Corrigendum-IX

Subject:-Corrigendum in Tender no.TN-17/2019-20for Supply of Water Cum Foam Type Fire Tenders for KSTPS & RGTPP.

The corrigendum is being issued in continuation to NIT No.- TN-17/2019-20 published vide UBN No. RVU1920GLOB01368 on 06.11.2019.

1. The Technical specifications of Water cum foam type fire tenders for KSTPS & RGTPP are hereby amended as per enclosure with this letter.

2. The ITB Clause No. 1.9 DELIVERY SCHEDULE is to be read as under:
   All Fire Tenders along with mandatory accessories are to be supplied within 04 months from the date of issue of LOI.

Encl:- Amended technical specifications

(D.P. Verma)
Chief Engineer (TD)
RVUN, Jaipur

Copy submitted/forwarded to the following for kind information please:-
1. Chief Engineer(TD/KSTPS/RGTPP),RVUN, Jaipur/Kota/Ramgarh.
2. CAO(TD),RVUN, Jaipur.

Encl:- Amended technical specifications
Technical Specifications for Supply of Water Cum Foam Type Fire Tenders for KSTPS & RGTPP

1. PROJECT INFORMATION:-

Water cum Foam type Fire Tenders are required for following Thermal power stations of Rajasthan Rajya Vidyut Utpadan Nigam Limited (RRVUNL):-

1. Kota Super Thermal power Station Kota, Rajasthan

2. QUALIFYING REQUIREMENT FOR BIDDER:-

1. The bidder should be a manufacturer of Fire Tenders.
2. The bidder should have supplied minimum 05(five) fire tenders in last 3(three) years, ending last day of month previous to one in which bids are invited and supplied fire tenders should be performing satisfactorily.
3. The bidder should have executed either of the following during last seven (07) years ending last day of month previous to the one in which bids are invited:
   - Three similar orders executed each costing not less than Rs. 108 lakhs.
   - Or
   - Two similar orders executed each costing not less than Rs. 135 lakhs
   - Or
   - One similar order executed costing not less than Rs. 216 lakhs.
4. Average annual financial turnover of the bidder during preceding three (03) financial years as on the date of bid opening shall not be less than Rs. 270 Lakhs.
5. Net worth of the bidder should be positive (+ve) for last three financial year.

NOTE:

a. Other income shall not be considered for arriving at annual turnover.

b. In cases where audited results for the last preceding financial year are not available, certification of financial statements from a practicing Chartered Accountant shall also be considered acceptable.

c. The word “executed” means that the bidder should have achieved the progress specified in the QR even if the total order is not completed / closed. The same shall be supported by documentary evidence issued by the owner.

d. Annual reports/copy of audited P&L accounts/certified copies of P&L account, balance sheets is required to be furnished along with bid.

e. Documentary evidence for being manufacturer like registration certification issued by SSI/NSIC/SC/Directorate of industries/ISO certificate/other relevant authorities is to be furnished in support of manufacturer of fire tenders.

f. Copies of Purchase Orders, detailed specifications and corresponding GST Invoices/delivery challans, inspection reports, despatch documents or other relevant documents/end user certificate etc. for proof of execution of Purchase Orders is to be furnished.
g. Satisfactory performance certificate issued from end user for satisfactory performance of fire tenders supplied in last three (03) years is to be furnished.

h. RVUN reserves the right to reject any or all bids or cancel/withdraw the NIT for the subject package without assigning any reason whatsoever and in such case no bidder/intending bidder shall have any claim arising out of such action.

3. **SCOPE OF SUPPLY OF WATER CUM FOAM TYPE FIRE TENDERS**

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Particulars</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>1.</td>
<td>Fabrication and Supply of Water Cum Foam Type Fire Tender for KSTPS with 16 T GVW chassis and BS VI (Euro 6) Engine along with mandatory accessories as per specifications.</td>
<td>02 Nos.</td>
</tr>
<tr>
<td>2.</td>
<td>Fabrication and Supply of Water Cum Foam Type Fire Tender for RGTPP with 16 T GVW chassis and BS VI (Euro 6) Engine along with mandatory accessories as per specifications.</td>
<td>01 Nos.</td>
</tr>
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4. **Detailed Technical Specification for Fabrication & Supply of Water cum Foam Type Fire Tender for KSTPS, Kota & RGTPP, Ramgarh**

A) **SCOPE OF SUPPLY**

i) 16 T GVW chassis with BS VI (EURO 6) engine of any reputed make having facility of Servicing, Repairing & Spares parts availability at Kota & Jaisalmer Rajasthan.

ii) Driver cum Crew cabin as per specification.

iii) Fabrication and mounts of 5000 Ltrs capacity water tank and 1000 Liters foam tank capacity as per specification.

iv) Supply and mounting of Multi Pressure fire fighting pump as per specifications.

v) Supply and mounting of full Torque Power Take off (P.T.O.) as per specifications.

vi) Supply and mounting of water monitor.

vii) CE Approved Trussed type Ladder 10.5 mtr Double Extension shall be supplied with suitable single person operation beam gantry on roof of vehicle.

viii) Length of fire tender should not be less than 7.8 meter and breath of fire tender should not be less than 2.3 meter.

B) **USE**

The Water Cum Foam fire tender shall be used to carry the water and foam for fire fighting purposes. The pump will be driven by P.T.O.

C) **DETAILED SPECIFICATIONS**

1) **CHASSIS:**

The chassis shall have following specifications suitable for mounting Water Tank having 5000 ltrs capacity, 1000 ltrs foam tanks with pump.

- Make of the chassis: Any reputed make having facility of Servicing, Repairing & Spares parts availability at Kota & Jaisalmer, Rajasthan.
- Minimum Power: 180 bhp @ 2400 rpm
- Wheelbase: Minimum 4200 mm.
- G.V.W.: 16 ton (Approx)
- Emission Compliance: BS VI

2) **DRIVER CABIN:**

Entire Super Structure of the Fire Tender should be fabricated with 32x32x2 mm Mild Steel square-pipe. Enclosed accommodation for driver, officer shall be provided in driver cab.
**Additional Crew Cabin:** Additional crew cabin for Six (6) persons shall be built behind the Driver's cabin, with 2 doors and glass with winding mechanism and crew seat with Rexene seat & back. The Crew Cabin shall have steps for easy and quick boarding and un-boarding of firemen.

**Minimum 4 lockers** for storage of all equipments shall be provided with external access. The bottom of all the lockers shall be off checkered aluminum plate fitted on the base frame to avoid bending of the plates. Side of the lockers shall be of Aluminum plates.

