्ति हेतु खरीद आदेशों में पूर्णतया भारित वाहन निष्पादन युक्त कम-से-कम ३ सीएफटी, तकनीकी विनिर्देशों और निष्पादन मानदण्डों के समान या उससे भी अधिक विशिष्ट तकनीकी विनिर्देशों के अनुसार शामिल होंगे।
6. निर्माता फर्म में एक नोटरी की अंडरटेकिंग प्रस्तुत करते हुए प्रमाणित करेंगी कि इसमें एक वर्ष में तकनीकी विनिर्देशों को पूरा करने वाले कम-से-कम १० क्रैश फायर टैंडर निर्माण / डिलीवर करने की उत्पादन क्षमता होगी।
7. कम्पनी का पंजीकरण प्रमाणपत्र, बिक्रीकर/वैट पंजीकरण प्रमाणपत्र (जैसा भी मामला लागू हो)।

8. रूपए ५०० लाख (११०००० अ.डालर) के अद्यतन बैंक साल्वेंसी प्रमाणपत्र ।
9. दस्तावेजी साक्ष्य यह दर्शाते हुए कि ऑफर किया गया माडल उपयुक्त प्राधिकारी द्वारा अनुमोदन प्राप्त है ।
10. दस्तावेजी साक्ष्य यह स्थापित करते हुए कि निर्माता ने पिछले ५ वर्षों के दौरान विभिन्न फायर सर्विस को ऐसे कम-से-कम ५ उपकरणों की आपूर्ति की है ।
11. पिछले ३ वित्तीय वर्षों यानि २०१२-१३, २०१३-१५ और २०१४-१५ का प्रमाणित लेखापरीक्षित तुलन पत्र ।
12. दस्तावेजी साक्ष्य यह दर्शाते हुए कि निविदाकर्ता का पिछले ३ वर्षों के दौरान रूपए १० करोड़ या समकक्ष विदेशी मुद्रा का कारोबार है ।
13. दस्तावेजी साक्ष्य यह दर्शाते हुए कि निविदाकर्ता के पास भारत में प्रशिक्षित स्टाफ सहित सेवा की सुविधाएँ हैं ।
14. निर्माता से उपकरण की आपूर्ति की तारीख से न्यूनतम १० वर्षों के अपेक्षित पुर्जों की आपूर्ति की एक अंडरटैकिंग ।
15. स्थानीय निविदाकर्ता के मामले में फोटोग्राफ सहित विधिवत प्रमाणित पेनकार्ड की प्रति ।
16. प्राधिकार पत्र, अनुसूची ए के अनुसार विदेशी आपूर्तिकर्ता के स्थानीय एजेंट द्वारा प्रस्तुत की जा रही निविदा के मामले में ।
17. धरोहर राशि जमा के रूप में एक रु १८,००,००० का डिमांड ड्राफ्ट या बिड बांड बैंक गारंटी के रूप में | ईएमडी के भुगतान पर कोई ब्याज लागू नहीं होगा ।
18. कम्पनी द्वारा विधिवत नोटराइज एक शपथ-पत्र यह बताते हुए कि इसे किसी केन्द्रीय, संघीय प्रदेश और राज्य सरकार / संगठन या किसी सरकारी प्रापण एजेंसी द्वारा काली सूची में नहीं डाला गया है तथा साथ ही कानूनी न्यायालय द्वारा इस पर कोई मुकदमा नहीं चलाया गया है तथा इस ऑफर के प्रस्तुत करने की वैधता की तिथि तक काली सूची में डालने की अवधि लागू नहीं हुई है ।
19. एक अंडरटैकिंग / प्रमाणपत्र यह बताते हुए कि उद्धरित दरें देश (भारत) में प्रदान की जाने वाली सभी सरकारी संस्थाओं के लिए एक हैं । यह प्रमाणपत्र आपके उद्धरित मद के ब्यौरे सहित एसटीसी की निविदा संख्या और तारीख का संदर्भ देते हुए मूल रूप में जमा किया जाए और मर्दे यदि प्रोपराइटरी हों, इस विषय में भी एक प्रमाणपत्र दिया जाए ।
20. उद्धरित मूल्य दर्शाए बिना मूल्य निविदा की प्रति ।

2. हस्ताक्षरित और मुद्रांकित मूल्य बोली, मूल्य बोली फॉर्मेट के हिसाब से | पार्टी के वार मूल्य की तुलना स्केडेवुल सी में एफओआर लखनऊ, उत्तर प्रदेश उद्धित मूल्य पर ही किया जायेगा | आफरों की समान तुलना और मूल्यांकन के उद्देश्य हेतु, विभिन्न मुद्राओं

में उद्धरित मूल्यों को भारतीय स्टेट बैंक द्वारा स्थापित मूल्य बोली प्रारंभ होने की तारीख की टीटी बिक्री दर के अनुसार एकल मुद्रा यानि भारतीय रूपए में बदल दिया जायेगा

3. शर्त/विचलन वाले ऑफर एसटीसी के स्व विवेक पर रद्द किए जा सकते हैं । आपकी मूल्य निविदाएँ केवल तभी खोली जाएंगी यदि आपकी टेकनो कमर्शियल बिड सही पाई गई हो । आपकी तकनीकी वाणिज्यिक निविदा और मूल्य निविदा कम से कम १८० दिनों के लिए वैध होंगी ।

14. मॉडल के कई विकल्प ऑफर में न दिए जाएँ, यदि कई मॉडल्स के लिए उद्धरण देना है तो बिडर को प्रत्येक मॉडल के लिए अलग ईएमडी जमा करानी होगी ।

सत्यनिष्ठा समझौता

1. सत्यनिष्ठा समझौते (आईपी) पर हस्ताक्षर इस निविदा में भाग लेने वाले हर बोली लगाने के लिए अनिवार्य है । आईपी की एक प्रति (जिसे एसटीसी द्वारा हस्ताक्षर किए गए हैं समझा जा सकता है) अनुबंध D में संलग्न है। आईपी के एक डाउनलोड योग्य प्रारूप लिंक <http://www.stc.gov.in/corporatecommitments/Integrity-pact.aspx> के तहत एसटीसी वेबसाइट पर उपलब्ध है । बोलीदाता और एसटीसी को निविदा से संबंधित किसी भी शिकायत के मामले में आईपी के प्रावधानों से बाध्य किया जाएगा ।
2. आईपी एक सादे कागज पर होनी चाहिए और प्रत्येक पृष्ठ पर विधिवत बोली दस्तावेज के हस्ताक्षरकर्ता द्वारा हस्ताक्षरित किया जाएगा ।
3. बोलीदाता द्वारा किसी भी बोली को जो विधिवत हस्ताक्षरित आईपी के साथ नहीं होगी सरसरी तौर पर अस्वीकार कर दिया जाएगा ।
4. निविदा सफल बोली लगाने के लिए सम्मानित किया गए सभी उप ठेकेदारों / एसोसिएट्स जिनका योगदान निविदा में 5 करोड़ से ऊपर है एसटीसी के साथ आईपी हस्ताक्षर करेंगे। सभी बोलीदाताओं तदनुसार उनके उप - ठेकेदारों / साथियों को सूचित करेंगे।
5. इस निविदा के लिए स्वतंत्र बाहरी मॉनिटर (आईईएम) श्री अशोक सिन्हा (Email: asinha51@gmail.com) और श्री कौश्लेश के सिन्हा (Email: sinhakaykay@gmail.com) होंगे। आईपी के कार्यान्वयन के संबंध में सभी पत्राचार को उन्हें संबोधित किया जाना चाहिए: श्री (आईईएम का नाम) , आईईएम , C/O अध्यक्ष एवं प्रबंध निदेशक, स्टेट ट्रेडिंग कॉर्पोरेशन इंडिया लिमिटेड, जवाहर व्यापार भवन, टालस्टाय मार्ग, नई दिल्ली-110 001।

6. एसटीसी और सफल बोली लगाने वाले के बीच हस्ताक्षर किए जाने वाले अनुबंध / करार में एक खंड अनिवार्य रूप से शामिल करेंगे जिसके अनुसार सत्यनिष्ठा समझौता अनुबंध का एक हिस्सा है और दोनों एसटीसी और बोलीदाता सत्यनिष्ठा समझौते के प्रावधानों से बंधे हुए हैं ।

शामिल किये जाने वाले खंड का नमूना निचे दिया गया है:

“कि मेस्सर्स _____ (बोलीदाता) और एसटीसी इस बात से सहमत है कि सत्यनिष्ठा समझौते इस अनुबंध / करार का हिस्सा है और दोनों दल इसके प्रावधानों से बंधे हुए हैं”

निविदा में भाग लेने वालों के अनुपालन हेतु निविदा सूचना के विशिष्ट निर्देश :-

1. संयंत्र स्थापना, पर्यवेक्षण, और स्टाफ को पूर्ण प्रशिक्षण के साथ ऑफर किये जायेंगे ।
2. पेश किया गया संयंत्र अद्यतन मॉडल के होने चाहिए जो अंतर्राष्ट्रीय विनिर्देशों तथा सुरक्षा, पर्यावरण, प्रदूषण इत्यादि की शर्तों को पूरा करता है । मॉडल और विनिर्देश स्पष्ट रूप से बताये जाने चाहिए ।
3. आपूर्ति की जाने वाली सारी वस्तुएं टेंडर फॉर्म में निर्धारित विनिर्देशों, ट्रेडमार्क के पुष्टि में होने चाहिए तथा जहां भी वस्तुएं के आईएसआई विनिर्देशों के अनुसार होने की अपेक्षा की गयी है वहां पर इस तरह की वस्तुएं सख्ती से उन विनिर्देशों के अनुसार होनी चाहिए तथा उन पर इस प्रकार के चिन्ह होने चाहिए । कैटेलॉग नंबर/ क्रम संख्या सहित मार्क की गई वस्तुओं की आपूर्ति अतिरिक्त रूप से अनुमोदित नमूनों के पुष्टि में होनी चाहिए तथा अन्य सामग्री के मामले में जहाँ कोई मानदंड नहीं है अथवा अनुमोदित नमूने नहीं है वहां आपूर्ति सर्वोत्तम और विवरण के अनुसार होगी । खरीद अधिकारी / खरीद कमिटी का निर्णय कि क्या आपूर्ति की गई वस्तुएं विनिर्देशों की पुष्टि में है और नमूनों के अनुसार है, इस सन्दर्भ में उनका निर्णय अंतिम और निविदाकर्ताओं पर बाध्यकारी होगा ।
4. यह अति आवश्यक है कि उत्पाद साहित्य विवरण बोली के साथ संलग्न किया जाए ।
5. यदि तुलनीय उपकरण मेक / मॉडल / ब्रांड ऑफर किया जाता है तो ग्राहक द्वारा इच्छा व्यक्त की गयी मेक / मॉडल / ब्रांड के साथ बोली सहित एक तुलनात्मक विवरणिका संलग्न की जानी चाहिए ।
6. सभी मशीनों हेतु विकल्प दो वर्ष की वृहद वारंटी के साथ (कलपुर्जा, यात्रा और श्रम सहित) ऑफर किए जाएंगे ।
7. संयंत्रो पर वारंटी / गारंटी स्पष्ट रूप से बतायी जानी चाहिए ।
8. भारत में / कार्यस्थल पर सेवा व्यवस्था का बोली में स्पष्ट रूप से उल्लेख किया जाना चाहिए । उपकरण/मशीनों हेतु ऑफर की गयी कीमत में शामिल की गयी इसी प्रकार की सेवाओं का उल्लेख किया जाना चाहिए ।

9. विनिर्देश सांकेतिक हैं । विकल्प के तौर पर इनसे बेहतर विनिर्देश ऑफर किए जा सकते हैं ।
10. नाम जहाँ कहीं भी उल्लेखित हैं, संदर्भ उद्देश्य हेतु है , समकक्ष या बेहतर विनिर्देशन / ब्रांड प्रस्तुत किये जा सकते हैं ।
11. आवश्यक कलपुर्जो और उपभोग्य सामग्री की सूची तथा वैकल्पिक मर्दों के तौर पर इनके लिए ऑफर की गई कीमतों की सूची का उल्लेख किया जाना चाहिए

अन्य निबंधन एवं शर्तें

1. एसटीसी की कॉर्पोरेट नीति के सम्बन्ध में मुख्य निर्माता/ आपूर्तिकर्ता या उनके प्राधिकृत एजेंट्स की ऑफर्स पर उनके मुख्य निर्माता/ आपूर्तिकर्ता द्वारा निविदा विशिष्ट प्राधिकार सहित उनके पक्ष में संलग्न अनुसूची 'ए' के अनुसार होने पर ही विचार किया जायेगा । अन्यथा प्रस्तुत की गयी ऑफर्स को रद्द कर दिया जायेगा ।
2. फर्म के संविधान में किसी परिवर्तन की सुचना खरीद अधिकारी को ठेकेदार द्वारा लिखित में तत्काल दी जाएगी तथा इस प्रकार के परिवर्तन में फर्म के किसी भूतपूर्व सदस्य को संविधा के अधीन किसी प्रकार की दायता से छूट नहीं होगी ।
संविदा के मामले में ठेकेदार द्वारा फर्म में कोई नया साझेदार / हिस्सेदार स्वीकार नहीं किया जायेगा जब तक कि वे इसकी सभी शर्तों और नियमों के अनुपालन से सहमत नहीं हो जाते हैं तथा उन्हें इस आशय का एक लिखित करार खरीद अधिकारी को देना होगा । पावती हेतु ठेकेदारों की रसीद या किसी भी साझेदार की तदन्तर स्वीकृत की जाएगी जो उन्हें एकसूत्र में बांधेंगे तथा संविदा के उद्देश्य हेतु कार्य करने के लिए पर्याप्त होंगे ।
3. बिक्रीकर/ वैट पंजीकरण / समाशोधन प्रमाणपत्र - जो डीलर उस राज्य में निहित बिक्रीकर / वैट अधिनियम के अधीन पंजीकृत नहीं है जहाँ कि उसका व्यवसाय है वह टेंडर नहीं कर सकेगा ।
4. बोली लगाने वाला फर्म मूल उपकरण निर्माता होना चाहिए । मूल उपकरण निर्माता फर्म को मूल उपकरण निर्माता होने का सबूत देना होगा ।
5. विदेशी आपूर्तिकर्ताओं का केवल एक भारतीय फर्म के साथ संघ होना चाहिए जिसके पास पर्याप्त बुनियादी सुविधाएं एवं पुरुषों और सामग्री के साधन हो ताकि दो साल की वारंटी अवधि तक प्रभावी बिक्री के बाद की सेवाएं प्रदान कर सकें । भारतीय साथी का विनिर्माण / फैब्रिकेटिंग सर्विसिंग में अनुभव होना चाहिए जिसमें १) क्लेश फायर टेंडर; २) भारी वाहनों की प्रमुख मरम्मत का न्यूनतम ०५ साल का अनुभव होना चाहिए । विदेशी आपूर्तिकर्ता को अपने भारतीय सहायक कंपनी के माध्यम से प्रभावी आफ्टर सेल्स और सर्विस की सुविधाएं प्रदान करनी होंगी ।
6. आयातित उपकरण के मामले में प्राधिकृत एजेंट सम्बन्ध विदेशी मुद्रा में उनके मुख्य निर्माताओं के लिए और उनकी ओर से कीमतें उद्धरत कर सकती हैं । तदनुसार एसटीसी आदेश प्रदान करने पर मुख्य निर्माता के साथ प्रत्यक्ष संपर्क करेगा ।

