



GOVERNMENT OF KERALA
KERALA STATE DISASTER MANAGEMENT AUTHORITY

Observatory Hills, Vikas bhavan P. O.

Thiruvananthapuram -695033

☎ 0471 - 2331345, 2331645 Fax-0471-2364424

Web site: www.sdma.kerala.gov.in, Email: seoc.gok@gmail.com



Government of Kerala

KSDMA

No. DM2526/2018/KSDMA

Dated:12.10.2020

QUOTATION NOTICE

Competitive sealed quotations are invited from authorized dealers/suppliers for supplying the following items, which are included as **annexure I**, with the given specifications and conditions mentioned here.

Last date and time of receipt of quotations	:	22/10/2020, 5.p.m.
Date and time of opening quotations	:	23/10/2020 11.a.m
For Technical details Contact. No	:	0471 2331345
Email	:	keralasdma@gmail.com

Terms and Conditions

1. The bidder should clearly specify the brand, make, model and technical specifications in the quotation.
2. The price/rate quoted should be inclusive of all Taxes Freight, Packing & Forwarding charges, handling, delivery and any other incidental charges .
3. The specifications given is the minimum that is/are required. Bidders may choose to supply higher/better/enhanced specifications, but their financial quotes shall be treated as if they have been offered for the given specifications only.
4. The bidder is expected to examine all instructions, terms and conditions and technical specifications in the quotation documents, failure to furnish all information required by the quotation documents or submission of a quotation not substantially responsive may result in the rejection of the quotation.
5. The proposed delivery schedule should be mentioned clearly and the items should be supplied at the office of the Kerala State Disaster management Authority, Thiruvananthapuram.
6. Complaints/damage if any of the supplied item should be rectified/replaced by the supplier at there own cost to the satisfaction of this office.
7. Payment will be made only after the verification of the items and should be in INR.
8. In case of any dispute, the decision of the KSDMA shall be final and binding on the bidders. The undersigned reserves right to reject/accept any or all of the quotations received fully or partly without assigning any reason thereof.

9. The sealed quotations shall be opened in the presence of bidders is available at the office of the KSDMA, Thiruvananthapuram on the date and time mentioned above. If the above date of opening quotations happens to be a holiday or due to any other valid reason, the quotation opening process will be done on the next working day or the day fixed by the undersigned.
10. The sealed quotations should be addressed to " The Member Secretary & Head SEOC, Kerala State Disaster management Authority, Observatory Hills, Vikas Bhavan.P.O,Thiruvananthapuram-695033

Sd/-

Member Secretary &
Head SEOC

Approved for Issue




Administrative Manager

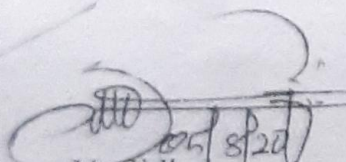
Technical Specification for FIBREGLASS BACKBOARD STRETCHER

The proposed item is a Fibreglass Spine Board Rescue Stretcher with Head bed and spider straps which allows full transportability of the patient from incident site to hospital.

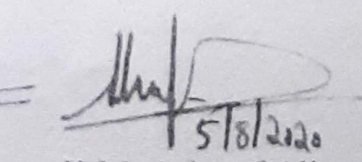
1. Stretcher should have a weight capacity of Not bellow 220Kg.
2. It should be designed with 14 large raised handholds to provide great manual handling options and raised sides for easy hand grip access.
3. The surface should be in Smooth durable finish to make the Carbon Fibre Spine board impervious to body fluids and should provide Quick cleaning and decontamination.
4. Stretcher should be MRI & CT Scan compatible and X-Ray translucent.
5. Weight of the Stretcher should not be more than 5Kg.
6. Brochure of the proposed product should be uploaded along with the bid.
7. Sample of the complete set of proposed Stretcher should be submitted for verification during evaluation.