1. Lockers (equipment compartments) shall be closed by shutter of any reputed make and accessible from ground level. Equipment body work roof shall be covered with aluminum checkered plate.
2. All lockers shall be fitted with internal lighting; A master Switch for isolating the locker lighting circuit shall also be fitted in the driving compartment.
3. Non-slip step Cat Ladder shall be provided to give access which is Collapsible in design to the roof of the appliance and for easy and speedy removal and mounting of equipment including ladder.
4. Ladder Beam Gantry shall be provided on top of the vehicle with proper locking arrangement for the ladder. The Beam Gantry should be able to operated by one fireman only.
5. Mesh should be provided to protect the front & side glasses, inside crew member with arrangement replace it in peace time.

**LOCKERS:** Suitable lockers will be provided with shutters of any reputed make for storage of equipments & accessories listed elsewhere in these specifications. Size and Number of locker shall be such that they accommodate all the equipment / accessories in an easily accessible manner.

Back locker should have a collapsible footboard working on heavy duty hinges the Opening and closing of footboard should be based on Shutter position to avoid Additional locking mechanism. The footboard should take weight of approx 250 Kgs to enable firemen to accesses equipment placed at higher locations in the locker.

**Storage of Equipment:** For all water fittings like branch pipes etc. quick release type couplings or snap clamps of spring steel (as per the manufacturers standards) will be provided which shall enable the operator to locate the desired equipment instantly & save valuable items. Suitable straps, brackets, etc will be provided for all other items.

3) **WATER TANK:**

i) A Rectangular SS 304 water tank of 5000 ltrs. Capacity shall be fabricated and mounted on the chassis design behind and drawing the of driver’ tank shall be submitted with tender for security. The drawing shall clearly show the details of the structural design of tank and its mounting.

ii) The tanks shall be rectangular shape with suitable sides shall be fabricated from 5 mm SS sheets with leak proof welded construction and suitably reinforced internally to prevent buckling. The length of major axis and minor axis shall be clearly stated in the offer. The tank walls sides shall have pressed reinforcement for strength with angular bends on both sides.

iii) The welding of the tank shell should be in such a manner that first bead is from inside the shell and subsequent bead from outside the shell. The welded surface shall be cleaned of all slag’s, scale etc. There shall be minimum joints in the tank shell and hence plates used for fabrication of tank shall be of maximum size.

iv) a) The tank shall be mounted on the chassis by minimum four supports symmetrically placed. These supports shall be fabricated from M.S. plate of minimum 6 mm thick with a reinforcement plates welded to tank shell from outside up to half the height of the tank with continuous welding.

b) The tank shall be mounted slightly sloping towards the rear so as to decant the tank completely.

c) There shall be one circular manhole of 450 mm dia. mounted on top of the tank.

d) The tank shall be provided axial baffle plates to prevent the surge of water when the vehicle is in motion and accelerating, braking in speed and covering. The Arrangement of battle plates shall be clearly shown in the drawing.

e) The baffle shall be arranged in a manner to facilitate the movement of a person throughout the tank for cleaning and welding purposes.
v) The tank shall be fitted with minimum 75 mm dia. overflow pipe taken down below the chassis but without reducing the ground clearance.
vi) The tank shall be fitted with two or four 63 mm instantaneous hydrant connection with non return valve, closed to pump panel for filling the tank throughout minimum 50 pipes.

vii) A draw pipe of 100 mm. of MS Material shall be taken from the tank to the pump suction inlet, incorporating 100 mm butterfly valve
viii) The inside and outside surface of the tank shall be prepared with two coats of Epoxy primer shall be applied from inside and outside.
ix) The inside surface of water tank shall be provided with two coats of anti corrosive paint i.e. Epoxy paint.

4) FOAM TANK:
i) A Foam Tank of 1000 Ltrs. capacity shall be provided. The Foam Tank shall be fabricated from 4 mm thick SS 304 sheets including sides, top.

ii) The tank shall have bolted manhole cover of 450mm dia marked FOAM with filling orifice of 150 mm with blank cap. The strainer shall be of such material which shall not be affected by constant contact with foam compound & its total screening area will be adequate to permit quick filling of foam compound into the tank.

iii) The tank shall be suitably baffled to prevent surge while the vehicle is in motion or standing on uneven ground or brakes are applied to the moving appliance. The tank will have a dished top with funneling arrangement for easy filling of foam from drums. A suitable sharp edged tin opener shall also be incorporated in the tank top.

iv) The design of the tank shall incorporate with a drain valve. Means shall be provided for automatic venting of the foam tank when the foam is being produced or the tank is being filled.

v) The draw-off tube shall be connected to the foam compound proportioner / Inductor & pump, as necessary & a flow control valve will be incorporated in it so as to maintain a constant induction rate of not more than 6 percent with varying foam output. The plumbing will have a clear and unobstructed passage of not less than 50 mm throughout.

5) FIRE PUMP(HIGH-LOW PRESSURE)
i) The pump shall be centrifugal type, multi pressure, having output capacity of 2250 LPM at 8.5 kg/cm² and 300 LPM at 35 Kgs/cm² at 3 mtrs suction lift at NTP condition. The low-pressure side will be of single List age and the high-pressure side also with Single stage having regenerative type impeller.

ii) The pump shall be reputed make confirming to following specifications.

iii) The pump shall comply following performance parameters.
   a) Normal Pressure output : 2250 LPM at 8.5Kgs/cm²
   b) High pressure output : 300 LPM at 35 Kgs./cm²
   c) Deep lifting capacity of pump : 30 cm/sec. max. Up to 7 Mtrs in 30 sec. At NTP condition.

iv) The overall pump shall be constructed from gunmetal. The normal (low) pressure impeller, volute, and impeller wearing shall be made from gunmetal confirming to Gr.II of IS 318/1981 and the regenerative type high pressure impeller shall be of Aluminum, Bronze (AB-2). The pump shaft shall be made from stainless steel confirming to IS 6603/1972. The bearing housing will be made of C.I. and all the studs and bolts coming in contact with water shall be of stainless steel.

v) The normal and high-pressure impeller shall be mounted on a single shaft and normal (low) pressure impeller shall be dynamically balanced.

vi) The pump shall be provided with self adjusting mechanical carbon seal. The mechanical seal assembly shall with stand dry running of pump up to 2 minutes without any damages.
vii) The pump shall be provided with an inbuilt filter of easily removable type, which shall filter the water before entering into the high-pressure stage impeller.

viii) Operation of low pressure to high pressure or vice-a-versa shall be possible by actuation of single lever.

ix) The pump shall have facility to operate low pressure and high-pressure mode simultaneously or individually. While high pressure mode is in operation and delivering 300 LPM at 35 kg/cm², the pressure in low pressure side shall not exceed 7 kg/cm².