7. निविदाकर्ता को आयात प्राप्त करने के लिए यदि आवश्यक हो तो अपनी व्यवस्था करनी चाहिए।
8. एसटीसी लिखित सूचना भेज कर कभी भी अनुबंध समाप्त कर सकता है। निलंबन की सूचना निर्दिष्ट करेगा कि अनुबंध की समाप्ति अंत उपयोगकर्ता की सुविधा के लिए है, और किस हद तक अनुबंध में काम का प्रदर्शन समाप्त किया जा रहा है, और अनुबंध समाप्ति की तारीख कब से प्रभावी है।
9. सभी ऑफर्स उद्धरित दरों के रु १८,००,००,०००/- की धरोहर राशी जमा (ईएमडी) के साथ एसटीसी ऑफ इंडिया लिमिटेड, नई दिल्ली के पक्ष में पे-आर्डर/ डिमांड ड्राफ्ट/ बिड-बांड के रूप में जमा की जाएंगी। धरोहर जमा राशि (ईएमडी) बोली बांड के रूप में निर्धारित प्रारूप के अनुसार जमा किया जा सकता है। ईएमडी को पे-आर्डर/ डिमांड ड्राफ्ट/ बिड-बांड तकनीकी निविदा सहित लिफाफे में रखा जायेगा। वे निर्माता जो उद्धरित संयंत्र हेतु (भारत में स्वदेशी स्तर पर निर्मित होने के नाते) हेतु एनएसआईसी की सिंगल पॉइंट पंजीकरण योजना के अधीन पंजीकृत हैं उन्हें धरोहर जमा राशि के भुगतान में छूट है। तथापि ईएमडी राशि जमा करने के लिए केंद्रीय/ राज्य सरकार के पीएसयू/ पीएसई को कोई छूट नहीं है। ईएमडी को बंद लिफाफे में जिस पर निविदा संख्या एवं मद का नाम लिखा हो, मुख्य प्रबंधक, सामान्य आयात विभाग, एसटीसी ऑफ इंडिया लिमिटेड, जवाहर व्यापार भवन, टॉलस्टॉय मार्ग, नई दिल्ली -११०००१ में एसटीसी के भूतल स्वागत कक्ष में रखे निविदा बॉक्स में डाले जाएँ :-

निविदाकर्ताओं से यह भी अनुरोध है कि भविष्य की वसूलियों/ भुगतानों हेतु आरटीजीएस बैंक विवरण प्रदान करें। चेक द्वारा अदा की गयी धरोहर जमा राशी स्वीकृत नहीं है।

धरोहर जमा राशी जब्त करना - निम्नलिखित मामलों में धरोहर जमा राशी जब्त कर ली जाएगी -

- जब निविदाकर्ता निविदा खुलने के पश्चात् किन्तु निविदा की स्वीकृति से पहले ऑफर से पीछे हटता है या उसमें संशोधन करता है।
 - जब निविदाकर्ता निर्धारित समय के अन्दर निर्धारित करार का निष्पादन नहीं करता है।
 - जब निविदाकर्ता आपूर्ति आदेश दिए जाने के बाद सुरक्षा राशि जमा नहीं करता है।
 - जब वह निर्धारित समय पर आपूर्ति आदेश के अनुसार मदों की आपूर्ति करने में असमर्थ रहता है।
10. स्थानीय आपूर्ति आधार पर उद्धरित की जा रही मदों हेतु उद्धरित स्थानीय करों एवं उपकरणों की अधिकतम दर/ राशि पक्की मानी जाएगी। तथापि, स्थानीय करों एवं उपकरणों की लागू दर में किसी कमी के मामले में, आपूर्ति की तारीख पर लागू दर पर भुगतान होगा।

दरें शब्दों और अंकों दोनों में लिखी जाएंगी। ऐसा करते समय कोई गलती और/ या ओवरराईटिंग नहीं होनी चाहिए। शुधियाँ यदि की जाएँ तो उन पर तारीख सहित आद्यक्षर

होने चाहिए । दरों में उत्तर प्रदेश राज्य बिक्रीकर और केंद्रीय बिक्रीकर का अलग-आग रूप से उल्लेख होने चाहिए । सभी दरें सुदृढ और स्थायी होनी चाहिए । उद्धरित दरें पैकिंग, फोर्वाडिंग, लोडिंग, परिवहन, बीमा, टुलाई, स्टैकिंग, और सभी आकस्मिक प्रभारों, चुंगी और कर जिनमे वैट/ सीएसटी शामिल नहीं होंगे, सहित उत्तर प्रदेश में कहीं पर भी परेषिती के भंडार में डिलीवरी नहीं होनी चाहिए । माल के डिलीवरी खरीद अधिकारी के परिसर में दी जाएगी ।

इसी प्रकार, विदेशी मुद्रा में ऑफर की गयी संयंत्र के मूल्य सेतु आयात सीमा शुल्क की उद्धरित दर पक्की मानी जाएगी । तथापि, आयात सीमा शुल्क की लागू दर में किसी कमी के मामले में, वह उस दिन की लागू दर पर भुगतान होगा।

11. एसटीसी सबसे कम बोली लगाने वाले पर विचार करने पर मजबूर नहीं होगा । एसटीसी ज़रूरत के अनुसार संयंत्र की मांग कम और ज्यादा कर सकता है और प्रदायक को बढी हुई मात्रा निर्धारित समय के भीतर और उन्ही नियम और शर्तों में सप्लाई करना होगा ।
12. बोली के आधार पर अंतिम निर्णय लेने से पहले, अगर डी.जी.एस.&डी रेट कॉन्ट्रैक्ट का नवीकरण होता है या डी.जी.एस.&डी नयी दर अनुबंध सूचित करता है, एसटीसी को अनुबंध रद्द करने का और डी.जी.एस.&डी रेट अनुबंध के अनुसार संयंत्र क्रय का अधिकार है ।
13. संयंत्र की आपूर्ति के लिए तकनीकी बोली में सिर्फ एक ही मॉडल की बोली लगा सकते है, यदि बिडर ने एक से अधिक मॉडल की बोली लगायी, बोली को खारिज कर दिया जा सकता है ।
14. अनुमोदित आपूर्तिकर्ता के लिए यह समझा जायेगा कि उसने आपूर्ति किये जाने वाले माल के सन्दर्भ में शर्तों, विनिर्देशों, आकार, मेक और ड्राइंग आदि की सही प्रकार से जांच कर ली है, यदि उन्हें इन शर्तों के किसी भाग के सन्दर्भ में या विनिर्देशों अथवा ड्राइंग आदि के सन्दर्भ में कोई संदेह है तो वे संविधा पर हस्ताक्षर करने से पहले एसटीसी को सूचना सुपुर्द कर दें और स्पष्टीकरण मांगे ।
15. आफरों की समान तुलना और मूल्यांकन के उद्देश्य हेतु, विभिन्न मुद्राओं में उद्धरित मूल्यों को भारतीय स्टेट बैंक द्वारा स्थापित मूल्य बोली प्रारंभ होने की तारीख की टीटी बिक्री दर के अनुसार एकल मुद्रा यानि भारतीय रूपए में बदल दिया जायेगा । मूल्यों की तुलना और एल१ निविदाकर्ता की पहचान एफओआर गंतव्य आधार पर, विधिवत डिलीवर करके, छूट आदि देकर, जैसा भी मामला हो, होगी ।
16. निविदाएं खुलने के पश्चात् प्राप्त ऑफर्स को अंतिम प्रयोक्ता विभाग के पास उनके मूल्यांकन हेतु अग्रेषित कर दिया जायेगा ।
17. भाग लेने वाले निविदाकर्ता एसटीसी की निविदा की शर्तों को बिना शर्त और असंदिग्ध रूप से स्वीकारते हुए निविदा कागजात के प्रत्येक पृष्ठ पर मोहर सहित हस्ताक्षर करेंगे और इसे ऑफर (तकनीकी निविदा) के साथ प्रस्तुत करेंगे । एसटीसी की निविदा शर्तों को उपयुक्त रूप से स्वीकार न करने वाले ऑफर एक दम निरस्त कर दिए जायेंगे ।

18. उन निविदाकर्ताओं की वित्तीय निविदाएं बाद में खोली जाएंगी जिनकी तकनीकी निविदाएं अनुमोदित हैं ।
19. सफल निविदाकर्ता को निविदा/ आर्डर देने पर कीमत के १०% के बराबर भारतीय मुद्रा में और उपकरण के गारंटी अवधि तक वैध संविधा के सही नि-पादन के लिए निविदाकर्ता (अवार्डी) द्वारा न-पादन गारंटी प्रस्तुत की जाएगी जो निर्धारित प्रपत्र में संलग्न अनुसूची बी के अनुसार भारत के एक राष्ट्रीय बैंक के माध्यम से अंतिम प्रयोक्ता विभाग के पक्ष में होगी ।

गारंटी उपरोक्त रूप में दी जाएगी, और गारंटी अवधि के दौरान अगर कोई विनिर्माण दोष पाया जाता है, निविदाकार का उत्तरदायित्व होगा मशीनरी को ऑपरेटिव करना । यदि मशीनरी का कोई हिस्सा दोषपूर्ण पाया गया, निविदाकार का उत्तरदायित्व होगा मशीनरी की मरम्मत कराना । निविदाकार मशीनरी और उपकरणों के लिए आवश्यक स्पेयर पार्ट्स की आपूर्ति सुनिश्चित करने के लिए जिम्मेदार होंगे, फिर चाहे वार्षिक रखरखाव या अनुबंध के तहत मरम्मत दर हो ।

मॉडल के परिवर्तन के मामले में, निविदाकार एसटीसी को पर्याप्त सूचना देगा जो स्पेयर पार्ट्स मशीनरी और उपकरणों को सही हालत में रखने के लिए खरीद सकते हैं ।

20. निष्पादन गारंटी जब्त करना - निष्पादन गारंटी निम्नलिखित मामलों में जब्त की जा सकती है :-
1. जब संविधा की किसी भी शर्त या नियम का उल्लंघन हो
 2. जब निविदाकर्ता सम्पूर्ण आपूर्ति संतोषजनक रूप से करने में असमर्थ रहता है
 3. सेवा स्तर अनुबंध का गैर अनुपालन
21. निविदाकर्ता उपयुक्त पैकिंग के लिए जिम्मेदार होगा ताकि गंतव्य स्थल पर परेषिती को समुद्री रेल और सड़क मार्ग द्वारा माल की डिलीवरी सही स्थिति में की जा सके और किसी भी नुकसान से बचा जा सके । किसी मामले में किसी प्रकार की हानि/ क्षति, ब्रेकेज या लीकेज या कोई कमी होने पर इस प्रकार की हानि के लिए पूर्ति करने हेतु निविदाकर्ता जिम्मेदार होगा तथा परेषिती द्वारा सामग्री की जांच किये जाने पर पाए जाने वाली कमी और हानि की क्षतिपूर्ति करेगा । इस प्रकार के मामले में कोई अतिरिक्त लागत की अनुमति नहीं होगी ।
22. एसटीसी/ क्रय अधिकारी किसी भी समय आपूर्ति हेतु संविधा को रोक सकता है यदि आपूर्ति उसकी संतुष्टि में नहीं की जा सकती है लेकिन इससे पहले वे निविदाकर्ता को एक मौका देगा कि वह उस नुकसान की भरपाई कर सके ।
23. निरीक्षण :- अंतिम प्रयोक्ता या उसका सही प्रकार से प्राधिकृत प्रतिनिधि की हमेशा आपूर्तिकर्ता के परिसर तक पहुँच होगी तथा उसके पास यह शक्ति होगी कि वह किसी भी समय माल के निर्माण के दौरान अथवा उसके पश्चात् सामग्री तथा सामग्री की क्षमता का

निरीक्षण कर सके | निविदाकर्ता सही समय पर अपने कार्यालय, मालगोदाम और क्षमता के परिसरों का सम्पूर्ण पता भेजेगा जहाँ पर कि निरीक्षण किया जा रहा है, किसके साथ उस व्यक्ति का नाम और पता भी होगा जिससे इस उद्देश्य हेतु संपर्क किया जाता है | उन मामलों में जहाँ डीलर जिन्होंने इस व्यवसाय में नए रूप से प्रवेश किया है उनके बैंकर्स से एक उनके परिचय का पत्र आवश्यक होगा | निरीक्षण के लिए उत्तर प्रदेश फायर सर्विस के तीन अधिकारियों का खर्चा आपकी बोली में शामिल होना चाहिए |

24. आकास्मिक सेवाएं :- निम्नलिखित सेवाओं के प्रभार पेश किये गए मूल्य में शामिल करें :-
1. साईट पर प्रदर्शन एवं आपूर्तिकर्ता संयंत्र के चालू करवाने हेतु
 2. आपूर्तिकर्ता संयंत्र के असेंबली और रखरखाव के लिए उपकरणों की साज-सज्जा
 3. आपूर्ति संयंत्र के प्रत्येक उचित इकाई के लिए विस्तृत संचालन और रखरखाव मैनुअल
 4. आपूर्ति संयंत्र के प्रदर्शन पर्यवेक्षण रखरखाव और मरम्मत दलों द्वारा निर्धारित अवधि के लिए जब तक अनुबंध में प्रदायक के लिए वारंटी दायित्व है
 5. क्रेता के कर्मियों की प्रदायक के संयंत्र पर और अस्सेम्बल्य चालू करवाने, ऑपरेशन रखरखाव, व मरम्मत के प्रशिक्षण का संचालन करना |
 6. उपकरण निर्माता के कारखाने परिसर में फायर अधिकारियों की ट्रेनिंग का खर्चा अपनी बोली में शामिल करें |
25. अस्वीकृति :- निरीक्षण या परीक्षण के दौरान अनुमोदित न किये गए आर्टिकल्स अस्वीकार कर दिए जायेंगे तथा इन्हें खरीद अधिकारी द्वारा सुनिश्चित की गई अवधि पर निविदाकर्ता द्वारा उसकी अपनी लागत पर बदला जायेगा | तदपि यदि सरकारी कार्य की अत्यावश्यकता के कारण यदि यह संभव नहीं है तो खरीद अधिकारी निविदाकर्ता को एक मौका दिए जाने के बाद अनुमोदित दरों पर एक उपयुक्त राशि की कटौती कर लेगा और की गयी कटौती अंतिम होगी |
26. एसटीसी अंतिम प्रयोक्ता विभाग को हाईसीज बिक्री आधार पर माल की बिक्री करेगा | सभी सीमा शुल्क निकासी कागजात और बीमा के साथ हाईसीज बिक्री करार सहित आपूर्तिकर्ता के नामांकित सीमा शुल्क समाशोधन एजेंट को प्रस्तुत किए जायेंगे |
27. अस्वीकृत आर्टिकल्स अस्वीकृति की सुचना के १५ दिनों के अन्दर निविदाकर्ता द्वारा हटा दिए जाएँगी जिसके पश्चात् खरीद अधिकारी किसी प्रकार की हानि कमी या क्षति के लिए जिम्मेदार नहीं होगा तथा उसे यह अधिकार होगा कि वह इस प्रकार के आर्टिकल्स हटा दे जिसे च निविदाकर्ता के जोखिम और लेखे पर हटा सकेगा |
28. आपसे अनुरोध है कि भारत में बिक्री पश्चात् सेवा कार्य का विवरण दें | आर्टिकल्स भारत में आपके सेवा प्रतिनिधि का नाम उसका पूर्ण पता और संपर्क की संख्या की सुचना ऑफर के साथ भेजी जाये ताकि इसे अंतिम प्रयोक्ता को सूचित किया जा सके |
29. मात्रा को कम या ज्यादा करने का अधिकार एसटीसी को प्रापण किए जाने वाले उपकरणों की मात्रा को बढ़ाने या कम करने का अधिकार है |