A.R. Arunkumar
Regional Fire Officer
Fire & Rescue Services,
Kottayam



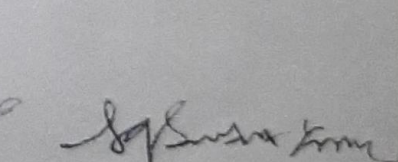
V. Sidhakumar
Regional Fire Officer
Civil Defence,
Thiruvananthapuram



K.M. Asharaf Ali
District Fire Officer
Fire & Rescue Services,
Thrissur



Abhilash K R
District Fire Officer
Fire & Rescue Services,
Alappuzha



Sumesh Kumar A.G
Station Officer (M.T)
Fire & Rescue Services,
Kottayam

Technical Specification for EMERGENCY SPOT LIGHT

The equipment proposed is a Portable Telescopic Tower Light (LED Type) for emergency purpose.

General.

It should be made of High Strength anodized Aluminium of aero grade quality for light weight. The base frame should consist of 3 Legs which are individually adjustable and rigidly integrated to the telescopic mast so as to withstand minimum of 20 m/s wind velocity and gives better stability during extended condition of telescope. It should be self-locking & release, less maintenance and self-lubricating type.

Generator

The engine should be 4 stroke Air Cooled Single Cylinder petrol driven Engine with pull cord re-coil start system. The Generator should produce an output of not less than 850VA, 230V, Single phase of unit power factor. The Gen set should be conforming to BIS standard and approved from CPCB.

Integrated Telescopic mast with base frame.

The base frame and telescopic mast with LED panels should be well designed to operate any weather conditions at a height of not less than 4.25mtr without any effect on operation at the fully extended length at a minimum of 20 m/s wind speed. The base frame should be integrated with wheel assembly made of hard plastic nylon/composite material mounted on stainless & corrosion resistant ball bearing for easy transportation. It should be portable, easy to handle during emergency operation and light weight.

- Dimension: 1. Extended Height – Not less than 4.25m
2. Closed – Not More than 32x32x120cm.
3. Weight – Not more than 40Kg.

LED Light Head

The LED Light Head should consist of minimum of 5 number of glare free LED armatures, each of 65 Watt minimum power to produce 40,000 Lumens or more. It should contain minimum of 5 nos armatures with total power consumption within 400-450w, which can be individually positioned from 180° to 360° in vertically and horizontally depending on the task. Each armature should be fitted with an acrylic lens that shapes the light in an optimal way. A suitable heat sink should be provided to the LED light head for proper cooling of the Armature. Suitable Control gear should be designed and fitted with MCB, change over and on/off switches with energy saving dimmable option for lamps and should have a provision of multi-source input operation like Mains/ Battery/Solar Pack. It should be dust and water resistant to IP65 and above.

Performance Requirement:

- 1). A minimum Lux value of 1 shall be achieved instantly on ground at:
 - a) 130m or higher radius: during beam angle of 180° at min of 4.25 m height.
 - b) 95m or higher radius: during beam angle of 360° at min. of 4.25 m height.

- 2). Start up and repacking time shall be 2 minutes max.

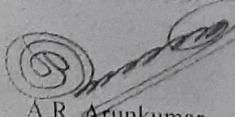
- 3). The portable telescopic light mast should conform to BIS/CE/EN or any International equivalent standard for safety during emergency operation.

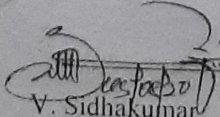
Accessories:

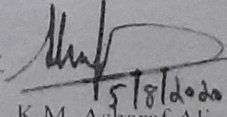
One set of following accessories /spares to be part of supply with the main equipment.

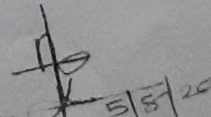
- a) Storage Box- suitable designed to accommodate the tower and other spares and easy to handle with proper locking arrangement.
- b) Rain Protection Cover- for generating set and control gear box made of water proof cloth with air vent arrangement.