x) The pump shall be provided in built (integrated in the pump outlet manifold) Pressure Relief Valve (PRV) which shall operate automatically and shall not allow the high pressure to increase beyond 45 Kgs/cm².

xi) The size of high-pressure outlet shall be of 19 mm connected to high-pressure hose reel.

xii) The pump shall be provided with one suction inlet of 100 mm dia. having round threads confirming to IS: 902 of 1974 and two or four numbers of 63 mm delivery outlets having screw down type valves fitted with instantaneous couplings as per IS 903/1993. The delivery valve screw shall not be with gland. The high-pressure outlet shall not be less than 19 mm and shall either be flange on screw type.

xiii) The pump housing shall have provision to connect to internal cooling system. The Pump shall be mounted at the rear of the vehicle connected to P.T.O. by propeller shafts and universal and slip joints with sufficient number of bearing supports

**Pump primer** – The priming system shall be horizontal Reciprocating type integrated in pump bearing housing. The priming shall be fully automatic in operation and shall not require any operation whatever from the pump operator other than throttling the engine to the required RPM. The primer shall get automatically disengaged once the pump is registered the pressure. The primer shall be capable of lifting the water in 30 seconds from the depth of 7 mtrs. (up to pump inlet) at NTP condition. The pump shall attain a dry vacuum of 620 mm of Hg.

The reciprocating pistons shall be made up of stainless steel and reciprocate in self-lubricated linear bearings. The cylinder and priming valve housing shall be made from gunmetal. The eccentric cam shall be fitted on pump main shaft to operate the pistons with neoprene rubber inlet and outlet valves. The primer shall disengage automatically at a pump pressure of 1.5 to 2.0 kg/cm².

The pump with its fitment shall be tested hydrostatically to 1.5 times the working pressure at the pump i.e. for low pressure side it shall be tested to 21 kg/cm² and high pressure side will be tested to 52 Kgs/cm².

6) **CONTROL PANEL:**

i) An adequately illuminated control panel shall be provided near the pump and easily accessible to operator for operating different controls. The control panel of required size shall be made from 1.6 mm aluminum sheet.

ii) The control panel shall include the following items.

   a) Throttle Control for engine.
   b) Pressure gauge
      - Low pressure: 0 to 17 kg/cm²
      - (Glycerin filled)
      - High pressure: 0 to 50 kg/cm²
   c) Compound gauge
      - Vacuum: 0 to 680 mm of hg in Red.
      - Pressure: 0 to 10 Kgs/cm² in Black.

iii) The pressure gauge and compound gauge shall be of Glycerin filled with min 3" dia. panel mounted.

iv) High pressure hose reel circuit control.
v) Cooling water circuit control.
vi) Change over lever from LP to HP mode located at convenient position.
vii) **Pump Control Panel**
System shall indicate and control the below mentioned parameters in real-time:

- Throttle control
- Low, and Compound Pressure
- Water and Foam Level indicator Volume in Liters
- Pump Room Light and Rear Spot Light shall be controlled from the display
- Pump delivery operations valves & Levers
- Pump operation hours counter(optional).

7) **HIGH PRESSURE HOSE REEL WITH GUN**
i) One high-pressure hose reel (conforming to IS 884) shall be provided and fixed in rear lockers provided between rear mudguard and rear bumper. This hose reel shall be connected to H.P. out-let of pump with bale valve of suitable size.

ii) The hose reel shall be made from carbon steel/ Aluminum/ stainless steel material with bearings / bush made from gunmetal. There shall not be any gland sealing for the hose reel and sealing shall be done by means of either oil seals or 'O' rings.

iii) The design and size of hose reel shall be such that, it shall accommodate 60 mtrs. H.P. hose having 20.0 mm bore with quick connect couplings. The hose reel such have 40 Kgs./cm² working pressure and bursting pressure shall not be less than 120 Kgs. /cm².

iv) The H.P. hose reel shall be hydraulically tested to 50 kg/cm² pressure.

v) The HP hose reel shall be provided with High Pressure fog / Jet trigger type reputed make gun connect by quick connect couplings. The gun shall be made from aluminum alloy with rubber grip handle. The inlet connection shall be of ¾ " BSP and shall have leak proof rotating type hose connector. The gun shall be of constant flow type and shall have discharge capacity of 120 LPM @ 35 kg/cm² approx. The gun shall have facility to set of either spray or jet pattern reperably in handle grip. The gun shall have ability to work on pressure from 20 kg/cm² to 35 kg/cm² without affecting the discharge pattern. The weight of the gun assy. shall not be more than 4.0 kgs.

8) **FOAM PROPORTIONING SYSTEM**
An around the pump proportioned shall be fitted between the suction and delivery of the pump which inducts air foam liquid into the water stream. It shall comprise of a collector valve and an inductor. The foam inductor shall have selection option of 3%, 6% and off. Off position isolates proportioned thus allowing the pump to operate in normal manner. Auxiliary foam pick up connection to take foam from Outside shall be provided.

9) **FOAM WATER MONITOR(Any reputed make):**

i) A Foam monitor of 1800 LPM capacity shall be mounted on the top of the vehicle between the driver cabin and water tank.

ii) There shall be suitable platform fabricated on the water tank covered with 16 SWG aluminum chequered plate for the operation of monitor.

iii) The monitor shall be REPUTED make with Fog/Jet nozzle having facility to change the output from nozzle itself. The output can be set to variable and 1800 LPM.

iv) The monitor shall rotated 360° left and right and also moves up and down.

v) The monitor shall be made from light alloy and shall be hard coated from inside to avoid abrasion and corrosion.

vi) The monitor shall have horizontal reach of minimum 50 mtrs

vii) The monitor shall be flange mounted with 65 mm ball valve of reputed make provided in the pump compartment.

vii) The monitor pipeline shall suitable MS pipe of 65 MM dia with suitable flanges.
ix) The monitor shall be hydrostatically tested to the pressure of 16 kg/cm².

x) The monitor pipeline shall be supported suitably to avoid vibrations and cracking.

10) **POWER TAKE OFF (P.T.O.) MAIN PUMP**

i) A power take off assy. shall be brand new and capable of transmitting full torque developed by vehicle engine and transmitted to wheels in first Gear shall be provided.

ii) A power take off assy. shall be of any reputed make, having suitable ratio.

iii) The PTO control lever shall be located inside the driving compartment at suitable and easily accessible position along with Manual control for Engage and Disengage of the PTO.

iv) The PTO assy. shall have a built in cooling system.

v) There shall be locking arrangement for PTO lever to ensure that the pump gear does not get engaged inadvertently.

vi) The driving shafts between the main transmission and the PTO shall be fully universal with provision for lubrication and shall have spline and socket system at other end.