30. किसी प्रकार का विचलन स्वीकार नहीं किया जायेगा | निविदाकर्ता को निम्नलिखित प्रमाणपत्र पर सही प्रकार से हस्ताक्षर करते हुए और मुहर लगाते हुए उसे प्रमाणित करना होगा |

प्रमाणपत्र

प्रमाणित किया जाता है कि निविदा स. एसटीसी/जीआईडी/४३३/२०१५-१६ दिनांक १५.१२.२०१५ पर संलग्न ऑफर निविदा शर्तों और निबंधनों की सम्पूर्ण पुष्टि में है जिनमे कोई विचलन नहीं है |

निविदाकर्ता के हस्ताक्षर
निविदाकर्ता के नाम और पदनाम
कंपनी की मुहर

स्थान

तारीख

31. परिसमाप्त क्षतियाँ - परिसमाप्त क्षतियों सहित डिलीवरी अवधि में बढ़ोतरी के मामले में वसूली भण्डारन के मूल्य के निम्नलिखित प्रतिशत के आधार पर की जाएगी जिसकी निविदाकर्ता आपूर्ति करने में असमर्थ रहा है |

निर्धारित डिलीवरी अवधि की १ चौथाई अवधि तक के विलम्ब के लिए	२.५ प्रतिशत
१ चौथाई से अवधि तक का विलम्ब किन्तु जो निर्धारित अवधि के आधे समय से ज्यादा ना हो	५ प्रतिशत
आधी अवधि से अधिक का विलम्ब किन्तु जो निर्धारित अवधि की ३ चौथाई से ज्यादा ना हो	७.५ प्रतिशत
निर्धारित अवधि के ३ चौथाई से अधिक का विलम्ब	१० प्रतिशत

आपूर्तियों में विलम्ब की अवधि के गणन हेतु एक दिन का कुछ हिस्सा हटा दिया जायेगा यदि यह आधे दिन से कम है | परिसमाप्त क्षतियों की अधिकतम राशि १० प्रतिशत होगी | यदि आपूर्तिकर्ता किसी बाधा के फलस्वरूप संविदाकृत आपूर्ति को पूर्ण करने के लिए समय में बढ़ोतरी चाहता है तो उसे लिखित में प्राधिकारी को आवेदन करना होगा जिसने की आपूर्ति आदेश दिया है और ऐसा तत्सम्बंधित बाधा के होने पर तत्काल सूचित करना होगा किन्तु ऐसा आपूर्तिपूर्ण होने की तारीख के बाद नहीं किया जा सकेगा |

32. वसूलियां :- परिसमाप्त क्षतियों, कम आपूर्ति, ब्रेकेज, अस्वीकृत आर्टिकल्स वस्तुओं हेतु वसूलियां सामान्य बिलों में से कर ली जाएगी | राशि को कम आपूर्ति, ब्रेकेज, अस्वीकृत वस्तुओं की सीमा तक के लिए रोका जा सकता है तथा किसी मामले में आपूर्तिकर्ता द्वारा संतोषजनक स्थानापन्न करने में असमर्थ होने पर जिसमें परिसमाप्त क्षतियों की राशि भी शामिल है ऐसे मामले में वसूलियां विभाग में उपलब्ध उसके बकायों और सुरक्षा जमा में से की जाएगी | किसी मामले में यदि वसूली इन साधनों से संभव नहीं है तो वसूली उत्तर प्रदेश पीडीआर अधिनियम या लागू किसी अन्य कानून के अधीन की जाएगी |
33. आपूर्तिकर्ता बगैर किसी विरोध या विलंब के एसटीसी और इसकी शाखाओं को क्षतिपूर्ति करने का वचन देता है और हमेशा एसटीसी को पूर्णतया क्षति पूर्ति से मुक्त रखेगा तथा एसटीसी और इसकी शाखाओं को आपूर्तिकर्ता/हैंडलिंग एजेंट/चूक/लापरवाही/गलती/कदाचार अथवा इस करार की शर्तों और नियमों को पूरा न करना, इनका उल्लंघन करना अथवा चूक के फलस्वरूप सामग्री, किसी भी प्रकार के खर्च या लागतें जो एसटीसी पर आती हैं, उनके संदर्भ में किसी भी प्रकार की हानि, दावे, कार्रवाई, क्षति, विलंब शुल्क, लागतों, जुर्माने, कर, शुल्क, देयताएँ, विधिक मामले, कम पोतलदान, मात्रा/गुणवत्ता/भार/शुद्धता में कमी, विपणन/विनिर्देशनों की कमी आदि के लिए एसटीसी और इसकी शाखाओं को इस संदर्भ में हानि रहित रखने से सहमत है | आपूर्तिकर्ता, एसटीसी को हमेशा किसी भी तीसरी पार्टी से किसी भी प्रकार के दावे/देयताओं/कार्रवाइयों अथवा इस निविदा के संबंध में अथवा इसके फलस्वरूप उठने वाले किसी प्रकार के दावे/देयताओं/कार्रवाइयों को विरुद्ध एसटीसी को हमेशा क्षतिपूर्ति का वचन देगा |
34. एसटीसी, के पास पूर्ण विवेक से प्रत्याशित पार्टी को पूर्व सूचना दिए बगैर प्रक्रिया को आंशिक या पूर्ण रूप से सूची में डालने, स्वीकार करने, अस्वीकृत करने, त्यागने, रद्द करने का अधिकार सुरक्षित है | इस निविदा को किसी भी समय बिना कोई कारण बताए रद्द करने का अधिकार एसटीसी के पास सुरक्षित है |
35. पार्टियों के बीच निर्माण, अर्थ, क्षेत्र, प्रचालन के कारण या उससे संबंधित या इस संविदा के प्रभाव या उसके भंग होने की वैधता भारतीय मध्यस्थता परिषद की मध्यस्थता नियमावली के अनुसरण में मध्यस्थता द्वारा सुलझाए जाएंगे और उसके फलस्वरूप दिया गया पंचाट दोनों पार्टियों पर बाध्यकर होगा |
36. आपूर्तिकर्ता इससे सहमत है कि नई दिल्ली में न्यायालय और न्यायाधिकरण किसी या सभी विवादों जो निविदा से या उसके संबंध में उठेंगे, को निपटाने के लिए विशेष न्याय-क्षेत्र रखेंगे | इस निविदा से उठने वाले सभी विवाद भारतीय कानून के अनुसरण में तय होंगे |
37. एसटीसी के साथ अंतिम प्रयोक्ता विभाग के सभी निबंधन और शर्तें आवश्यक परिवर्तन सहित सफल निविदाकर्ता पर लागू होंगी |
38. आपूर्तिकर्ता अपने अनुबंध को किसी और एजेंसी को आवंटित या उप-लशकर नहीं कर सकता
39. बोलियों की प्रस्तुति

1. इस निविदा पर बिड्स एनआईसी (eprocure.gov.in) के ई-प्रोक्योरमेंट पोर्टल के माध्यम से केवल इलेक्ट्रॉनिक रूप में ही प्राप्त की जाएंगी | हार्ड कॉपी उया किसी अन्य रूप में कोई बिड्स स्वीकृत नहीं होगी |
2. बिड्स जमा करने के लिए, निविदाकर्ताओं से अपेक्षा है कि वे वर्ग II/ वर्ग III डिजिटल हस्ताक्षर प्रमाणपत्र प्रयोग करते हुए eprocure.gov.in वेबसाईट में स्वयं को पंजीकृत कराएं
3. धरोहर जमा राशि (ईएमडी) एसटीसी के पास बिड जमा होने की अंतिम तिथि और समय से पहले पहुँच जानी चाहिए |
4. निविदाकर्ताओं से अपेक्षा है कि वे बिड के २ भागों यानि तकनीकी एवं वित्तीय की सॉफ्ट कॉपी अपलोड करें |
5. निविदाकर्ता बिड जमा करने की अंतिम तिथि और समय से पहले, अपनी ई बिड जमा करने के बाद परिवर्तित कर सकता सकता है, विकल्प दे सकता है या वापिस के सकता है | कोई भी विकल्प नहीं दिया जायेगा या वापिस नहीं लिया जायेगा |
6. एसटीसी सभी निविदाकर्ताओं से बिड प्रक्रिया के दौरान किसी भी समय उनकी ऑनलाइन बिड के भाग के रूप में जमा किये गए किसी या सभी मूल कागजातों को जमा करने के लिए कह सकता है |
7. ई बिड्स के परिवर्तन हेतु निविदाकर्ता को ई टेंडरिंग पोर्टल से अपने पुराने प्रस्ताव को हटाना है और डिजिटल रूप से हस्ताक्षरित परिवर्तित बिड को अपलोड/ पुनः जमा करना है
40. ऑनलाइन बिड जमा करने की प्रक्रिया से सम्बंधित प्रश्न या प्रोक्योरमेंट पोर्टल (eprocure.gov.in) से सम्बंधित प्रश्नों के लिए, निविदाकर्ता सीपीपी पोर्टल हेल्प डेस्क या टेलीफोन नंबरों पर संपर्क कर सकते हैं |

मुख्य प्रबंधक (विपणन)
प्रत्यक्ष टेलीफोन नंबर २३४६२१२९/२३४६२२८६

नई दिल्ली

Following Equipments are to be supplied along with the CFTs in properly stored Lockers with designated places and appropriate Quick-release Clippings:

Sl. No.	Equipment for Rescue Operation	Quantity	Appendix /Standard	Accepted	Deviation
A.	ITEMS TO BE SUPPLIED FROM INDIA/ WORKS OF SUPPLIER				
1.	Aluminum Extension Ladder, 10.5M Length	1 no.	EN / CE marked		
2.	Universal Branch Pipe (Diffuser Branch), 63 mm Male Instantaneous Inlet, Gunmetal Material	1 no.	IS:2871		
3.	Standard Branch Pipe with 19 mm Nozzle, 63 mm Male Instantaneous Inlet, Gunmetal Material	2 nos.	IS:903/Equivalent		
4.	Nozzles for Standard Branch Sizes: a. 12	1 no. each	IS:903/Equivalent		
5.	Nozzle Spanner	1 no.	IS:903/Equivalent		
6.	Foam Making Branch, FB 5X type with	2 nos.	IS:2097/Equivalent		
7.	Foam Making Branch, FB 10X type with	2 nos.	IS:2097/Equivalent		
8.	Safety Goggles	4 pairs	Appendix – I		
9.	Reusable Ear Plug	25 pairs	Appendix - II		
10.	Chocks	1 pair	Appendix – III		
11.	Suction Hose for Pump complete with Round thread Gunmetal Couplings, 2.5 M	4 Lengths	IS:2410/Equivalent		
12.	Suction Strainer for Pump, Gunmetal	1 no.	IS:907/Equivalent		
13.	Suction wrench for 125 mm suction hose	2 nos.	IS:4643/Equivalent		
14.	Suction adopter GM 125 mm female x 63	1 no.	IS/Equivalent		
15.	Jack Hydraulic for 20 Ton capacity with	1 no	IS/Equivalent		
16.	Branch with revolving head, GM 63 mm	1 no.	IS:906/Equivalent		
17.	Portable LED Emergency Light with	1 no.	Appendix IV		
18.	Hydraulic door opening kit	1 no.	EN / Equivalent		
19.	Cutter Bolt, 61 cm	1 no.	IS: 319 / Equivalent		
20.	Crowbar, 95 cm	1 no.	IS:704 / Equivalent		
21.	Hook, Grab or salving	1 no.	IS: 5068 / Equivalent		

Sl. No.	Equipment for Rescue Operation	Quantity	Appendix/ Standard	Accepted	Deviation
B.	ITEMS TO BE SUPPLIED FROM WORKS OF SUPPLIER				
1.	Fireman Axe with belt & pouch	3 nos.	EN/Equivalent		
2.	Hydraulic Spreader & Cutter with	1 no.	Appendix – V		
3.	Power Driven Circular Saw with	1 no.	Appendix – VI		
4.	Pneumatic Lifting Airbag with	1 no.	Appendix – VII		
5.	Seat Belt/Harness Cutting Tool	3 nos.	EN/Equivalent		
6.	Gloves, Fire Resistant with Anti-skid	8 nos.	EN/Equivalent		
7.	Fog/Jet Nozzle with Hand-Control, 63 mm Male Instantaneous Inlet, Discharge 750 LPM @ 7 Bar Pr.	1 no.	NFPA1964/Equivalent		
8.	Quick Release knife with pouch to be	5 nos.	EN/Equivalent		
9.	Hand line Nozzle with selectable flow, pistol grip and shut-off with double stops	1 no.	NFPA1964/Equivalent		
10.	Zero torque nozzle with hand control 63mm male instantaneous inlet, discharge 750 LPM @ 7 bar	1 no.	NFPA 1964/ Equivalent		

TECHNICAL SPECIFICATIONS FOR SAFETY GOGGLES

Appendix -I
Appendix -I

Sl. No.	ITEM	DISCRIPTION	Accepted	Deviation
1.	Application	Safety goggles shall primarily provide optimum vision in indoor and outdoor applications and protection against impact & optical radiation by reducing glare and bright light.		
2.	Lens Quality & Material	<p>a. It shall have clear dual-aspheric planopolycarbonate lenses with prescription-quality clarity.</p> <p>b. Lenses shall provide 99.99% U.V. protection, excellent sharpness and contrast.</p>		
3.	Lens Coating	Lens shall have coatings to provide properties of anti fog, anti scratch, anti chemical and anti static.		
4.	Frame Design & Construction	<p>a. It shall have a lightweight a dual-injected molded frame.</p> <p>b. It shall have the facility to change the lens as and when required by keeping the same frame.</p>		
5.	Safety & Ergonomics	<p>a. Dual-injected cushion brow guard and universal fit nose-bridge pivots.</p> <p>b. It shall have a wrap-around design for superior orbital eye socket coverage.</p> <p>c. There shall be ventilation channel that helps prevent fog and heat by channeling warm/moist air out and cool air in for added comfort.</p> <p>d. It shall have adjustable temple lengths to help wearers get the best possible comfort and slip-proof fit.</p> <p>e. It shall have a pantoscopic lens adjustment to move lens up and down on the face for optimum fit and sightline.</p>		
6.	Packing	It shall be supplied with a lanyard and a storage bag.		
7.	Certification	The eyewear shall be approved to ANSI Z87.1/EN or equivalent		

TECHNICAL SPECIFICATIONS FOR REUSABLE EAR PLUG

Appendix- II
Appendix- II

Sl. No.	ITEM	DISCRIPTION	Accepted	Deviation
1.	Design & Construction	It shall be of premolded, 3-flanged design. It shall be washable to promote work hygiene.		
2.	Ergonomic	It shall be comfortable fitted to wide variety of ear canal sizes and there shall not be any touching of plug portion during insertion.		
3.	Packing	Each pair shall be supplied with a breakaway cord. The packing shall be a convenient carrying case to keep plugs clean when not in use.		