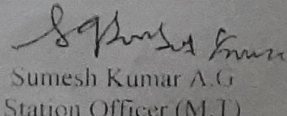
Supplier should furnish complete and satisfactory type test certificate as per above specification. The test report should be from NABL approved Govt. Lab or any other authorized national/ international lab confirming to the standard.


A.R. Arunkumar
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District Fire Officer
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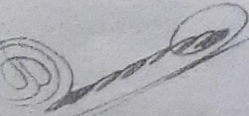

Abhilash K R
District Fire Officer
Fire & Rescue Services,
Alappuzha

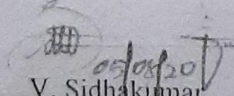

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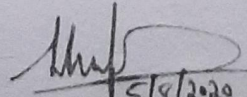
Technical Specification for FIRST AID KIT

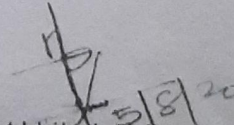
The proposed item is a First Aid Kit containing materials and non-prescription drugs for First Aid medical care during Emergency.

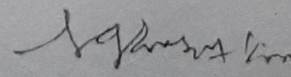
1. The materials should be kept in a good quality container made of suitable material and so designed to protect the contents.
2. The boxes should be clearly marked, the recommended marking being a white cross on a green background (Health and Safety (Safety Signs and Signals) regulations 1996).
3. The following items should be organised in the Kit.
 - a). First aid manual – 1No.
 - b). Sterile adhesive bandages in assorted sizes – 5Nos each.
 - c). Assorted sizes of safety pins – 50Nos.
 - d). Cleansing agent/soap – 2Nos.
 - e). Latex gloves - (5 pairs)
 - f). 2-inch sterile gauze pads – 10Nos.
 - g). 4-inch sterile gauze pads – 10Nos.
 - h). Triangular bandages – 5Nos.
 - i). 2-inch sterile roller bandages – 5Rolls.
 - j). 3-inch sterile roller bandages - 3 Rolls.
 - k). Scissors – 2Nos.
 - l). Tweezers – 2Nos.
 - m). Needle – 5Nos.
 - n). Moistened towelettes – 5Nos.
 - o). Thermometer – 1No.
 - p). Tongue depressor blades – 3Nos.
 - q). Tube of petroleum jelly or other lubricant. -1No.
 - r). Antiseptic Lotion – 1Ltr.
 - s). Non-prescription drugs
4. It should be in compliance with IS13115:1991 standards or latest version. Relevant Documents and Brochure of the product should be furnished along with the offer.
5. A full set of sample should be submitted for verification during evaluation.


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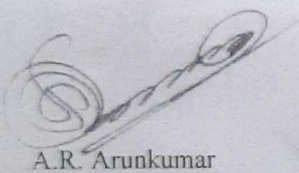

Abhitash K R
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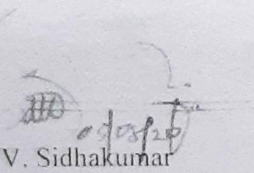
Technical Specification for GRAPNEL/CATHOOK

The proposed item is a Gravity Hook applicable for multiple activities like climbing the trees, buildings, mountain and rocks etc., anchoring, cleaning up the weeds, pull down the tree limbs etc. during outdoor wilderness, adventure, survival and disaster relief.

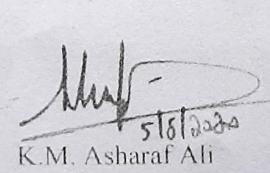
1. The set should be made of high grade Steel (SS 304 or Higher) having minimum 2 collapsible Prongs.
2. The claws should be toothed inside to provide more stability for gripping during climbing activities.
3. Size of the Hook should not be less than 150x190mm, when expanded.
4. Weight – 500gm (Approx.)
5. The size of eye hole should not be less than 13mm.
6. Loading capacity should not be less than 300Kg.
7. Surface should be in polished finish.
8. Brochure and Documents of the proposed product showing the required standards should be uploaded along with the bid.
9. A full set of sample should be submitted for verification during evaluation.