11) **ELECTRICAL SYSTEM**

i) All the important electric circuit shall have separate fuses, suitably indicated and shall be grouped into a common fuse box at an accessible position. The wiring shall be single pole with negative earth.

ii) Suitable sized wire shall be selected for different circuits considering the current consumption for that circuit.

iii) Twin colored LED light bar with inbuilt P. A. system with multi tone siren & hooter 01 Set, cabin roof mounted.

iv) All other light, dashboard light, cabin light, lockers lights shall be provided.

v) All the controlling switches of lights fitted on dashboard shall be of approved make.

vi) Two new Fog Lamps of approved make shall be provided and fitted on front bumper with controlling switch on dashboard.

12) **EMERGENCY LIGHTING:**
The LED V-Bar should be mounted on top of the driver cabin. The V-Bar shall have 7 LED Beacons arranged in V shape to create a maximum radius of light dispersion. It should collectively consist of Red, White & Blue beacons in a V shape angle as per latest CMVR act. Each Beacon shall have 24 LEDs in total. All the beacons shall sync with each other and provide seamless revolving flash patterns. The maximum output wattage should be 30 Watts per beacon. The V-Bar shall have minimum of four flash patterns and the flash rate shall be as per SAE J845 standard. It shall have over voltage, under voltage with auto shut down and reverse polarity protection. Each beacon shall be constructed with Polycarbonate Clear Dome.

The overall V-Bar should be IP65 rated and should have a test certificate from a NABL accredited organization. The V-Bar shall be CE Certified. The LED shall be of surface mount device type suitable for outdoor use. The beacon manufacturer should provide LM80 test results from LED manufacturer.
24 Volt PA System shall be fitted on top of the drivers cabin. The V-Bar design and colour code shall comply to latest Motor Vehicles Act and its suitable Automotive certification should be provided. The Light shall be of any reputed make.

Note:

The details of the LED V-Bar, such as its make and model, supported with catalogues/brochures/drawings/ certificates etc. should be attached with the offer.

The Bidder must upload OEM Authority Letter mentioning the tender reference number confirming the specifications as mentioned above.

13) PERIMETER LIGHTING:
The LED side blinkers shall be mounted on the periphery of the fire vehicle. 2 nos. of LED blinkers shall be mounted on the upper level on each side of the vehicle. 2 nos. of LED blinkers shall be mounted on the upper level on the rear side of the vehicle.

Each LED blinker shall provide 180-degree light spread with a dim mode capability. The flash rate of the LED blinker shall be as per SAE J845 standard with a minimum of 4 flash pattern. The LED blinkers shall be able to flash in multiple flash patterns without any external flasher control device i.e. each LED blinker shall have in-built flashing capabilities. The LED blinker shall be have dual colour i.e. Red and White. The Blinker shall be integrated with the light bar control panel for flash pattern selection. During the Emergency driving operation both colours shall flash simultaneously. The blinker shall have an option of constant steady White light option for Scene lighting around the vehicle. The printed circuit board used for mounting the LEDs and driver electronics shall be Conformal Coated. The LED side blinker shall be CE certified & IP65 certified from a NABL accredited organization. It shall have over voltage, under voltage with auto shut down and reverse polarity protection. Internal construction shall be immune to vibration as per SAE J575 standard. The Light shall be of any reputed make.

Note:

The details of the Perimeter Lighting, such as its make and model, supported with catalogues/brochures/drawings etc. should be attached with the offer.

The Bidder must upload OEM Authority Letter mentioning the tender reference number confirming the specifications as mentioned above.

14) DCP SYSTEM AND CO2 SYSTEM:

Two number of 75 kg capacity DCP cylinders with 5 meters hose and discharge nozzle with valve.  
Two number 22.5 kg capacity CO2 cylinders shall be provided (one on either side) at the rear end or at any other suitable location in the multipurpose fire tender. All the above two cylinders shall be connected to a common header. Electrically non conducting horn with high pressure hose (12.5 mm bore x 30 meter long) for discharge of CO2 shall be connected to the main header. The hose shall be wound on separate hose reel. The CO2 cylinders shall be CCOE Nagpur approved, hydro tested and ISI marked. Two nos spare CO2 cylinders having the same specifications shall also be provided separately.
15) **PAINTING**

i) The complete super structural members including cross members of Drivers cabin shall be painted with two coats of Red Oxide primer, and two coats of chassis Grey paint manufactured by I.C.I. Dulux.

ii) The complete external and internal aluminum paneling of drivers cabin, lockers etc. shall be painted with two coats of Zinc Chromate paint.

iii) The complete exterior of the vehicle shall be painted with two finish coats of "POST OFFICE RED" nitro cellulose (Duco) paint manufactured by I.C.I. paint.

iv) The complete internal surface of water tank shall be painted with two coats of Epoxy primer and two coats of Epoxy paint including baffle plates.

16) **LADDER**(Any reputed make)

Supply of CE Approved Trussed type Ladder 10.5mtr Double Extension shall be supplied with suitable Beam Gantry on roof of vehicle.

The ladder must consist of one main and one extending section, the width of the extending section inside the strings being not less than 12 inches (305 mm). Strings may be of trussed or plain construction. Strings of trussed construction must have the trussing on the underside of the ladder when it is in operational use. Plain timber strings may be reinforced provided such reinforcement is fitted flush with the strings. The underside of the top end of each string of the extending section should preferably of 3 feet6 inches (1.07 m). Small head-wheels may also be fitted. The ladder sections should fit as close as possible to one another to keep to a minimum the extent of "step-in" or (step-out) when passing from one section to another and the distance between a line drawn through the centre of the rounds of one section and a line drawn through the centre of the rounds of the other section should preferably not exceed 2 1/2 inches (63 mm). Rounds must be of rectangular or other approved cross-section providing a non-slip tread and must be spaced at not less than 12 inch (279 mm) or more than 12 inch (305 mm) centers. If the strings are of timber they may be of solid or laminated construction; if they are not made of timber the design must be such that at no point in the strings does the stress exceed 85% of the 0.1% proof stress or 50% of the ultimate tensile strength of the material whichever is the lesser. The design must be such as to ensure the easy sliding of the extending section.

17) **Selectable Gallonage Nozzle (Any reputed make)**

Multipurpose Hand Held Selectable Gallonage Nozzles shall be made of light alloy extruded construction. Selectable Gallonage is twist type control for straight jet, spray, capable to operate efficiently at normal pressure 7kg/cm². The Flow setting of Selectable Gallonage Nozzle is - 115-230-360-475 LPM. Control Lever for ON-OFF position 63 mm size inlet connections, pistol grip handle for better, hard anodized to prevent from corrosion and wear for better control to fire fighter. The Nozzle shall be FM Approved.