4.	Attenuation	It shall have a Mean Attenuation of NRR 25 db and SNR of 32 db measured as per ANSI S3.19/ EN or		
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TECHNICAL SPECIFICATIONS FOR CHOCKS

Appendix- III
Appendix- III

Sl. No.	ITEM	DISCRIPTION	Accepted	Deviation
1.	Size	15"		
2.	Material	Polyethylene		
3.	Design & Construction	One-piece moulding, Non-slip, water & oil-resistant, Lightweight, floats on water, Having high friction factor		
4.	Allowable Strength	100 kg/cm2 in all directions		
5.	Certification	Confirming to International Standard.		

Appendix IV

TECHNICAL SPECIFICATION FOR LED LIGHT

Sl. No.	ITEM	DISCRIPTION	Accepted	Deviation
1.	Weight	Not more than 3.5 KG		
2.	Range	Not less than 400 meter		
3.	Power	High Peak Beam 50,000 CD (Minimum) Low Peak Beam 20,000 CD (minimum)		
4.	RUNNING TIME	High beam 2Hr (Minimum) Low beam 4 Hours (minimum)		
5.	BATTERY	Not less than 4.0 A/h NiCad/Li Ion 12V Rechargable		
6.	CHARGE TIME	12-14 hrs from flat battery for Standard Charger 2.5 hrs from flat battery for Fast Charger		
7.	WATER RESISTANCE	To IP 65		
8.	BULB	Ultra white LED		

TECHNICAL SPECIFICATIONS FOR HYDRAULIC SPREADER AND CUTTER WITH PUMP & ACCESSORIES

	Accepted	Deviation
<p>1. GENERAL The unit shall be safer for heavy duty performance during rescue and salvage operation. The unit shall provide maximum advantage of power to weight ratio to maximize the effort of firefighter with least possible weight of equipment.</p>		
<p>2. PUMP DRIVEN BY PETROL ENGINE</p>		
<p>2.1 Should be able to operate cutter and spreader at the same time.</p>		
<p>2.2 Weight not more than 25 KG, fully/ ready for operation as per EN 13204/equivalent (incl. couplings, engine oil & hydraulic oil and fuel).</p>		
<p>2.3 Size & Type: As compact as possible</p>		
<p>2.4 Source of energy: 4-stroke petrol engine air-cooled capable of producing adequate power/pressure to operate cutter and spreader both at a same time at their max performance level.</p>		
<p>2.5 Fuel Tank: Capacity more than 1-hour operation in one fill.</p>		
<p>2.6 Oil Tank Not less than 3.5 ltrs usable oil content.</p>		
<p>2.7 Output: Should be capable of giving adequate output at each stage and desired working</p>		
<p>2.8 Noise Level: Less than 85 dB (A) at distance of 1 mtr. (EN: 13204) /equivalent.</p>		
<p>2.9 Safety: Provision of safety valves at each stage is essential in addition to excess pressure release valve. The system shall comply with all safety requirements specified in EN: 982. And EN: 60204-1/equivalent.</p>		
<p>2.10 The pump shall be 4-stroke air-cooled petrol engine with minimum 2.2 KW, working with mineral non- toxic oil and should have following additional features:</p>		
<ul style="list-style-type: none"> i. Single switch operation ii. Protection cap for spark plug iii. Easy excess for filing of fuel and oil iv. Provision of large and clear gauges for hydraulic oil and fuel level indication v. Carrying handle of adequate sizes strength with non-slip pads vi. Electronic engine speed control vii. Integrated lighting for night operation 		
<p>3. HOSE</p>		
<p>3.1 The pump shall be supplied with a heavy duty hydraulic co-axial (High Pressure hose within return hose) suitable for operating all the tools having a working pressure of not more than 750 bar and tested to a pressure of not less than 2 times the working pressure coupled with single hose coupler.</p>		
<p>3.2 The bursting pressure shall be 4 times the working pressure.</p>		
<p>3.3 The hose and hose assembly shall have minimum resistance against abrasion, fluids and ozone as stated in EN: 853, 855, 856 and 857/equivalent.</p>		
<p>3.4 The quantity of hose with instantaneous couplers preferably mounted on a hose reel shall be as follows:</p>		

	a. 10 mtrs: 2 nos. b. 20 mtrs: 2 nos.		
3.5	Hose shall be made of suitable components and design to perform the task without any personal safety hazard. The hose shall confirm to EN: 13204/equivalent.		
3.6	Color code as per international code.		
3.7	Shall have quick coupler to prevent inadvertent disconnection.		
4.	CUTTER FOR RESCUE (as per EN: 13204/ NFPA 1936/equivalent)		
4.1	Shall be made of anticorrosive material with the provision of carrying handles for operating the cutter in all directions for safe and easy operation.		
4.2	The equipment shall be ultra light weight and capable to use under water		
4.3	Weight shall not exceed more than 20 kg		
4.4	Cutting force not less than 100 tons and shall be able to cut 40 mm steel round bar		
4.5	Jaw width not less than 180 mm		
4.6	Blade design: - U-shaped 90 degrees blade angle.		
4.7	Anodized for corrosion resistance.		
4.8	Maximum Working Pressure: 750 bar		
4.9	Testing pressure shall be 1.5 times of working pressure.		
4.10	Easy and ergonomic operation		
4.11	Operation temperature 18° C to 55° C		
5.	SPREADER FOR RESCUE (as per EN: 13204/ NFPA 1936/equivalent)		
5.1	Should be made of anticorrosive material with the provision of carrying handles for operating the spreader in all directions for safe and easy operation.		
5.2	Spreading force not less than 32 tons and not less than 4 tons measured at 25 mm from the tips as per EN 13204/equivalent.		
5.3	Weight should not exceed more than 20 kgs		
5.4	Spreading distance not less than 650 mm		
5.5	Pulling force not less than 7.5 tons.		
5.6	Must be ultra light weight and suitable for use under water		
5.7	Teeth double edged, should be capable of spreading & squeezing. Tips must have possibility to be changed without the use of tools.		
5.8	Check valves for all operating parameters		
5.9	Maximum working pressure 750 Bars		
5.10	Testing pressure shall be 1.5 times of working pressure.		
5.11	Quick lock system for tips & chain pulling set and adaptors.		
6.	CHAINS		
6.1	Metallic provided with suitable eye and hook for the spreader.		
6.2	Length: 1.5 mtrs– 1 no 3 mtrs – 1 no.		
6.3	Strength: Shall be capable of working at more than the force exerted by spreader.		
7.	TELESCOPIC RAM (as per EN: 13204/ NFPA 1936/equivalent)		
7.1	The ram cylinder shall be double acting hydraulically operated device of lightweight construction suitable for manual application with ease.		
7.2	The telescopic ram shall be capable of lifting and spreading operation. Built in speed valve for faster operation.		

7.3 The telescopic ram shall have following specification:				
Sl.No.	Description of activity	Range of activity		
1.	Max. Spreading force 1st plug	Not less than 20 Ton		
2.	Max. Spreading force 2nd plug	Not less than 08 Ton		
3.	Length retracted	Not more than 575 mm		
4.	Length extended	More than 1250 mm		
5.	Stroke 1st plug	Not less than 370 mm		
6.	Stroke 2nd plug	Not less than 330 mm		
7.	Total stroke	Not less than 700 mm		
8.	Weight	Not more than 22 kgs		
1.1 Maximum working pressure 750 bars				
1.1 Testing pressure shall be 1.5 times of working pressure.				
2. OTHER REQUIREMENTS				
2.1 Best power to weight ratio				
2.2 Shall be suitable for use under water				
2.3 ISO: 9001 certification (desirable)				
3. TRAINING				
The supplier shall undertake to train free of cost the purchaser's personnel at installation site.				
4. SPARES & TECHNICAL MANUAL				
The sets of Technical Manuals and essential spares shall be supplied.				
5. PERFORMANCE CERTIFICATE				
The supplier/fabricator submitting the offer will have to provide the authorized certificate with performance certificate obtained from the manufacturer without which the offer shall not be considered.				
6. GUARANTEE/WARRANTY				
The supplier shall have to furnish a maintenance guarantee under taking for service, repairs, replacement, maintenance etc., in and against any defect in the materials used for 24 calendar months commencing from the date of acceptance and the manufacturer will replace or repair any part or parts free of costs.				

TECHNICAL SPECIFICATION FOR POWER DRIVEN CIRCULAR SAW WITH ACCESSORIES

Sl. No.	ITEM	DISCRIPTION	Accepted	Deviation
1.	Engine	2/4 Stroke single cylinder petrol Engine 4.5 HP with Electronics Ignition system & Recoil Starter along with air-cooled having diaphragm carburetor. Self-Compensating carburetor that maintains continuous and regular full power in any conditions.		
2.	Engine Speed	Min-2500 RPM Max- 10,550 RPM		
3.	Fuel	Petrol start & petrol run		
4.	Fuel Tank	Not less than 0.5 liters and not more than 1.5 liters		
5.	Power Transmission system	Automatic centrifugal clutch, V-Ribbed belt type Driven system Heavy Duty sealed Multi V Ribbed belt for constant grip which reduces the slippage and indicator is fitted on the external side which is helpful in maintaining the convenient belt tensioning		
6.	Power Output	Not less than 3 KW		
7.	Safety Device	a) Wheel Guard Equipped with Spring Loaded Stainless steel Wheel Guard while the operator is cutting a material it will adjust itself automatically and hence reducing the pressure on the operator b) Throttle Lock-out having throttle lock-out		
8.	Handle	Handle should be full wrap for ease of use with gloves and large rubber coated secured grip & also work as anti vibration		
9.	Stopping	There should be momentary contact switch which is always in 'On Position' ready to start with just starter Handle within seconds		
10.	Anti Vibration	There should be anti vibration System, which reduces the fatigue for the Operator with T-point support and isolating the handle as much as possible from the engine and cutting blade		
11.	Cutting Depth	Not less than 3 inch		
12.	Noise Power Level	Max 105 dBA		
13.	Vibration Level	Vibration Level is Not more a) Front Handle - 10 m/sec (Ideal) b) Rear Handle - 09 m/sec (Ideal)		
14.	Cut-off wheel	Circular Saw with Diamond Blade in which Diamonds are		
15.	Cutting parameters	Metals, Security Bars, Iron Rods, Iron Chain, Reinforced Concrete, Stones, Rock, Block Steel Auto Body, Glass, Cock pit, Bullet Proof Glass, Hurricane Glass, Rubber, Plastic & More etc.		
16.	Typographic test	Circular saw is working in temperature range from -10° to 50°		
17.	Dimension	Not exceeding 825 x 390 x 390 (mm)		
18.	Weight	Not more than 13 kgs		
19.	Applications	It should cut any material found at Fires, Building Collapses, natural Disasters, Terrorist Attacks, Car Accidents & other Rescues etc.		

20.	Reversible Cutting Arm	It should be provided with Reversible cutting Arm to so that, it allows the user to cut any material in the “outboard” position, to allows the user to make a “flush”		
21.	Priming bulb	Priming bulb should be provided to make smooth and easier starting by pressing the priming bulb few times, to clean the bad gasoline out from the cylinder and clean gasoline into the cylinder which makes it easier for the engine to start.		
22.	Stable Base	It should be provided with stable base designed to keep system straight on the ground which maintains distance/ gap between the blade and ground and it doesn't harm the blade		
23.	Endurance	The machine should be capable of operating continuously not less than one hour without overheating		
24.	Spares	One set of 1. Fast moving spare must be supplied with machine 2. Tool kit also be supplied with machine		
25.	Training	Operation and maintenance staff shall be trained on machine		
26.	Spares & Technical	The sets of Technical Manuals and essential spares shall also be supplied.		
27.	Performance Certificate	The supplier submitting the offer will have to provide the authorized certificate with performance certificate obtained from the manufacturer without which the offer shall not be considered.		
28.	Guarantee/ Warranty	The supplier shall have to furnish a maintenance guarantee under taking for service, repairs, replacement, maintenance etc., in and against any defect in the materials used for 24		