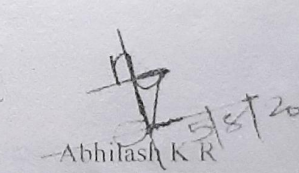
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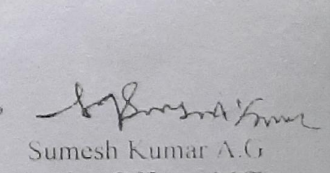
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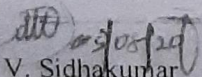
SPECIFICATION FOR OBM (40HP)

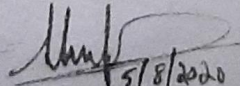
The equipment proposed is to be used by Emergency Services Personnel in rescue operations during incidents in water bodies evacuation in flood affected areas, transportation of medicines and essential commodities to the relief camps, emergency rescue tools and equipments to incident spots, attending stand by duties etc. for propelling the Inflatable Boats.

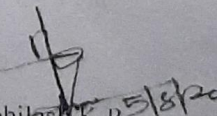
OUT BOARD ENGINE. (40 HP)

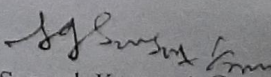
- 1) The Rubber Dinghy shall be provided with outboard engine which can be quickly attached whenever required.
- 2) The Out board Motor shall be of 2 Stroke, Petrol driven and of reputed brand (Honda/Suzuki/Yamaha/Tohatsu/Mercury or equivalent make).
- 3) The capacity of OB engine shall be 40H.P.
- 4) Shall be provided with OEM supplied standard Fuel Tank of 25Ltr capacity with Fuel Hoses and attachments.
- 5) The engine cooling system shall be of water cooled type
- 6) The Exhaust system shall be through propeller shaft.
- 7) The engine and drive line shall be fitted in enclosed housing to protect from Sea/River/Canal water.
- 8). Steering system shall be Manual type with Hand tiller.
- 9) Engine should be provided with Emergency stoppage switch.
- 10) Length of shaft should not be less than 50Cms
- 11) Brochure of the proposed product should be uploaded along with the bid.


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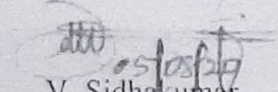
Technical Specification for LIFE JACKET (PFD – Polyurethane Foam)

The proposed item is a compact life saving devices that supports the head above the water to a prevent person from drowning even in the choppiest waves.

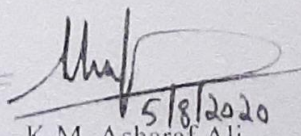
1. Jacket should be made of tough and virtually water impenetrable polyethylene/Nylon water proof fabric. The material should be light weight tough and shred & tear resistant. The Buoyant Material should be Water proof Polyurethane foam. Three Layers stitching should be provided with water-proof fabric.
2. The outer fabric coated with polyurethane in fluorescent Orange colour.
3. Size: Chest size 90Cm to 120Cm X Height 60Cm
4. Buoyancy: The life jacket should be capable of keeping afloat with load and face above water, for a minimum period of 24 hours during continuous use.
5. The design should be confirms to standard sleeveless jacket with front opening.
6. It should be comfortable to wear in all weather conditions and efficient even after prolonged usage.
7. 3 Nos heavy duty nylon wide adjustable straps with push type plastic buckles should be provided. Pasted & Stitched with 50 mm SOLAS reflective strip.
8. Retro reflective Tape: 50 mm SOLAS reflective strip should be pasted and stitched. (Minimum 2 Nos on front side and 1 No on back side of jacket.)
9. A non-metallic whistle should be firmly secured by a nylon cord and housed in a loop on the jacket. During its services the jacket should not have any loss of buoyancy due to repeated use.
10. Weight Of Jacket: Desirable Max: 1000grams
11. It should be in compliance with IS12402/SOLAS standards. Relevant Documents and Brochure of the product should be furnished along with the offer.
12. Brochure of the proposed product should be uploaded along with the bid
13. Sample of the proposed Life Jacket should be submitted for verification during evaluation.