- **Standard operating pressure at 100psi (7 bar).**
- **Inlet** 2.5”, Maximum-2Kgs weight
- **Flowsetting** 115-230-360-475 LPM.
- **Quantity** 2 Numbers

18) **Foam Induction Nozzle(Any reputed make):**

- Inbuilt educator draws in form concentrate as water passes to the nozzle.
- Can be operated efficiently by single Firefighter.
- Variable pattern control from straight stream to Fog Pattern.
- Suitable for various Foams Types.
Operates effectively as low as 50 PSI (3.5Bar).
95 GPM at 200 psi the ideal setting for foam application.
Complete with 6-1/2’ pick up hose and 15’ inches SS tube.

- Standard operating pressure at 50 psi (3.5bar).
- Inlet - 1.5” & 2.5’, Maximum weight - 3.7Kg
- Flow rate: 95 GPM (360LPM)
- Quantity - 2Numbers

19) **LOCKER MOUNTED LIGHT MAST (Any reputed make)**
An imported Telescopic Light Mast pneumatically operated through the vehicle air tank should be fixed rigidly on suitable side of the vehicle in such a manner that it should not be damaged due to any jerks. It should be extendable up to a steady height of approx 5-6 meters from ground level and fitted with 4*50 W LED Lights through a Fixed Light Support Head. A handle shall be provided at the bottom of the mast to rotate it to left or right. Permanent connections for taking power supply from a power source set through spiral wire in protective sleeve shall be provided along with the earthed sockets at the light support. Mast shall be made of extruded seamless aluminum construction, anodized in natural color.

20) **HIGH PRESSURE WATERMIST SYSTEM**
The ultrahigh pressure unit should consist of a Plunger Pump, Side P.T.O, High Pressure Hose reels (minimum 1.5 times bursting pressure) and the discharge Guns (with foam discharge Facility). Rated Maximum Discharge output capacity of the Pump shall be between 23 to 42 LPM at 100 bars to 150bars.

**TECHNICAL SPECIFICATIONS**

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<th>No.</th>
<th>Technical Data</th>
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<tr>
<td>1</td>
<td>High Pressure Plunger Pump 3-cyl with maximum 22 lpm</td>
</tr>
<tr>
<td>2</td>
<td>Extinguishing Pressure 200 bar</td>
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<tr>
<td>3</td>
<td>High Pressure Hose 60 m (300 bar)</td>
</tr>
<tr>
<td>4</td>
<td>Extinguishing Pistol Rapid attack with DUPLEX Attachment for spray and low expansion foam</td>
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21) **STABILITY**
The stability of the vehicle shall be such that when fully laden and equipped (but excluding crew), the surface on which the vehicle stands is tilted to either side, the point at which overturning occurs shall not be less than 27 degree angle from horizontal.

22) **WORKMANSHIP AND FINISH**
The vehicle shall be fabricated, painted with standard workmanship & finish.

23) **COMPANY’S NAME & LOGO**: KSTPS’s & RGTPP’s name will be written on both-sides with yellow color & in following style & company’s colored logo will be printed on both front gates of driver cum crew cabin.

(I) FOR KSTPS

**KOTA SUPER THERMAL POWER STATION, RRVUNL, KOTA - (RAJ.)**

**WATER CUM FOAM FIRE TENDER**
5. INSPECTION AND TESTING

5.1 The Inspection and Testing shall be carried out at supplier’s works in the presence of owner (RVUN’s authorized Inspector) before delivery. The supplier has to submit quality assurance plan (QAP) & drawings for Inspection & Testing for each project separately and get it approved by RVUN. Job shall not be started till supplier submits the QAP & drawings and get it approved by RVUN. Stage inspections shall be carried out based on final approved drawings & final approved QAP only.

5.2 There shall be 3 stage inspections including final inspection carried out for fire tenders.

1st Stage : Construction of under structure, water tank, Foam tank Etc.
2nd Stage : Placement of tanks, fittings lockers & pump
3rd/final Stage : Testing of equipments & systems.

5.3 The following acceptance test will be given to the complete satisfaction of the user. The design of vehicle will be such that it will not affect the Chassis Characteristic as specified by the chassis manufacturer such as speed, turning circle, acceleration, braking distance etc.

The stability of the appliance will be such that when under fully equipped & laden condition, if the surface on which the appliance stands is tilted to either side, the point at which over turning occurs is not passed at an angle of 27º from horizontal. This test should be carried out at the vendor factory/supplier’s works in front of all the inspecting officers.

i) The pump with its all fitments will be subjected to Hydrostatic testing on a pressure of 21 kgs./cm²

ii) The pump shall be run dry for a period of minimum **two minutes** at 2000 RPM to check the integrity of mechanical carbon seal. After this test there shall not be any leakage of water through carbon seal.

iii) The pump will be subjected to Endurance test for a period of FOUR hours continuous running. The first Three hours the pump shall deliver rated output of 2250 LPM at 8.5 kg/cm² and next one hour will be 300 LPM at 35 kg/cm².

iv) During the endurance test the water shall not be replenished in the cooling system and the temperature of the cooling water and engine oil should not exceed the manufacturers standards recommendations for the continuous operation and engine should not show any sign of stresses.

v) The other tests shall be as per detailed performance parameters given for chassis, superstructure, fire fighting system which include monitor output & throw, foam induction & expansion, load etc.

vi) Accessories shall also be subjected to relevant tests as per the specification indicated above.
6. TECHNICAL DATA

If any data is not provided then data as per latest relevant IS for fire tenders must be used.

7. UNDERTAKING FOR CHASSIS

Bidder has to furnish an undertaking on NJSP of Govt. of Rajasthan worth Rs.100/- that chassis manufacturer has facility of Servicing, Repairing & Spares parts availability at Kota, Rajasthan & Jaisalmer, Rajasthan mentioning the details of service centers at respective site/cities. The scanned copy of undertaking is to be uploaded along with Technical bid and the original copy is to be submitted in physical form in the Office of the Dy.Chief Engineer(TD-I), RVUN, Room No.-502, 5th Floor, Dreamax Plaza, Sahkar Marg, Jaipur-302001.

8. DETAILS OF MANDATORY ACCESSORIES

Details of mandatory accessories to be supplied along with Fire Tenders is enclosed at Annexure-A (For KSTPS, Kota) & Annexure-B (For RGTPP, Ramgarh).

9. DETAILS OF CONSIGNEE :-

1. Kota Super Thermal Power Station
   The Executive Engineer (O&M- Stores), Kota Super Thermal Power Station, Sakatpura, Kota - 324008(Raj.)