TECHNICAL SPECIFICATION FOR PNEUMATIC LIFTING AIRBAG WITH ACCESSORIES

1. GENERAL High pressure pneumatic rescue bags capable of lifting heavy loads in harsh environment and with standing rough uses of fire brigade/ rescue operation.		
2. DESIGN The Pneumatic Lifting Airbags should be able to stack to make modular system to achieve greater height and lifting capacity without skidding. The connection of bags should be through open or closed connectors allow all the bags together or separately. Bags should also have an integrated hand point.		
3. CONSTRUCTION & MATERIAL Pneumatic Lifting Bag should be constructed of Kevlar reinforced nitrile rubber with 3 layers aramide reinforcement covering the entire top and bottom surface of lifting bag with highly tear proof polyamide fabric. Each Pneumatic Lifting Bags should be equipped with a brass valve connection 1/8" NPT internal thread and vulcanized into the reinforced corner of bag to which a male connector of quick connect coupling should be threaded in. This male connector should be replaceable if it is damaged. The colour of Airlifting shall be fluorescent type for better visibility during night operations.		
4. LIFTING CAPACITY		
4.1 Working Pressure: minimum 8 bar		
4.2 Capacity: minimum 40 ton		
4.3 Insertion height: Max. 25mm		
4.4 Lifting height: Min. 400mm		
4.5 Dimensions: Approx 700 X 700mm		
4.6 Weight: Not more than 16kgs		
4.7 Water capacity : Not more than 80 liters		
4.8 Minimum bursting pressure: 32 bar.		
5. HOSES		
5.1 All the hoses should be equipped with a quick connect/disconnecting male and female couplings, compatible with entire air lifting bag system. The colour of hoses should be black/yellow/ Red.		
5.2 The hoses should have minimum working pressure of 16 bar and should be capable of using in temp range of -40 0 C to + 80 0 C.		
5.3 The hoses should be either of polyester or thermo plastic material.		
5.4 The hoses should be resistant to Ultra Violet Light, change of colour, stress or cracking.		
5.5 Two shut off hoses with built in safety valve should be provided to release the pressure between 8.5 bar and 10 bar.		
6. PERFORMANCE REQUIREMENT		
6.1 Inflation should be pneumatic.		
6.2 Insertion thickness not more than 25 MM.		
6.3 Working pressure not more than 10 bars.		
6.4 Safety factor > 4		
6.5 Dead Man space – NIL		
6.6 Working Temperature – 50 C to 65 C.		
6.7 Point loading should be possible. There should not be any stress point.		
6.8 Lifting should be continuous, Noiseless & jolt free. The surface of bags should be inter locking non- skid surface moulded into each side of the		

	bags. A separate non-skid ply that has been vulcanized separately is not acceptable.		
	6.9 Inflation should be through single regulator 200/300 bars with Quick Connection.		
	6.10 The Pneumatic Lifting Bags should be portable and light-weight, and should be in set form, consisting of bags, hose assemblies, Pressure gauges, pressure reducers, safety valve, Air bottle connector, and controller.		
	6.11 The air bags should be chemical and some ozone resistant with carrying straps attached to 40 ton bags.		
	6.12 The Pneumatic Lifting Bags and its accessories should comply all the requirements stipulated under EN 13731-2003/equivalent.		
	1. PRESSURE REGULATOR		
	1.1 The pressure Regulator should be capable of reducing the pressure from 300 bar to 8 bar.		
	1.2 The pressure regulator should be provided with threaded quick connect couplings suitable to fit to normal BA air cylinder by hand without the use of any spanner.		
	1.3 The pressure regulator should be provided with two pressure gauges of suitable capacity to show the air pressure in the cylinder and set pressure.		
	1.4 The pressure regulator should be provided with pressure setting knob and safety valve with 2 mtrs. hose with couplings to connect to Dual Dead man controller.		
	2. One set of airbags will comprise of the following:		
Sl. No.	Description	Quantity	
8.1	Lifting Bag 40 tons capacity	1 no.	
8.2	Pressure reducer 300 bar to 8 bar	1 no.	
8.3	Dual Controller with pressure gauges	1 no.	
8.4	Air Hose 5 mtrs. with couplings	2 nos.	
8.5	Air Hose 10 mtrs. with couplings	2 nos.	
8.6	Single control Unit	2 nos.	
8.7	Shut off hose with safety valve	4 nos.	
8.8	Connection piece to connect two air cylinder	2 nos.	
	1. MARKING		
	1.1 Bags should have proper colour to be visible in dark smoky condition. It should have reflective markings on the corners for easy identification when operating in the dark areas.		
	1.2 The lifting bags should be provided with a warning and information labels. The information and the warning labels must be in English language and in pictograms for clear understanding. Also it should be marked with date of manufacturer and serial number in such a way that they cannot be erased without damaging the surface.		
	2. TESTING		
	2.1 Artificial aging		
	2.2 Impulse loading with drop weight.		
	2.3 Dynamic fatigue loading with 16 tone weight.		

<p>2.4 Leakage test with sharp drop weight (50 No.) at 600 and 900 from a height of 7 mtrs. Pressure Tests.</p>		
<p>3. MAINTANCE 3.1 The system should be maintenance free. 3.2 There should be provision of draining out moisture after every use. 3.3 Cleaning /Washing should be possible with ordinary detergent.</p>		
<p>4. OPERATION AND MAINTENANCE MANUAL The manufacturer should supply operation and maintenance manual with each set in English language.</p>		
<p>5. PERFORMANCE CERTIFICATE The supplier/fabricator submitting the offer will have to provide the authorized certificate with performance certificate obtained from the manufacturer without which the offer shall not be considered.</p>		
<p>6. GUARANTEE/WARRANTY The supplier shall have to furnish a maintenance guarantee under taking for service, repairs, replacement, maintenance etc., in and against any defect in the materials used for 24 calendars months commencing from the date of acceptance and the manufacturer will replace or repair any part or parts free of cost</p>		

Schedule "A"

UNDERTAKING TO BE SUBMITTED BY PRINCIPAL MANUFACTURER / DISTRIBUTOR

It is to certify that

M/s _____

(Name & Address of Tenderer) is our Authorised Distributor / Dealer. They are Authorised to submit

tender for _____ (Name of Item) to the State Trading Corporation of India

Ltd., New Delhi against their Tender Notice No _____

Dated _____.

The Equipment / Item is Guaranteed for minimum..... year Comprehensive free onsite Guarantee with Spare Parts from the date of completion of satisfactory testing, commissioning installation and Authorised Distributor / Dealer shall during the Guarantee period replace the parts if any, or rectify any manufacturing defect found during the above period so as to make the machinery operative and in perfect condition.

They are also Authorised to provide Annual Maintenance Contract and repairs contract for the period as desired by the purchase officer after the expiry of year comprehensive Guarantee They will be responsible to ensure adequate regular supplies of spare parts, consumables, non- consumables needed for the same whether AMC or otherwise.

In case of change of Authorised Distributor / Dealer, we will inform the purchase officer accordingly within 15 days of change of authorized distributor/ Dealer. The new Dealer / Distributor will be responsible for after sales & service and annual maintenance and repairs contract as above. In case of failure of Authorised Dealer / Distributor we will be responsible for providing after sales service of the equipment as per terms and conditions of tender and contract.

If there is any defect M/s _____ shall replace or upgrade the defective part/faulty which shall also be subject to same guarantee as the original equipment. M/s _____ shall bear all costs, travel, labour, material cost which are required on rectification of defects onsite during the guarantee period.

SIGNATURE OF THE PRINCIPAL MANUFACTURER/ DISRIBUTOR

WITH RUBBER STAMP

Note: This Undertaking should be Typed & Signed by Principal Manufacturer/ Distributor on his Original Letter Pad

PERFORMANCE BANK GUARANTEE FORMAT

(To be executed by any Nationalised Bank in India having their Branch in the State of End-user
Department on stamp paper of Rs.100/-)

Name & Address of the Buyers(End-user Department)

1. Against Tender No. _____ dated _____ and Contract No. _____ Dated - _____ (hereinafter called the Contract entered into between the STC of India Ltd., New Delhi which expression shall, unless repugnant to the context or meaning, thereof include its successors, representatives & assigns for and on behalf of _____ (hereinafter called the Buyers/End user Department) and M/s. _____ (Name and Complete Address) (hereinafter called the Sellers) which expression shall, unless repugnant to the context or meaning, thereof include its successors, representatives & assigns this is to certify that at the request of the Sellers, we _____ Bank unconditionally and irrevocably guarantee to pay to the Buyers immediately on first demand, the amount of US \$/Rupees _____ (@ 10% of contract value) without any protest or demur or reference to the Sellers if the Sellers fail to perform all or any of their obligations under the said contract. The decision of the Buyer/End user _____ or The STC of India Ltd., New Delhi duly communicated in writing to the bank that the sellers have failed to perform all or any of the obligations under the contract shall not be questioned and be final and conclusive. The said amount of US \$/Rupee _____ will accordingly forthwith be paid without any conditions or requirement of our proof whatsoever failing which interest @ 15% p.a. on monthly rest basis shall be payable by the Bank to Buyer.
2. It is fully understood that this guarantee is effective for a period upto _____ (24 Months + Delivery Period) and that we _____ Bank undertake not to revoke this guarantee during its currency (upto claim period) without the consent in writing of the Buyers.
3. We _____ Bank, further agree that the buyer shall have the fullest liberty, without affecting in any manner or obligations hereunder to vary/extend any of the terms and conditions of the said contract or/extend time of performance by the Sellers from time to time or to postpone for any time or from time to time any of the powers exercisable by the Buyers against the said sellers and/or forebear to enforce any of the terms & conditions relating to the said contract and we, _____ Bank shall not be released from its liabilities under this guarantee by reasons of any such exercise, variations or extension being granted to the said sellers or for any forbearance and/or commission on the part of the buyers, or any indulgence by the Buyers, to the said Sellers or by any other matter or thing whatsoever which under the law relating to the sureties would, but for this provision have the effect of so releasing us from our liability under this performance guarantee. We further agree that the validity period of this

Performance Bank Guarantee will be extended by us upon receipt of any such request in writing from the Buyer and any charges on account thereof shall be to the account of seller

4. We _____ Bank further agree that the guarantee herein contained shall not be affected / discharged by any change in the constitution of the said Sellers/Buyers/Bank.
5. The Guarantee will be governed by Indian Laws and will be subject to the jurisdiction of competent courts in the State of Buyer / End – user India alone.
6. No claim shall be admissible against the Buyer in respect of interest on Performance Guarantee regardless of the time of release.
7. The Bank further agrees that decision of the Buyer as to the failure on the part of _____ to fulfill their obligations as aforesaid /or as to the amount payable by the bank to the Buyer shall be final, conclusive & binding on the Bank.
8. This Guarantee will remain in force up to _____(24 Months + Delivery Period) and any demand in respect thereof should reach Bank not later than 10 (Ten) working days (claim period) from the expiry of above validity date.
9. Notwithstanding anything entered hereto Banks liability under this Performance Bank Guarantee shall not exceed _____(in words. Bank is liable to pay the guaranteed amount if Buyer same upon in written claim/demand on or before the expiry date.

FOR _____ BANK

ACCEPTED

Witness:-

Price Bid
ON THE LETTER HEAD OF THE COMPANY

Tender No. & Date :

Name of the Item Quoted :

S.No. of Item in Tender Document :

Details	Unit Price (Currency)
Ex-Works Price	
FOB Price	
Insurance & Freight Charges up to Indian port	
Total CIF Price	
Total FOR (Lucknow, Uttar Pradesh) Price (Inclusive of Installation/Commissioning/TrainingCharges and 24 Month Comprehensive Warranty including cost of spares)	
Price in Words	

We have carefully gone through the Terms and Conditions of the Tender Documents and hereby agree to abide by the same for the fulfillment of the contract. This is to also confirm that I am fully authorized by company for signing and submitting this price bid.

Place:
Date:

SIGNATURE OF THE TENDERER
NAME & DESIGNATION OF TENDERER
COMPANY SEAL

SCHEDULE- D

INTEGRITY PACT

Between

The State Trading Corporation of India Limited, a company incorporated under the Companies Act 1956 and having its registered office at Jawahar Vyapar Bhawan, Tolstoy Marg, New Delhi - 110001 hereinafter referred to as “STC”,

And

....., a company registered under and having its registered office at hereinafter referred to as “**The Bidder**”.

Preamble

STC is an international trading company dealing in purchase, sale, export and import of various commodities.

STC has invited tenders for purchase of and intends to award contract/s for purchase of the same under laid down organizational procedures, STC values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relations with its bidders.

In order to achieve these goals, STC has appointed Independent External Monitors (IEMs), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1 – Commitments of STC

(1) STC commits itself to take all measures necessary to prevent corruption and to observe the following principles:-

- (a) No employee of STC, personally or through family members, will in connection with the tender for or the execution of the contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which he/she is not legally entitled to.
- (b) STC will, during the tender process treat all bidder(s) with equity and reason. STC will in particular, before and during the tender process, provide to all bidders/contractors the same information and will not provide to any bidder(s) confidential/additional information through which the bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
- (c) STC will exclude from the process all known prejudiced persons.

(2) If STC obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal Code (IPC) or Prevention of Corruption (PC) Act, or if there is a substantive

suspicion in this regard, STC will inform its Chief Vigilance Officer and initiate disciplinary actions as per laid down procedures. 22

2 – Commitments of the Bidder

(1) The Bidder commits to take all measures necessary to prevent corruption and to observe the following principles during participation in the tender process and during the contract execution.

- a. The Bidder will not, directly or through any other person or firm, offer, promise or give to any of STC's employees involved in the tender process or in the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- b. The Bidder will not enter with other bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- c. The Bidder will not commit any offence under the relevant IPC/PC Act. Further the Bidder will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by STC as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- d. The Bidder of foreign origin shall disclose the name and address of its Agents/representatives in India, if any. Similarly the Bidder of Indian nationality shall furnish the name and address of its foreign principals, if any. All the payments made to the Indian agent/representative will be in Indian Rupees only.
- e. The Bidder will, when presenting the bid, disclose any and all payments made or committed or intended to be made to agents, brokers or any other intermediaries in connection with the award of the contract.

(2) The Bidder will not instigate third persons/firms to commit offences outlined above or be an accessory to such offences.

Section 3- Disqualification from tender process and exclusion from future tenders/contracts

If the Bidder/Contractor, before award of the contract or during execution thereof commits a transgression through a violation of Section 2 above or in any other form such as to put its reliability or credibility in question, STC shall be entitled to disqualify the Bidder/Contractor from the tender process or to terminate the contract, if already signed, on that ground.

If the Bidder/Contractor commits a serious violation of Section 2 above or in any other form such as to put its reliability or credibility as Bidder/Contractor into question, STC shall also be entitled to exclude the Bidder/Contractor from participating in the future tender processes for duration as may be considered appropriate by it.

Section 4 - Compensation for Damages and Forfeiture of EMD

- (1) If STC disqualifies the Bidder/Contractor from the tender process prior to the award of the contract according to Section 3, STC shall be entitled to demand and recover the damages

equivalent to Earnest Money Deposit/Bid Security, by forfeiting the same as stipulated in the tender.

- (2) If STC terminates the contract according to Section 3, or if STC is entitled to terminate the contract according to Section 3, STC shall be entitled to demand and recover from the Bidder/Contractor liquidated damages as per contract or the amount equivalent to Performance Bank Guarantee stipulated in the tender.

Section 5 – Previous transgression

- (1) The Bidder/Contractor declares that it did not commit any transgressions in the last 3 years with any Company in any country with regard to any anti-corruption law or practice or with any other Public Sector Enterprise in India that could justify its exclusion from the tender process.
- (2) If the Bidder/Contractor makes incorrect statement on this subject, it may lead to disqualification from the tender process or termination of the contract if already awarded.

Section 6 – Equal treatment of all Bidders/Contractors/Subcontractors

- (1) The Bidder/Contractor undertakes to demand from all Subcontractor(s) a commitment in conformity with this Integrity Pact, and to submit it to STC before signing of the contract, if awarded in its favour.
- (2) STC will enter into agreements with identical conditions as this one with all bidders, contractors and subcontractors.
- (3) STC will disqualify from the tender process any bidder/contractor who does not sign this Pact with STC or violates its provisions.