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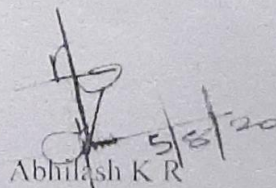


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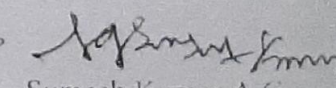
5/8/2020

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5/8/20

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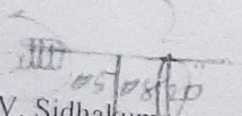
Sumesh Kumar A.G
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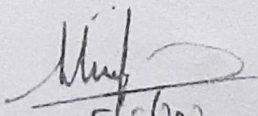
Technical Specification for NYLON ROPE (10/11MM)


The proposed item is a Kernmantle type Rope for Emergency Personnel.

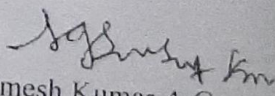
1. The Rope should be suitable for all types of Fire Fighting and Rescue operations.
2. The Rope should have high abrasion resistance and extremely low stretch property.
3. Both the core and sheath of the rope shall be made from Nylon.
4. The rope shall be capable of withstanding multiple falls.
5. The diameter of the rope should not be less than 10mm.
6. The breaking strength should be more than 5000lbf.
7. Length of the Rope shall be 50Meter.
8. Each Rope should be provided with a loop on one side and a good quality Snap Hook/Scaffold Hook with CE marking, made of SS/Brass/Aluminium Alloy/Alloy Steel on the other side for anchoring purpose.
9. The rope shall be certified as per European Norms and relevant certificate should be produced.
10. The weight of each rope bundle shall not be more than 5Kg.
11. Each bundle shall be separately packed in suitable Bags.
12. Brochure of the proposed product should be uploaded along with the bid.
13. A full set of sample should be submitted for verification during evaluation.


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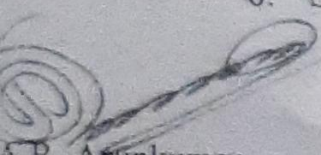

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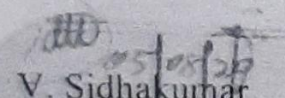

Sumesh Kumar A.G
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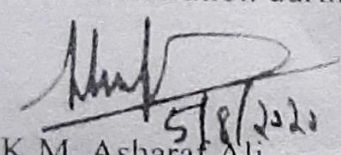
Technical Specification for BAILER

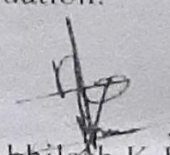
The proposed item is a device used by emergency personnel, for removing water which has entered in the Boat.

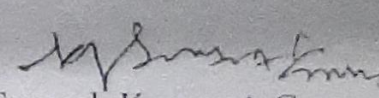
1. The Bailer should be made of high quality, durable, lightweight, corrosion resistant and environmentally friendly material.
2. The design should be merely a container with a handle, which can be filled manually and then emptied.
3. The edges should be smooth and should provide easy and safe handling.
4. Capacity of the bailer should not be less than 1Litter.
5. Brochure of the proposed product should be uploaded along with the bid.
6. Sample should be submitted for verification during evaluation.


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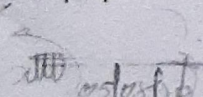

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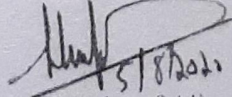
Technical Specification for LIFE BUOY

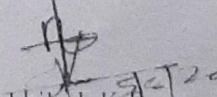
The proposed item is a Lifebuoy ring is a personal flotation device, used to perform emergency rescues. Its buoyancy prevents drowning in case a person accidentally goes overboard into deep water.