2. Ramgarh Gas Thermal Power Plant:
   The Executive Engineer(Stores), Ramgarh Gas Thermal Power Plant, Ramgarh, Distt. Jaisalmer-345022(Raj.)
Following Mandatory Accessories shall also be provided with Fire Tender for KSTPS, Kota

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PVC suction hose heavy duty complete with copper alloy round threaded couplings to suit the pump inlet - 2.5m long.</td>
<td>4 Nos.</td>
</tr>
<tr>
<td>2</td>
<td>Non percolating flexible Fire Fighting Delivery Hose IS : 636 - 1988 type B mark. Size: 63mm x 15Mtrs Hose Coupling, 63mm x 63mm size, S. S. inst. pattern, pair of male &amp; female parts, duly copper wire bounded with above hose.</td>
<td>10 Nos.</td>
</tr>
<tr>
<td>3</td>
<td>Suction Strainer for Item 2</td>
<td>1 No.</td>
</tr>
<tr>
<td>4</td>
<td>Basket strainer suitable for item 4, IS : 3582</td>
<td>1 No.</td>
</tr>
<tr>
<td>5</td>
<td>Dividing breaching with control arrangement as per IS : 5131</td>
<td>1 No.</td>
</tr>
<tr>
<td>6</td>
<td>Collecting breaching as IS : 905</td>
<td>1 No.</td>
</tr>
<tr>
<td>7</td>
<td>Suction Wrench ( IS : 4643 - 1968 )</td>
<td>2 Sets</td>
</tr>
<tr>
<td>8</td>
<td>Manila Rope Long line, 50 mm circumference, 30 m long</td>
<td>2 No.</td>
</tr>
<tr>
<td>9</td>
<td>Manila Rope Short line, 50 mm circumference, 15 m long</td>
<td>2 No.</td>
</tr>
<tr>
<td>10</td>
<td>Hose Bandages Rubberized</td>
<td>12 Nos.</td>
</tr>
<tr>
<td>11</td>
<td>Hose Clamps</td>
<td>6 Nos.</td>
</tr>
<tr>
<td>12</td>
<td>Two Way collecting Head</td>
<td>1 No.</td>
</tr>
<tr>
<td>13</td>
<td>Water Curtain Nozzle made of M. S. Plate with G. M Instantaneous connection</td>
<td>1 No.</td>
</tr>
<tr>
<td>14</td>
<td>Branch Pipe Short ( Chromium Plated)</td>
<td>2 No.</td>
</tr>
<tr>
<td>15</td>
<td>Nozzle of sizes 12 mm, 16 mm, 20mm, 25 mm and 32 mm ( two each ) ( see IS : 903 - 1975 * t )</td>
<td>10 Nos.</td>
</tr>
<tr>
<td>16</td>
<td>a) Adapter for 100mm suction female thread and 63mm male Instantaneous &lt;br&gt;b) Adaptor double female instantaneous pattern 63mm &lt;br&gt;c) Adaptor double male instantaneous pattern 63mm</td>
<td>1 No.</td>
</tr>
<tr>
<td>17</td>
<td>Hand Lamp ( 4 Cells )</td>
<td>2 Nos.</td>
</tr>
<tr>
<td>18</td>
<td>First aid box for 10 persons</td>
<td>2 Nos.</td>
</tr>
<tr>
<td>19</td>
<td>Rubber gloves 33KV 1 pair</td>
<td>1 No.</td>
</tr>
<tr>
<td>20</td>
<td>Asbestos Gauntlets</td>
<td>2 Pair</td>
</tr>
<tr>
<td>21</td>
<td>Axe, large</td>
<td>1 No.</td>
</tr>
<tr>
<td>22</td>
<td>Spade</td>
<td>1 No.</td>
</tr>
<tr>
<td>23</td>
<td>Pick axe</td>
<td>1 No.</td>
</tr>
<tr>
<td>24</td>
<td>Crowbar</td>
<td>1 No.</td>
</tr>
<tr>
<td>25</td>
<td>sledge hammer, 6.5kg</td>
<td>1 No.</td>
</tr>
<tr>
<td>26</td>
<td>Carpenter’s saw, 60 cm</td>
<td>1 No.</td>
</tr>
<tr>
<td>27</td>
<td>Hydraulic jack - 20 tone</td>
<td>1 No.</td>
</tr>
<tr>
<td>28</td>
<td>Fire hook</td>
<td>1 No.</td>
</tr>
<tr>
<td>29</td>
<td>Tool Kit</td>
<td>1 No.</td>
</tr>
<tr>
<td>30</td>
<td>Fire Beater</td>
<td>1 No.</td>
</tr>
<tr>
<td>31</td>
<td>Self contained breathing apparatus (Compressed air type) &lt;br&gt;6 ltrsx300 bar Cylinder CCE approved with spare cylinder of 45 minutes duration</td>
<td>1 No.</td>
</tr>
<tr>
<td>32</td>
<td>Foam pick up tube</td>
<td>02 Nos.</td>
</tr>
<tr>
<td>33</td>
<td>Rubber gloves as per IS 4770 - 1991 for 5000 volts</td>
<td>04 pairs</td>
</tr>
<tr>
<td>34</td>
<td>Leather glover IS 6994 – 1977</td>
<td>02 pairs</td>
</tr>
<tr>
<td>35</td>
<td>Jack Hydraulic for 20 ton capacity with handle</td>
<td>01 Nos.</td>
</tr>
<tr>
<td>36</td>
<td>Hammer sledge with wooden handle- 10Kg</td>
<td>01 Nos</td>
</tr>
<tr>
<td>37</td>
<td>Hammer sledge with, wooden handle- 5Kg</td>
<td>01 Nos</td>
</tr>
<tr>
<td>38</td>
<td>Bolt. Cutter-600 MM long</td>
<td>01 Nos</td>
</tr>
<tr>
<td>39</td>
<td>AF FF 3% Foam compound</td>
<td>1000 Liter</td>
</tr>
<tr>
<td>40</td>
<td>Deep lift pump for 63MM large size the deep lift shall be attained through venture effect</td>
<td>1 Nos.</td>
</tr>
<tr>
<td>42</td>
<td>House clamps (IS - 5612)</td>
<td>06 Nos.</td>
</tr>
<tr>
<td></td>
<td>Description</td>
<td>Quantity</td>
</tr>
<tr>
<td>---</td>
<td>-----------------------------------------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>43</td>
<td>Hand controlled brunch for 63 MM size hose coupling</td>
<td>01 Nos.</td>
</tr>
<tr>
<td>44</td>
<td>Branch pipe universal of (IS - 2871)</td>
<td>01 Nos.</td>
</tr>
<tr>
<td>45</td>
<td>Branch pipe revolting head (IS - 906)</td>
<td>01 Nos.</td>
</tr>
<tr>
<td>46</td>
<td>Certain electric box lamp with rechargeable accumulator</td>
<td>02 Nos.</td>
</tr>
<tr>
<td>47</td>
<td>Hand lamp (torch - 4 cells)</td>
<td>02 Nos.</td>
</tr>
<tr>
<td>48</td>
<td>Portable clothing for fire men complete with gloves, boots, helmets with suitable face set</td>
<td>02 Set.</td>
</tr>
</tbody>
</table>
### Annexure – B
Following Mandatory Accessories shall also be provided with Fire Tender for RGTPP, Ramgarh