Section 7 – Criminal charges against Bidder(s)/Contractor(s) /Subcontractor(s)

If STC obtains knowledge of conduct of a bidder, contractor or subcontractor or of an employee or a representative or an associate of the bidder, contractor or subcontractor which constitutes corruption, or if STC has substantive suspicion in this regard, STC will inform the same to its Chief Vigilance Officer.

Section 8 – Independent External Monitor /Monitors

- (1) STC has appointed competent and credible Independent External Monitor(s) (IEMs) for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
- (2) The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, STC.
- (3) Bidders/Contractors accept that the Monitor has the right to access, without restriction, all project documentation of STC including that provided by the Bidder/Contractor. The Bidder/Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to its project documentation. The same will also be applicable to Subcontractor. The Monitor shall treat the information and documents of STC and the Bidder/Contractor/Subcontractor with confidentiality.

- (4) STC will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between STC and the Contractor. The parties offer to the Monitor the option to participate in such meetings
- (5) As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of STC and request the Management to discontinue or take correction action or to take other relevant action. The Monitor may in this regard submit non binding recommendations. Beyond this, the Monitor nhas no right to demand from the parties that they act in specific manner, refrain from action or tolerate action.
- (6) The Monitor will submit a written report to the CMD, STC within 8 to 10 weeks from the date of reference or intimation to him by STC and should the occasion arise, submit proposals for correcting problematic situations.
- (7) If the Monitor has reported to the CMD STC a substantiated suspicion of an offence under relevant IPC/PC Act, and the CMD STC has not, within the reasonable time taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commission.
- (8) The word Monitor would include both singular and plural.

Section 9 – Pact Duration

This pact begins when both parties have legally signed it. It expires for the Bidder/Contractor twelve months after the last payment under the contract, and for all other bidders six months after the contract has been awarded.

If any claim is made/lodged during this time by either party, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/determined by CMD, STC.

Section 10 – Other provisions

- (1) This Integrity Pact is an independent agreement between the parties and is subject to Indian Law. The arbitration clause if any in the tender / contract shall not apply to this agreement. Place of performance and jurisdiction is the Registered Office of STC. i.e. New Delhi.
- (2) Changes and supplements to this Pact as well as termination notices to be issued, if any, shall be made in writing. Side agreements have not been made.
- (3) If the Bidder/Contractor is a partnership firm or a consortium, this agreement shall be signed by all partners or consortium members.
- (4) Should one or several provisions of this agreement turn out to be void, the remainder of this agreement shall remain valid. In such a case, the parties will strive to come to an agreement to their original intentions.

(For & On behalf of STC)

(For & on behalf of The Bidder/Contractor)

(Office Seal)

(Office Seal)

Place :

Date:

Witness 1 : Name & Address

Witness 2 : Name & Address

BID BOND PROFORMA

(To be executed by any first class international Bank through its office in New Delhi (India) on stamp paper of Rs.100/-).

M/s. State Trading Corporation of India Limited,
Jawahar Vyapar Bhavan,
1, Tolstoy Marg,
New Delhi –110001.

Dear Sirs,

1. WHEREAS M/s _____(BIDDER) has offered to supply _____ to STC, and the bidder is required to submit a Bid Bond at the rate of US\$ _____ along with the offer as a guarantee for fulfillment of all the terms and conditions of subsequent sale. We (**Bank with full address**) hereby unconditionally and irrevocably guarantee and undertake to pay the amount demanded by STC not exceeding the sum of US Dollars _____ only, in case the bidder fails to perform any or all the obligations, undertaken by him as per STC's acceptance, without any demur, protest and without any reference or recourse to the Bidder notwithstanding any dispute raised by the Bidder in any suit proceedings relating there to pending before any court or tribunal our liability under these presents being absolute and unequivocal. The payment shall be made to STC across the Counter of the Bank on the same day of receipt of invocation of this Bid Bond. Any such demand in writing made by STC, shall be final, conclusive and binding on us irrespective of any dispute or difference raised by the bidder.
2. Notwithstanding anything mentioned herein before, our liability under this guarantee is restricted to US\$ _____(US\$ _____ only) and it will remain in full force up to (one month from the last date of validity of offer). Unless a claim under the guarantee is filed against us on or before _____ all your rights under the said Guarantee shall be forfeited and we shall be relieved and discharged from all the liabilities there under. We, _____(Bank) further agree that the Guarantee hereunder contained shall not be affected by any change in the terms of purchase originally offered by the bidder and any change in the Constitution of said Bidder/ STC/ Bank.
3. This bond will be governed by Indian Laws and will be subject to the jurisdiction of courts at New Delhi in India alone.

DATE

FOR

PLACE

BANK

N.B. Bid Bond to be furnished in US Dollars only. Bid Bond in Indian Rupees will not be accepted.

Schedule-F

SCHEDULE OF GUARANTEE:

I/We guarantee that the **CRASH FIRE TENDER** will be reliable in operation and I/We undertake to replace, or adjust free of charge to the U.P. Fire Service any part of the plant supplied under the contract which fails to comply with guarantees or requirements entered in schedules of particulars and specification until the completion of the Maintenance period.

I/We guarantee that the Plants is of a type which has been proved in service to be suitable for the duly required by the specification and will have been manufactured and tested in accordance with the specifications.

Guaranteed

- (i) Unladen weight (kg.)
Chassis with equipment)
- (ii) G. V. W. (kg.)

Signature
In the capacity of
Witness
Occupation
Address
Date

Signature of Bidder

Schedule-G

Schedule of Spare Parts

Bidder shall enter below the list of spare parts necessary for the maintenance of **CRASH FIRE TENDER** for a period of 10 years. The spare parts shall conform to the Specification in General. This shall not be carried forward to the schedule of prices.

SR.No.	Part	Description	Quantity	Unit shelf life	Rate	Custom duty (As applicable)	Total amount

Signature of Bidder

Schedule-H

5 Schedule of Tools

Bidder shall enter below a list of the tools which they advise should be kept with the Plant.
The tools offered shall conform to their requirement of of the Specifications General.

Cost of these items shall be included in cost of the plant.

<u>Sr.No.</u>	<u>Item no.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>

Signature of Bidder

COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT (CAMC)

<p>3.1 GENERAL: The following Special Conditions shall be read in conjunction with General Conditions of Global tender and amendments/ corrections thereto. If there are any provisions in these special conditions, which are at variance with the provisions in the above-mentioned documents the provisions in these special conditions, shall take precedence.</p>		
<p>3.2 SUFFICIENCY OF TENDER: The bidder shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the schedule of quantities or in bills of quantities which rates and prices shall, except as otherwise provided, cover all his obligations under the contract and all matters and things necessary for the proper completion and maintenance of the works.</p>		
<p>3.3 SUPERVISION: The supplier shall provide adequate supervision at all stages of the contract and examine all components for accuracy before work is completed. He shall also provide facilities satisfactory to the inspector/purchaser for laying out for his inspection of any component to be used in the work at such stages of execution as may be directed.</p>		
<p>3.4 TAKING OVER: 3.4.1 When all performance tests called for by the technical specification have been successfully carried out after completion of the work, the same shall be accepted and taken over when it has been completed at site, and the Officer in-Charge or officer/officers notified by the end- user shall forthwith issue a taking over certificate.</p>		
<p>3.4.2 In the event of final or any outstanding tests being held over, such taking over certificate shall be issued subject to the results of such final or outstanding tests which shall be carried out in accordance with the relevant clause of the contract.</p>		
<p>3.4.3 When the technical specification call for tests at site, the equipment shall be taken over and taking over certificate issued immediately, after such tests have been satisfactorily carried out.</p>		
<p>3.4.4 The Engineer-in-charge shall not delay the issue of any taking over certificate contemplated by this clause on account of minor defects which do not materially affect the use thereof provided that the contractor shall undertake to make good the same in due course.</p>		
<p>3.5 INABILITY TO PERFORM CONTRACT: Should the supplier's preparation for the commencement of the work, or any portion of it or his subsequent rate of progress, be from any cause whatsoever, so slow that in the opinion of the end-user, the supplier will be unable to complete the work or any portion thereof as agreed upon, or should he not have the work ready for delivery in conformity with the contract or should he neglect to comply with any directions given to him by the end-user, or in any respect fail to perform the contract at the end, in which case the supplier shall be liable for any expenses, loss or damage which the</p>		

end-user may incur or sustain by reason of, or in connection with the supplier's default.		
3.6 Right to Suspend or Terminate Works:		
3.6.1 End-user reserves the right to immediately suspend the Works or to terminate the contract agreement if, in the opinion of end-user, serious harm would otherwise be caused to any person, any property or to end-user's operations due to the acts or omissions committed by you or committed on your behalf by your agents, sub-contractors or persons employed by you in such event end-user shall be entitled, at its sole opinion to engage the services of another supplier for completion of the Works.		
3.6.2 In the event you fail to perform any of your obligations, or commit breach of any terms and conditions under this Agreement, end-user may terminate the Agreement and all your rights hereunder shall be ended. Termination shall be effective on the date that end-user specifies in its written notice. No further Works shall be undertaken by you after specified date of termination.		
3.6.3 End-user may terminate this Agreement at any time by giving you at least one (1) calendar month written notice of such termination.		
3.6.4 In the event of termination by the end-user, you shall be paid such amount as is appropriate and payable for the part of the Works under this contract, up to the date of termination, that have been performed to the satisfaction of end-user.		
3.8 SPARES PARTS AND TOOLS:		
3.9.1 As per the contract terms, the OEM (Original Equipment Manufacturer) shall supply spare parts, tyres, batteries & all the consumables for necessary maintenance of equipments. The spares required for emergent repairs and maintenance, shall be arranged by the supplier. End-user will not make any reimbursement towards the cost of spare parts, tyres, batteries & all the consumables, required for emergent repairs and maintenance of CFTs.		
3.9.2 If any additional spares are required, it will be the responsibility of the supplier to supply the same. The supplier shall also intimate all such spares required for successful maintenance.		
3.9.3 The supplier shall make available all the tools including special tools, required for repair and maintenance of CFTs.		
3.10 IMPORT LICENSE (If applicable as per Government of India's notification at the relevant end). The supplier shall render all assistance for arranging the Import License, if required.		
3.11 STANDARD FOR WORKMANSHIP: To determine the acceptable standard of workmanship the supplier shall execute a portion of the items of work as a sample for approval of the Engineer-in-charge before taking up the actual execution of the particular item of work. These samples on approval of the Officer in-Charge or officer/officers notified by end-user shall be guiding samples for execution of the particular items of work. Work not conforming to approved samples shall be rejected.		
3.12 OPERATIONLIZATION OF COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT (CAMC)		
3.12.1 General		
<ul style="list-style-type: none"> The CAMC will be taken up by the supplier as provided in the schedule of quantities (Annexure-I). The terms of CAMC shall be as given below. The tenderer shall provide experienced staff for maintenance of the Crash fire tenders (CFTs) as per schedule of quantities (Annexure-II). The staff shall 		

have multi skill for maintenance of the CFTs, and other equipments/accessories. The facility available with end-user may be utilized for maintenance of CFTs.		
3.12.2 Scope of Work:		
a. The supplier shall submit the maintenance schedule and maintenance activity to be carried out for proper operation and upkeep of the system to achieve the desired performance (Annexure-III). Maintenance/ Workshop (OEM) Manuals of CFTs shall be referred to.		
b. CAMC shall include daily/routine, periodic and preventive maintenance including specialized repairs, strictly as per maintenance programme indicated in manuals of constructor of CFTs.		
d. All the consumables will be on contractor's account. For execution of CAMC, minimum one technician and one assistant will have to be provided at the respective locations for daily/routine, periodic and preventive maintenance including specialized repairs of CFTs. The supplier shall give " at the site training ", for safe operation and maintenance, at the time of induction of CFTs.		
e. All the performance parameters of CFTs shall be verified after completion of maintenance schedule.		
f. The technicians deployed by the supplier shall be certified/ trained for repair and maintenance of Crash fire tenders (CFTs) by Constructor of CFTs.		
g. Scope of work for CAMC for CFTs shall also cover all the accessories and rescue tools, provided and provisioned with the CFTs (Appendix-A).		
h. All dismantled materials/spare parts shall have to be handed over to Officer in-Charge or officer/officers notified by end-user		
i. The PBG (Performance Bank Guarantee) for 10% of contract amount of Comprehensive Annual Maintenance Contract (CAMC) for 5 years shall be submitted by the contractor prior to award of CAMC separately at the end of two year guarantee.		
3.12.3 MAINTENANCE ACTIVITIES: All the check-ups/ maintenance activity of each equipment shall be as per site requirement and, recommendations of the manufacturer. All the check-ups/ maintenance activity in respect of each equipment shall be documented, and got approved by the contractor before commencing the work. Typical maintenance activities are listed below. However tenderer shall furnish exhaustive list.		
1. All the check-ups/ maintenance activity in respect of each equipment of CFTs as per maintenance manual of the manufacturer.		
2. Attending to any emergency breakdown of CFTs.		
3. Replacement of Seals, Bushes, Indication lamps and bearings as per site requirement or as per recommendation of the manufacturer.		
4. Repairing / overhauling the equipment at site, including replacement of worn-out parts.		
5. Replenishing Hydraulic system oil required as a result of leak in the system arising out of fair wear and tear.		
6. Lubricating the bearings of motor, pumps and fans, whenever is necessary.		
7. Inspection of gear assembly and replacing worn out units as per site requirement or as per recommendation of the manufacturer.		

8. Repairs & replacement of any component or equipment due to normal wear and tear, preventive & break down maintenance and consumables etc.		
9. All consumables such as lubricating oil, indicating lamps, fuse links etc required for replacement.		
3.12.4 Breakdown & Un-serviceability Period The supplier is expected to maintain the CFTs in good working and operational condition all the times. All breakdowns/failures shall be attended promptly to restore the service at the earliest possible time as per Service Level Agreements (SLA) (Annexure-III) .		
3.12.5 Insurance Cover during CAMC Period Insurance cover for the number of staff who would work at site for the maintenance period shall be taken and the value of insurance per person shall as per standing guidelines of Labour Dept., Govt. of India. The insurance cover shall be valid/ renewed till the end of CAMC period. A copy of insurance cover shall be submitted before physical start of work.		
3.12.6 Safety Devices It shall be the responsibility of the firm to issue all safety devices to the persons engaged for maintenance of CFTs during the CAMC period.		
3.12.7 Emergency Work If, by reason of an emergency arising in connection with and during the execution of the contract, any protective or remedial work is necessary as a matter of urgency to prevent damage to the facilities, the supplier shall immediately carry out such work. If the supplier is unable or unwilling to do such work immediately, the end-user may do or cause to be done such work as the end-user may determine in necessary in order to prevent damage to the facilities. In such event the end-user shall, as soon as practicable after the occurrence of any such emergency, notify the supplier in writing of such emergency, the work done and the reasons therefore. If the work done or caused to be done by the end-user in work, which the supplier was liable to do at its own expense under the contract, the reasonable costs incurred by the employer in connection therewith shall be paid by the supplier to the end-user.		
3.12.8 Handing over on Completion of CAMC At the end of contract, the supplier shall handover all the equipments to end-user in good working condition after carrying out all necessary checks to the satisfaction of Fire Officer in-Charge or officer/officers notified by end-user.		
3.12.9 Other Terms and Conditions a. The machine shall be comprehensively insured by end-user. The firm shall ensure, all necessary precautions are observed for the safety of the equipment. If during the maintenance/ repair, any damage is caused due to negligence of the technicians deployed by the supplier and if such damages are not acceptable to the insurer then the damages shall have to be made good by the supplier at his own cost.		
b. The personnel deputed by the firm shall be qualified enough to maintain sophisticated equipment and capable of communicating with end-user in writing and oral.		
c. The servicing personnel deployed will always be in proper uniform of the agency notifying their identity.		
d. End-user will not be responsible for any violation of statutory labour laws		

applicable to the maintenance agency.		
e. The personnel employed shall duly observe safety and precautionary measures and also restrictions as laid down by the Authority from time to time.		
f. In case of expiry, termination / discontinuation of the contract by either party, the maintenance agency shall vacate the premises along with the personnel belongings at the end of the Notice Board. End-user will not be responsible for compensation of any nature in such events.		
3.12.9 Maintenance		
a. All kind of spare parts, tyres, batteries & all the consumables shall be provided by the supplier during the period of contract for schedule maintenances. A list of consumables and non-consumables spares which are considered essential for efficient running and schedule maintenance required for period of contract should be enclosed.		
b. The firm shall carry out all the maintenance as per manufacturer's recommendation and any minor, major or breakdown maintenance as and when required to ensure the required availability of the equipment for operation.		
3.12.10 Record Keeping, Supervision		
a. The firm shall maintain records for maintenance of CFTs. 1) The payment for CAMC shall be based on the log book entry, certificate by the officer in-charge at site, and shall be made by the representative of end-user.		
b. The maintenance at respective locations shall be supervised/ controlled by Fire station Officer in-charge or officer/officers notified by the end-user II. The maintenance record shall be monitored by the end-user. For maintenance of CFTs, the following log books & registers shall be maintained. 1) Maintenance schedule log register 2) Service log book 3) History register II. The inventory of spares/ consumables etc. required for routine/major/minor/breakdown repairs etc. shall be maintained by the supplier. III. The availability and satisfactory completion of maintenance shall be certified by E&M workshop in-charge of respective base stations. IV. The Fire Officer in-Charge or officer/officers notified by the end-user at respective locations shall supervise the work and certify the work done by the supplier liable to do at its own expense under the contract, the reasonable costs incurred by the end-user in connection therewith shall be paid by the supplier to the end-user.		

ACCEPTANCE LETTER
(on Company's Letterhead)

Supply of 02 Nos. Crash fire tenders (CFTs) at various locations in Uttar Pradesh & Comprehensive Annual Maintenance Contract (CAMC)

I/We hereby tender for the execution for the end-user or his representative, of the supply specified in the underwritten memorandum within the time specified in such memorandum at the rates specified therein, and in accordance in all respects with specifications, design, drawings and instructions in writing referred to, hereof and the conditions of contract, design, and with such the items as are provided for, by and in all respects in accordance with such conditions so far as possible.

2. Memorandum :

- a. General description: **Supply of 02 Nos. Crash fire tenders (CFTs) at various locations in Uttar Pradesh & Comprehensive Annual Maintenance Contract (CAMC)**
 - b. Estimated Cost: **INR ₹----- Crores (INR ₹ ----- Mn) (Supply items) + INR ₹ ----- Crores (CAMC)**
 - c. Earnest money: **INR ₹ -----Crores (INR ₹ ----- Million) or US \$ ----- or Euro €**
 - d. **Security Deposit :**
 - ☞ The Security Deposit will be @ 10% (ten percent) of the total price. The security deposit will be collected by Bank Guarantee from a Scheduled/ nationalized bank (as per RBI Schedule) at the rate mentioned above.
 - ☞ The PBG (Performance Bank Guarantee) @ 10% for Comprehensive Annual Maintenance Contract (CAMC) for 5 years (**Estimated Cost: INR ₹----- Crores**) shall be submitted by the bidder prior to award of CAMC separately **at the end of two year guarantee.**
3. Should this tender be accepted, in whole or in part, I/We hereby agree (i) to abide by and fulfill all the terms and provisions of the said conditions annexed hereto and all the terms and provisions contained in notice inviting tenders so far as applicable and/or in default thereof forfeit to and pay to the end-user or his successors in office the sum of money mentioned in the said conditions.
 4. A sum of **INR ₹ -----Crores (INR ₹Million) or US \$or Euro €** is hereby forwarded in the form of a Demand Draft/ Bang Guarantee in favour of the end-user issued by a nationalized bank / scheduled bank (as per RBI Schedule) as earnest money.
 5. I/We agree to execute all the works referred to in the tender documents, to make any alterations in, omissions from, additions to or substitutions for, the original specifications, drawings, designs, and instructions mentioned herein and to carry out such deviations as may be ordered up to a maximum of 50% of the ordered quantity at the rates quoted in this tender document, if the repeat order is placed within currency of contract.
 6. It is clarified that after unconditionally accepting the tender conditions in its entity, it is not permissible to put any remarks/conditions (except unconditional rebate on quoted rates, if any) in the financial bid and the same has been followed in the present case. In case this provision of the tender is found violated, we agree without prejudice to any other right or remedy, STC / end-user be at liberty to forfeit the full said earnest money absolutely.
 7. That, I/We declare that I/We have not paid and will not pay any bribe to any officer of STC/ end-user for awarding this contract at any stage during its execution or at the time of payment of bills, and further if any officer asks for bribe / gratification, I will immediately report it to the Appropriate Authority in. In

case this provision of the tender is found violated, STC/end-user has the right to terminate the agreement and forfeit the performance guarantee.

Dated the _____ day of _____ 201...

Signature of bidder before submission of tender

Name: _____

Address: _____

Contact No. _____ Fax _____ Email _____

Signature of witness to bidder's signature

Name: _____

Address: _____

Contact No. _____ Fax _____ Email _____

The above tender is hereby accepted by me on behalf of

Dated the _____ day of _____ 201....

Signature of the officer by whom accepted.

“COMPANY'S LETTER HEAD”

PRICE BID FOR CAMC (INDICATIVE)

SCHEDULE OF QUANTITIES

Name of Work: Comprehensive Annual Maintenance Contract for 02 Nos. CFTs

Sl. No.	Description of Works	Quantity	Unit Rate in Rupees	Amount in Rupees
01.	Annual Comprehensive Maintenance Contract at 2 locations (For third year)	02Nos. CFT	Rs. per CFT	Rs. ....for 02 Nos. CFTs
02.	Annual Comprehensive Maintenance Contract at 2 locations (For Fourth year)	02 Nos. CFT	Rs. per CFT	Rs. ....for 02 Nos. CFTs
03.	Annual Comprehensive Maintenance Contract at 2 locations as par Para – 2.10 (For Fifth year)	02 Nos. CFT	Rs. per CFT	Rs. ....for 02 Nos. CFTs
04.	Annual Comprehensive Maintenance Contract at 2 locations as par Para – 2.10 (For sixth year)	02 Nos. CFT	Rs. per CFT	Rs. ....for 02 Nos. CFTs
05.	Annual Comprehensive Maintenance Contract at 2 locations as par Para – 2.10 (For Seventh year)	02 Nos. CFT	Rs. per CFT	Rs. ....for 02 Nos. CFTs
06	Service Tax on Comprehensive Annual Maintenance Contract (in Rs.) ₹			
07	Total (for five years)			

Total Amount (in words):

(AUTHORISED SIGNATORY)

MAINTENANCE ACTIVITY (Indicative)

The vehicles covered under the CAMC will be CFTs 02 in nos. Detailed scope of work for CFTs is as follows:-

1. GENERAL:

- a. General Shift Service Support (8 hours + according to the job).
- b. Team of at least one technician and one helper should be available 6 working days a week during the normal working hours (9:30 am to 6.00 pm).
- c. After the working hours, staff should be available on phone call to attend the faults and rectification with a response time of maximum two hours after receiving the call/sms. This also is applicable for emergency jobs on Sundays.
- d. The supplier shall ensure deployment of skilled, semi skilled/ manual workers so as to fulfill the assigned services and will be mutually agreed upon. Additional manpower shall be used by the party in case of major repairs/breakdowns of engine, transmission, differential assembly, drive unit rollers / bearing etc.
- e. This scope covers daily/routine check-ups, scheduled maintenance, preventive maintenance, trouble shooting of defects from time to time as per the need and rectification and parts replacement as per the requirement.
- f. All parts / consumables required for the services will be made Available by the supplier.
- g. All the repairs, provision of spare parts and lubricants, tyre, batteries etc. are part of the scope of this contract.
- h. Daily maintenance, preventive maintenance / periodical maintenance, break down maintenance of all equipment as mentioned above shall be carried out by as per OEM maintenance schedule.
- i. Periodical cleaning of radiators is supplier's responsibility, however, the critical cleaning / repairs may be done using facilities of end user, if available.
- j. Forecasting of spares consumption and recommending spares required to be purchased, failure, investigation and analysis has to be carried out regularly, and discussed with the end user as and when required, and remedial action to be taken to reduce the down time in order to ensure maximum availability of the Vehicles.
- k. Time duration for minor breakdowns shall be within 2 hrs. and major within 2 days with all the spares available for the job completion.
- l. The Serviceability level to be maintained is minimum 90% at any given point of time.
- m. Daily maintenance means day to day maintenance work i.e. checking of engine oil, hydraulic oil, transmission oil, brake oil, coolants, fuel and leakages from any system, minor repair or adjustments if required, replenishment, tightening of nuts/fasteners etc, replacement of hoses, changing of tyres, fault rectifications, checking and rectification of electrical system, including repair of starter, alternator, or generator or any other job necessary to make the vehicle available for operation.
- n. The supplier will arrange the spares from the OEM.
- o. Periodical / Preventive Maintenance, daily and monthly check list shall be carried out as per schedule recommended by the OEM and the schedule will be furnished at the time of awarding the contract. (Maintenance schedule, check list daily / monthly)
- p. Breakdown maintenance will be carried out as and when need arises.
- q. All consumables such as fuel, oil and lubricants, cleaning materials, cotton waste shall be provided by the supplier.
- r. Working space for keeping tools and records shall be provided by end-user.
- s. Spares shall be on account of supplier.
- t. The infrastructure and equipment necessary for jobs related to gas cutting, welding etc. shall be provided by the supplier.
- u. The hand tools, shoes, gloves and clothing etc. required by technicians for working shall be arranged by the supplier and the Technicians should wear proper uniform at working place.
- v. Cannibalization of spares is allowed on case to case basis and upon prior approval end-user.
- w. Within operational area transport may be provided by end-user to attend the services as mentioned for all the above scope.

2. SPECIFIC MAINTENANCE / CHECKS TO BE CARRIED OVER AND ABOVE INCLUDE:

- 1) Visual Safety checks
- 2) Pump pressure and performance test
- 3) Dry vacuum test
- 4) Check printing of pump valve plates and drive belts
- 5) Change of priming pump oil
- 6) Check of pump gear box oil

- 7) Check of pneumatic system
- 8) Check of water and foam tanks
- 9) Check of roof turret
- 10) Check of hose reel
- 11) Greasing of all the required points
- 12) Check of electric system
- 13) The Chassis components will be serviced and inspected as follows:
- 14) Drive engine oil change
- 15) Pump engine oil change
- 16) Transmission oil level check and if necessary oil change
- 17) Transmission oil filter change
- 18) Change of diesel filter
- 19) Change of air filter
- 20) Check of axle oil level and if necessary oil change
- 21) Steering system check
- 22) Brake system check
- 23) Coolant check
- 24) Engine overhaul
- 25) Torque converter overhaul
- 26) Transmission overhaul
- 27) Complete overhaul of axles
- 28) Pump overhaul
- 29) Water & foam tank removing
- 30) Monitor overhaul
- 31) Suspension system overhaul
- 32) All denting, painting and welding jobs.

3. INFRASTRUCTURE MAY BE PROVIDED BY END-USER

- a. Repair room
- b. Work shop facilities as mentioned below;
Bench vice, drilling machine, grinder, battery charger, air compressor – 12 bar, work bench etc.

4. TYRES / TUBES PATCH WORK AND TYRE REPLACEMENT AND ROTATION:

- 1) Supplier shall identify the Tyres required for the patch repair and the same shall be repaired by the authorized repair Center by the supplier. Tyre replacement during any puncture in the operations side shall be carried out by the supplier and also the tyre rotation as per requirement progressively. New tyre installation on the rim shall also be done by the supplier.

5. MAINTENANCE ACTIVITY FOR CHASSIS

ENGINE

- 1) Air compressor filter-clean/replace
- 2) Cylinder head grounding stud-inspect/clean/tighten
- 3) Engine Crankcase Breather-clean
- 4) Engine oil sample-obtain
- 5) Engine oil and filter-Change / Top-up
- 6) Hoses and clamps-inspect/replace
- 7) Radiator-clean-cooling system Coolant sample (Level 2) – Obtain.

- 8) Starting motor – Inspect / repair
- 9) Turbocharger – Inspect / repair
- 10) Water pump – Inspect / repair
- 11) After cooler core – clean / test
- 12) Fan drive bearing – Lubricate / check & repair
- 13) Air compressor – inspect / repair
- 14) Air compressor filter – clean / replace
- 15) Belt condition & tension – inspection
- 16) Belt tensioner – inspection / repair
- 17) Compression brake – inspect / adjust / replace
- 18) Cooling system water regulator – check / change
- 19) Crankshaft vibration Damper – Inspect
- 20) Electronic Unit Injector – Inspect / Adjust
- 21) Engine Valve Lash – Inspect / Adjust
- 22) Engine Valve Rotators – Inspect / Adjust
- 23) Diesel engine antifreeze-coolant (DEAC) – Add/ Change
- 24) Cooling system Coolant Extender (ELC) – Add / Change
- 25) Vehicle lighting inspection / replace / troubleshoot
- 26) Engine drive belt inspection
- 27) Coolant changing
- 28) Change air cooler inspection (Visual Check)
- 29) Alternator, battery checking
- 30) Battery electrolyte level – check / maintain
- 31) Fuel tank water and sediment –check / drain
- 32) Chassis air filter
- 33) Cooling system water temperature regulator – replace

6. TRANSMISSION / GEAR BOX

A. GENERAL

1. Lubrication – Daily check of the transmission oil level
2. Adding oil whenever required
3. Oil / Filter change at fixed interval

B. PERIODIC VISUAL INSPECTION

1. Transmission & Convertor mounting point bolts-inspect / re-torque the damaged bolts.
2. Mounting pads & bracket inspect / replace / repair the parts.
3. Drive line fasteners at the converter & transmission Yokes – inspect / replace / re-torque.
4. All electrical components (Switches, magnetic pick up, sensors & CAN – Bus Module) – replace / calibrate / program the faulty components / sub-assemblies.
5. Electrical wiring components & connection for security, chafing & any other Damages – Security wiring to prevent chafing damages.
6. Control cables & harness – inspect / care.