<table>
<thead>
<tr>
<th>S.No.</th>
<th>ITEM</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>100/125 mm rubber / PVC suction hose in 2.5 mtrs length with 100/125 mm suction hose GM couplings as per IS: 3549-1983</td>
<td>4 Nos.</td>
</tr>
<tr>
<td>2.</td>
<td>Suction collecting head – 100/125 mm suction inlet, GM 2 way as per IS: 904: 1983</td>
<td>1 no</td>
</tr>
<tr>
<td>3.</td>
<td>Suction strainer for 100/125 mm suction hose – brass as per IS: 907: 1984</td>
<td>1 no</td>
</tr>
<tr>
<td>4.</td>
<td>Dividing breaching with control 63mm instantaneous pattern – GM as per IS: 5131: 2002</td>
<td>1 no</td>
</tr>
<tr>
<td>5.</td>
<td>Collecting breaching 63mm instantaneous pattern – GM as per IS: 905: 1980</td>
<td>1 no</td>
</tr>
<tr>
<td>6.</td>
<td>Suction wrenches for 100mm suction hose couplings as per IS: 4643: 1984</td>
<td>2 nos.</td>
</tr>
<tr>
<td>8.</td>
<td>Branch with revolving head, GM, 63mm size as per IS: 906: 1988</td>
<td>1 no</td>
</tr>
<tr>
<td>9.</td>
<td>Torch electric with 4 cell water proof, LED, 1400 Lumens, 130 hrs operation</td>
<td>2 nos.</td>
</tr>
<tr>
<td>10.</td>
<td>Foam branch – FB5X type with pick up tube, GM as per IS: 2097: 1983</td>
<td>2 no</td>
</tr>
<tr>
<td>11.</td>
<td>Rope polyamide 32mm dia for lowering line of 30mtr long with sealed ends</td>
<td>1 no</td>
</tr>
<tr>
<td>12.</td>
<td>Rope polyamide 12mm dia for guy line of 30 mtr long with sealed ends</td>
<td>1 no</td>
</tr>
<tr>
<td>13.</td>
<td>Rope polyamide 24mm dia for long line of 30 mtr long with sealed ends</td>
<td>1 no</td>
</tr>
<tr>
<td>14.</td>
<td>Rope polyamide 22mm dia for short line of 20 mtr long with sealed ends</td>
<td>1 no</td>
</tr>
<tr>
<td>16.</td>
<td>Hose slings as per IS</td>
<td>2 nos.</td>
</tr>
<tr>
<td>17.</td>
<td>Rubber gloves as per IS 4770-1991 for 5000Volts</td>
<td>4 pairs</td>
</tr>
<tr>
<td>18.</td>
<td>Leather gloves IS 6994 – 1977 PART 1</td>
<td>2 pairs</td>
</tr>
<tr>
<td>19.</td>
<td>Canvas gloves with anti skid palm</td>
<td>2 pairs</td>
</tr>
<tr>
<td>20.</td>
<td>Axe large as per IS: 963: 1963</td>
<td>2 nos.</td>
</tr>
<tr>
<td>21.</td>
<td>Pick axe as per IS: 703: 1968</td>
<td>1 no</td>
</tr>
<tr>
<td>22.</td>
<td>Firemen Axe as per IS: 926</td>
<td>1 no</td>
</tr>
<tr>
<td>23.</td>
<td>Spade with wooden handle</td>
<td>1 no</td>
</tr>
<tr>
<td>24.</td>
<td>Crow bar of 6 ft long 25mm dia as per IS: 704: 1968</td>
<td>2 nos.</td>
</tr>
<tr>
<td>25.</td>
<td>Spanner adjustable, 30cm long</td>
<td>1 no</td>
</tr>
<tr>
<td>26.</td>
<td>Jack Hydraulic for 20 ton capacity with handle (Only if not provided with chassis)</td>
<td>1 no</td>
</tr>
<tr>
<td>27.</td>
<td>Oil feeder standard capacity</td>
<td>1 no</td>
</tr>
<tr>
<td>28.</td>
<td>Funnel 300mm dia made from GI 18SWG sheet</td>
<td>1 no</td>
</tr>
<tr>
<td>29.</td>
<td>Hammer sledge with wooden handle – 10 kg</td>
<td>1 no</td>
</tr>
<tr>
<td>30.</td>
<td>Hammer sledge with wooden handle – 5 kg</td>
<td>1 no</td>
</tr>
<tr>
<td>31.</td>
<td>Suction adaptor GM 100/125 mm female x 63mm male with lugs</td>
<td>1 no</td>
</tr>
<tr>
<td>32.</td>
<td>Adaptor 63mm male to 38mm female GM</td>
<td>2 nos.</td>
</tr>
<tr>
<td>33.</td>
<td>Adaptor 63mm female to 63mm female GM</td>
<td>1 no</td>
</tr>
<tr>
<td>34.</td>
<td>Belt hook</td>
<td>1 no</td>
</tr>
<tr>
<td>35.</td>
<td>Hand Held Fast Action Select Flow Nozzle:–The selectable flow rate multipurpose nozzle should have a multiple flow setting. This Product be of light in weight and easy to handle. Weight of the nozzle should not be more than 2 KG. The calibrated flow rates are easily selectable through an selection ring. The stream patterns should be changed by rotating the diffuser head ring.Nozzle should be having pistol grip, shut off ball valve opening and made of aluminum alloy.</td>
<td>2 nos.</td>
</tr>
<tr>
<td>36.</td>
<td>Branch pipe with 19 mm nozzle GM 63mm male inlet as per IS: 903: 1993</td>
<td>1 no</td>
</tr>
<tr>
<td>37.</td>
<td>Bolt cutter – 600mm long</td>
<td>1 no</td>
</tr>
<tr>
<td>38.</td>
<td>Hammer ball pein – 500 gms</td>
<td>1 no</td>
</tr>
<tr>
<td>39.</td>
<td>Saw carpenter – 300mm</td>
<td>1 no</td>
</tr>
<tr>
<td>40.</td>
<td>Shovel with handle</td>
<td>1 no</td>
</tr>
<tr>
<td>41.</td>
<td>Nozzle spanner as per IS standard</td>
<td>1 no</td>
</tr>
<tr>
<td>42.</td>
<td>Delivery hose 63 mm dia confirming to IS 636-1988 Type A in 15 mtrs length with Gun Metal male and female couplings. The hose and the couplings should be ISI marked.</td>
<td>10 nos.</td>
</tr>
<tr>
<td>43.</td>
<td>Delivery hose 63 mm dia confirming to IS 636-1988 Type A in 30 mtrs length with</td>
<td>10 nos.</td>
</tr>
<tr>
<td></td>
<td>Description</td>
<td>Quantity</td>
</tr>
<tr>
<td>---</td>
<td>-----------------------------------------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>44.</td>
<td>Breathing apparatus, open circuit positive pressure type with cylinder made of steel, having water capacity of min. 6 ltrs, 300 bar, min 30 to 45 minutes duration, back plate, face mask, lung demand regulator, pressure reducer complete with harness with spare cylinder.</td>
<td>2 Nos.</td>
</tr>
<tr>
<td>44.</td>
<td>AFFF 3 % Foam Compound.</td>
<td>500 liters</td>
</tr>
<tr>
<td>45.</td>
<td>Deep Lift Pump for 63 mm line size. the deep lift shall be attained through Venturi effect. It shall be of reputed make such as Ziegler / Magirus / Godiva / Firefly or equivalent.</td>
<td>1 Nos</td>
</tr>
<tr>
<td>46.</td>
<td>Minimum 12 V Halogen fog &amp; spot lamps</td>
<td>02 Nos</td>
</tr>
<tr>
<td>47.</td>
<td>Nozzles as per IS 903 - 12 MM, 16 MM, 20 MM &amp; 25 MM</td>
<td>02 Nos</td>
</tr>
<tr>
<td>48.</td>
<td>GM Adapter 63 MM, Double male instantaneous IS 901</td>
<td>02 Nos</td>
</tr>
<tr>
<td>49.</td>
<td>GM Adapter 63 MM, Double female instantaneous IS 901</td>
<td>02 Nos</td>
</tr>
<tr>
<td>50.</td>
<td>Trickle type battery charger</td>
<td>01 Nos</td>
</tr>
<tr>
<td>51.</td>
<td>Auxiliaries foam pick up tube</td>
<td>02 Nos</td>
</tr>
<tr>
<td>52.</td>
<td>Medical Kit with box</td>
<td>01 Nos</td>
</tr>
<tr>
<td>53.</td>
<td>Hand lamp 230 V, 60 W bulb with glass cover &amp; AL Wire net with 10 Mtr. wire &amp; two Pin Plug</td>
<td>02 Nos</td>
</tr>
<tr>
<td>54.</td>
<td>Fire proximity slits with bag in water proof bag of neoprene quoted nylon fabric of suitable size</td>
<td>02 Nos</td>
</tr>
<tr>
<td>55.</td>
<td>Electrical chain saw for wood cutting</td>
<td>01 Nos</td>
</tr>
</tbody>
</table>
SCHEDULE I

GENERAL FINANCIAL & COMMERCIAL PARTICULARS OF BIDDER

1. Full name of the Bidder: 

2. Registered Office Address: 

   A. Telephone / Mobile No: 
   B. E-mail: 
   C. Fax No: 

3. Nature of the Bidder (whether sole Proprietary/Partnership/Private Limited / Public Limited/Public Sector): 

4. Do you anticipate any change in the Ownership during proposed period of work? If yes, define scope and effect thereof: 

5. Financial Details: 
   A. Enclosed 3 copies of: 
      Balance Sheets and Profit & Loss Accounts for past 3 years 
   B. Share capital at the time of formation 
      Authorized Paid-up 
   C. Indicate projected turnover for the current year & next year 
   D. Name & address of Bankers 

6. Give adequately detailed write-up on Design and Engineering organization and facilities / capabilities 

Authorized Signatory _____________________
Name ______________________
Designation__________________
Date________________________

Seal of Company
SCHEDULE-II

SCHEDULE OF DEVIATION FROM GENERAL CONDITIONS OF G.C.C, SEC.I

All deviation from the GCC, Section-1 shall be filled in by the BIDDER clause by clause in this schedule.

<table>
<thead>
<tr>
<th>SECTION</th>
<th>CLAUSE NO.</th>
<th>DEVIATION</th>
</tr>
</thead>
</table>

The BIDDER hereby certifies that the above mentioned are the only deviation from the PURCHASER’S General Conditions of Contract for this enquiry. The BIDDER further confirms that in the event any other data and information presented in the BIDDER’s proposal and accompanying documents including drawings, catalogues etc., are at variance with the specific requirements laid out in the PURCHASER's technical specifications, then the later shall govern and will be binding on the BIDDER for the quoted price.

COMPANY SEAL

SIGNATURE ---------------------------------

NAME ------------------------------------

DESIGNATION ---------------------------

COMPANY-----------------------------

DATE -----------------------------
**SCHEDULE- III**

**SCHEDULE OF BIDDER'S EXPERIENCE**

The BIDDER shall furnish hereunder a list of jobs executed by him as per PQR to whom a reference may be made by the PURCHASER in case the PURCHASER considers such a reference necessary.

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Name of client and description of work</th>
<th>Quantity ordered</th>
<th>Scheduled completion period</th>
<th>Actual completion period</th>
<th>Value of order</th>
<th>persons to whom ref. may be made</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8</td>
</tr>
</tbody>
</table>

COMPANY SEAL

SIGNATURE ---------------------------------

NAME -------------------------------------

DESIGNATION ----------------------------

COMPANY---------------------------

DATE -----------------------------
I/We hereby agree & undertake to abide and fulfill the terms and provisions of technical specification & General Conditions of Contract, Sec. I annexed here and also categorically agree, confirm & accept the following:-

1. The Supply of Water cum foam Type Fire tenders against TN-17/2019-20 shall be completed within the stipulated period as mentioned in the specifications i.e. Four (04) months from the date of LOI.

2. The offer is valid for 120 days from the date of opening of the bid.

3. No commercial deviations in the offer from specification & GCC (Sec. I).

4. No technical deviation in the offer from technical specification and subsequent amendments/clarifications till tender opening, if any.

   Note: Bidder shall sign and stamp on each page of technical specification as a proof of acceptance. Additionally, wherever in the specification value/data is called from the same shall be provided / specified by the bidder.

COMPANY SEAL

SIGNATURE -----------------------------

NAME -----------------------------

DESIGNATION -----------------------------

COMPANY-----------------------------

DATE -----------------------------