C. HYDRAULIC LINES FLEXIBLE HOSES & CONNECTION

1. Inspect all hydraulic lines, hoses etc. for damages, sponginess, loose connections, chafing, etc.
2. Hydraulic lines, hoses etc.
 - i. Correct leaks and repair damage part
 - ii. Re-routing and correct routing of hoses & conduits to prevent further damage.
3. Externally mounted components
 - i. Split line between housing halves – periodically inspect
 - ii. Slit lines externally mounted component such a vales and covers – inspect for leakage or damage / repair leaks and / or replace damage parts as required.
4. Hydraulic system pressure check
 - i. Main and loop pressure of transmission – check / adjust

7. OTHER MISC. ACTIVITY

- 1) Frame Fastener Torque checking
- 2) Suspension inspection – carry put repairs wherever necessary
- 3) Knuckle pin Lubrication
- 4) Axle fluid level inspection and Axle Lubrication
- 5) Axle fluid change
- 6) Wheel nut and Rim checking (Torque)
- 7) Driveline Lubrication
- 8) Air dryer inspection
- 9) Air dryer Desiccant cartridge – replacement
- 10) Brake Drums and Brake pads inspection
- 11) Steering inspection
- 12) Power steering fluid level inspection
- 13) Power steering filters changing
- 14) Fuel / water separator sight Bowl cleaning and element replacement.
- 15) Exhaust system inspection (Visual check)
- 16) Draining of water from pneumatic system

8. MAINTENANCE ACTIVITY FOR FIRE FIGHTING SYSTEM

1. Pump Gear Box Fluid Changing
2. Priming Pump Fluid Changing
3. Hose Reel Hub Lubrication
4. Roller Shutter Lubrication
9. Roof Turret Lubrication
10. Bumper Turret Lubrication
11. Centrifugal Pumps
 1. Stuffing box packing-inspect / repair
 2. Suction cover bearing – inspect / repair / replace
 3. Priming line strainer – inspect / repair
 4. Discharge valves – inspect / replace
 5. Tank suction vales – inspect / replace
 6. Propeller shaft intermediate bearing – inspect / repair / replace
 7. Pipe connection – inspect / replace
 8. Dry Vacuum test – test / check / replace
 9. Valve plates – inspect / replace.
 10. Tooth belt – inspect / replace
 11. Oil, piston priming pump – check / refill
 12. Ventilation hole filter plug – check / clean
12. Pump Gear Box
 1. Oil, gearbox – check / refill
 2. Ventilation hole filter plug – check / clean.
13. Foamatic
 1. Spring and linkage control system – inspect / adjust / replace / calibration, program & adjust for 6x6
14. Water and foam compound tank
 1. Tank support – inspect / replace
 2. Coating – inspect
 3. Sacrificial anodes – inspect / replace
 4. Manhole cover lock – inspect / check / adjust / replace
 5. Tank suction and filling line – inspect
 6. Tank level indicator – inspect / check / replace
15. Roller Shutters
 1. Lock system – inspect / adjust / repair / replace
16. Superstructure support
 1. Superstructure support – inspect / repair
 2. Hinges and locks – inspect / adjust / replace

3. Search light – inspect / repair / replace
17. Brackets
 1. Ladder bracket – inspect / repair / replace
 2. Brackets for equipment – inspect / repair / replace
18. Hose Reel
 1. Friction brake – inspect / replace
 2. Driving chain – inspect / replace
 3. Reel hub – inspect / replace
19. Monitor (Roof)
 1. Movement of monitor – inspect / adjust / programme
 2. Monitor lock – inspect / adjust / replace
 3. Rotation and elevation bearing – inspect / replace
 4. Driving gears – inspect / replace
 5. Nozzle movement parts – inspect / repair / replace
 6. Moving part of reflector – inspect / repair / replace
20. Electric Installation
 1. Alarm installation – inspect / replace
 2. Gauges – inspect / replace
 3. Air pressure horn
 4. Locker lights
21. Pneumatic installation
 1. Drain compressed air chamber – inspect
 2. Pneumatic service unit – inspect / adjust / program / replace.
 3. Pneumatic actuator – inspect / replace

d. Emergency control – inspection / program / replace
22. Air conditioning
 1. Gas Charging
 2. Compressor repair / replacement
 3. A.C. hose, ducts replacement
 4. Other misc. jobs on air conditioning

Annexure -IIIA

SERVICE LEVEL AGREEMENTS (SLA):

S. No.	Description	Default Point	Remarks
1	Preparation of Annual / Monthly preventive & schedule maintenance (PM & SM).	2	Monthly
2	Execution of PM&SM as per schedule	5	No. of non-compliances
3	Monthly Serviceability of 90% is to be maintained : However, if it falls below the requirement , then according to following category, would be the basis of penalty: e. 89% – 85% f. 85% – 80% Persistent low serviceability for two months by the CAMC Supplier shall be escalated to OEM for further necessary action.	3 4	Calculated Monthly
4	Completion of R&M in stipulated time Response time (on call basis) attend Major / minor		

	breakdowns is 2 Hrs and a. Rectification of Major Breakdowns <=05days b. Rectification of Minor Breakdowns <=01 day	5 2	Per incident
5	Quality of R&M and performance after the maintenance works. Availability of proper tools & tackles (Workmanship, using standard tools as per OEM standard)	5	Monthly
6	Repetitive breakdown, fault occurring in the same component	1	Per incident
7	Airside Entry Pass / ADP	1	Per month / person
8	Office timing & technician uniform, PPE etc.	1	Max./month
9	MIS & Value – added services	5	Per month

Note: Total Amount Deduction / Month (**INR**) = 2,500 x Total No. of default Point / month

Or

Maximum deduction amount will be **INR ₹ 50,000/-** per month. The period of major breakdowns excludes actual time taken in shipment/ import of spare parts against documentary proof i.e bill of lading, Bill of entry etc.

PARAMETERS OF INSPECTION
(As per Item No.1.20 of specification)

ANNEXURE IV

1. INSPECTION:

1.1 Inspection of drawing, materials, methods, treatment and workmanship shall be ensured by stage inspection at the time of receipt of chassis before mounting of super structure and on completion of mounting of super structure.

1.2 The vehicle will be subjected to inspection and testing prior to dispatch of vehicle at the factory premises of manufacturer by three officials of Fire service department. The inspection and testing will also include all the tools and equipments supplied with vehicle for their performance test. The cost towards inspection will be borne by the supplier which includes traveling expenses, accommodation charges etc. All the tools and facilities required for inspection shall be arranged by the supplier of cost.

2 TEST ACCEPTANCE:

Following test shall be carried out as per relevant specification indicated against each, at the premises of supplier. The supplier shall provide all test facilities free of charge, including materials to be used in TESTs and INSPECTIONs.

TEST		SPECIFICATION CLAUSE NO.
A)	BRAKE TEST:	
i.	Grade holding – Service & Parking.	As per relevant clause of technical specification
ii.	Stop distance –Service & Emergency.	As per relevant clause of technical specification
iii.	Brake air system.	As per relevant clause of technical specification
B)	FOAM/WATER AGENT SYSTEM:	As per relevant clause of technical specification
i.	Water Tank	As per relevant clause of technical specification
ii.	Foam Tank	As per relevant clause of technical specification
iii.	Ground sweep nozzle (under truck nozzle) discharge rate and range and pattern.	As per relevant clause of technical specification As per relevant clause of technical specification
iv.	Hand line discharge rate, range and pattern	As per relevant clause of technical specification
v.	Monitor discharge rate, range and pattern	As per relevant clause of technical specification
vi.	Proportioning and foam quality	As per relevant clause of technical specification
vii.	Pump and roll capacity (crawling test)	As per relevant clause of technical specification
viii.	Pump total discharge.	As per relevant clause of technical specification
ix.	Primer	As per relevant clause of technical specification
x.	Piping and plumbing	As per relevant clause of technical specification
C)	COMPLEMENTARY AGENT SYSTEM:	As per relevant clause of technical specification
i.	Dry chemical powder for discharge rate, range, propellant gas, purge and vent system	As per relevant clause of technical specification As per relevant clause of technical specification
D)	LIGHTS, ELECTRICAL SYSTEMS	As per relevant clause of technical specification
E)	BODY AND CHASSIS	As per relevant clause of technical specification
i.	Engine	As per relevant clause of technical specification
ii.	Engine cooling system	As per relevant clause of technical specification
iii.	Fuel system	As per relevant clause of technical specification
iv.	Exhaust system	As per relevant clause of technical specification
v.	Body	As per relevant clause of technical specification
vi.	Weight and dimension	As per relevant clause of technical specification
vii.	Cabin :	As per relevant clause of technical specification
	As per relevant clause of technical a) specification	As per relevant clause of technical specification
	b) As per relevant clause of technical	As per relevant clause of technical specification

	specification	
F)	ENGINE DRIVE:	As per relevant clause of technical specification
i.	Gradability	As per relevant clause of technical specification
ii.	Speed & acceleration, J-Test, Evasive Maneuver Test etc.	As per relevant clause of technical specification
G)	CHASSIS:	As per relevant clause of technical specification
	a) Angle of approach and departure	As per relevant clause of technical specification
	As per relevant clause of technical specification	
	b) specification	As per relevant clause of technical specification
H)	STABILITY:	As per relevant clause of technical specification
	Till test and steering rod test, side slope	As per relevant clause of technical specification
I)	RIMS, TYRES AND WHEELS:	As per relevant clause of technical specification
J)	STEERING	As per relevant clause of technical specification
	Turning circle radius	As per relevant clause of technical specification
	R As per relevant clause of technical specification	
K)	T specification	As per relevant clause of technical specification
L)	SIREN	As per relevant clause of technical specification
M)	OTHER EQUIPMENT'S	As per relevant clause of technical specification

NOTE: The test procedure as per Technical Specifications and subsequent amendments, if any, shall be followed.

QUESTIONNAIRE
(to be filled by Tenderer)

Chassis:

1. Make..... Model
2. Type Drive:// 4X4 // 6x6 / / 8x8

3. Weights :Vehicle Axle (Bogie)	Front Kg.	Rear Kg.	Total Kg.
Empty
Expandable Payload
Total:
Average Load Per Tire
4. Gross vehicle Weight Rating	.....mt		

5. Dimensions:

Dimension taken with:

Vehicle fully loaded@	.....kgs	
Tire inflation pressure@	.....kgs	
Overall length	.....mm	Overall width mm
		Overall Height .....mm
Under axle clearance:	Front.....m m	Rear mm
Inter axle clearance	Angle.....	Degree
Angle of :Approach	.....Degrees	
:Departure:	.....Degrees	
Chassis wheel base	.....m m	..... mm

6. Engine:

Make:.....		Model.....		Location.....	
No. of cylinders :		.....		
Maximum Brake Horsepower :		Gross		.....	@.....RPM
		Net		.....	@.....RPM

7. Transmission:

Make:.....		Model		Type	
Maximum Rated Output Torque Capacity: kg./cm²					
Number of speeds:			Reverse		
Forward.....					
Speed Gear Ratio			@ Engine Governed RPM Kmph		
1.					
2.					
3.					
4.					

Contd.....

8	5.			
	6.			
	Rev.			
	Suspension:	Front	Middle	Rear
	Type suspension			
	Leaf Spring			
	Coil Spring			
	Torsion Bar			
	Air Cushion			
	Diagonally Opposite Wheel Motion:			
	Axle Motion Before Bottoming from Level loaded position			
	Shock Absorbers:			
	Upsprung weight at Full Load			
9.	Wheels, Tyres and Rim:	Front	Middle	Rear
	Configuration:			
	Singles:			
	Duels:			
	Multiple piece:			
Rim Size: (mm)				
Load/Ply rating:				
Maximum Load				
Inflation pressure (kg/cm²)				
Tyre types: Bias Ply				
Radial				

Tube type			
Tube less			
Tyre Tread Design.....			

10. Electrical System:

Voltage:	Lighting.....	Starting.....
Capacity Rating at Engine Governed Speed		.....
Capacity Rating at 50% Engine Governed speed		.....
Batteries:	Make..... Model.....	Number.....

Capacity each.....amp hr @ 20 hr rate.

Each.....Cold Cranking Amp (CCA) @ degree F

11.	Fuel system:	
	Fuel Tank Capacity .....liters	Location.....
12.	Exhaust System: Muffler	
	Location of Exhaust Discharge	
13.	Air System:	
	Compressor Capacity.....	
	Air Reservoir Capacity.....	
	Compressor Capacity.....	
	Quick build up time	
	Air Dryer:.....Make.....Model.....	
14.	Service Brakes:	
	Stopping Distance From 32 kmph	
15.	Emergency brake:	
	Type:	
	Entirely Independent of Service Brakes	
	Connected to Service Brakes	

	Clutch Actuation	
	Maximum engine speed at which PTO may be engaged.....RPM	
20.	Type & quantities of extinguishing agents	
	Extinguishing agents	
	Dry chemical..... kgs.	Type of Dry chemical.....
	Water.....ltrs.	Foam Concentrate..... ltrs.
21.	Water tank :	
	Location..... Usable capacity .....Ltrs. No. of tank.....	
	Construction materials:	
	Interior Coating: / / Yes / / No coating material	
	Baffles – Number transverse	
	Number Longitudinal	
	Anti-swirl: / / Yes / / No	
	Top fill opening: size..... mm	Number.....Type.....
	Side fill connection: size.....mm	Number.....
	22.	Foam pumping and Proportioning system:
Type Foam Proportioning system		
Foam-liquid concentrate percentage variable from .....to.....		
Foam liquid concentrate pump – Material		
Capacity LPM at Kg/cm^2		
Type pump Drive.....		
Foam liquid concentration piping – Material		
Roof turret Foam nozzle(s):		

23.	Number..... Make.....Model.....	
	Location..... Type Nozzle...../ / Single discharge/ / Dual discharge	
	Turret flow rate(s).....LPM	Operating pressure.....kg/cm ²
	Discharge: / / Foam – Straight stream Foam / / Foam – variable pattern	
	/ / Water-Straight Stream / / Water spray	
	Range – fully Dispersed or spray, Foam :	
	Full width.....m m	Far point .....mm
	Near point.....mm	
	Turret control: / / only / / Power Assist / / Full power	
	Foam quality: Expansion Rate.....to 1.	
25% drainage time.....min.		
24.	Hand line(s) Water/Foam:	
	Number.....	Location.....
	Length hose per reel.....mm	Size.....
	Reel Mounting: / / Fixed / / Swing-out	