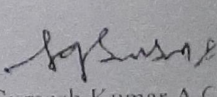
1. Lifebuoy ring should be in Fluorescent Orange colour which is highly visible to the rescuer from a good distance and the casualty against crashing waves.
2. The interior and exterior construction material for lifebuoy ring should be rigid yet light and buoyant at the same time. Also, it should be rot and mildew proof.
3. The outer hard shell should be fabricated from high-density polyethylene and the inner part filling is made out of polyurethane foam.
4. Lifebuoy ring should have an internal diameter of not less than 400mm and not less than 800mm for the outer diameter.
5. The weight ranges should be a minimum of 2.5 kg and a maximum of 6 kg.
6. The lifebuoy rings should have the ability to support for 24 hours, a minimum of 14.5 Kg of iron on fresh water.
7. A grab-line must circle the lifebuoy ring and be secured at four different points of equal distance. Its diameter of the grab line should not be less than 9.5mm. The grab-line should be long enough so as to form loops in between the four securing points for easy grabbing by the casualty.
8. It should be in compliance with SOLAS standards. Relevant Documents and Brochure of the product should be furnished along with the offer.
9. Brochure of the proposed product should be uploaded along with the bid.
10. Sample of the proposed Life Buoy should be submitted for verification during evaluation.


A.R. Arunkumar
Regional Fire Officer
Fire & Rescue
Services,
Kottayam


V. Sidhakumar
Regional Fire Officer
Civil Defence,
Thiruvananthapuram


K.M. Asharaf Ali
District Fire Officer
Fire & Rescue Services,
Thrissur


Abhilash K R
District Fire Officer
Fire & Rescue Services,
Alappuzha


Sumesh Kumar A.C
Station Officer (M.I)
Fire & Rescue Service
Kottayam

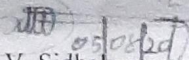
Technical Specification for NAVIGATION LIGHTS

The proposed item is a Portable battery operated LED Navigation light applicable for emergency personnel during search and rescue.

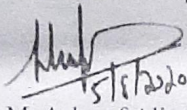
1. The light should be durable, easier to use and built to last in harsh conditions.
2. It should have a shock proof housing, Shatter-proof polycarbonate lens and quick release type mounting attachments.
3. A light should be of flashing type at regular intervals at a frequency of 120 flashes or more per minute.
4. The light should provide 360° visibility not less than 1Km.
5. It should be water resistant to IP67.
6. The torch should be able to give 150+ hour run-time on 3Nos of AAA batteries.
7. It should be in compliance with relevant standards as UL1104.
8. Brochure of the proposed product should be uploaded along with the bid.



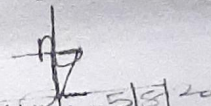
A.R. Arunkumar
Regional Fire Officer
Fire & Rescue
Services,
Kottayam



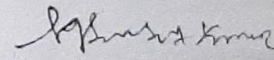
V. Sidhakumar
Regional Fire Officer
Civil Defence,
Thiruvananthapuram



K.M. Asharaf Ali
District Fire Officer
Fire & Rescue Services,
Thrissur



Abhilash K R
District Fire Officer
Fire & Rescue Services,
Alappuzha




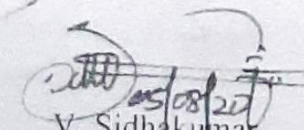
Sumesh Kumar A.G
Station Officer (M.F)
Fire & Rescue Services,
Kottayam

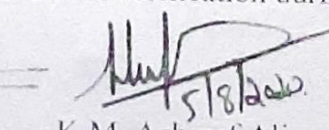
Technical Specification for SAFETY HELMET (WATER RAFTING)

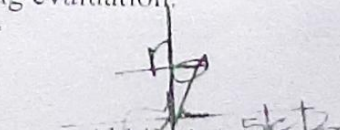
The proposed item is a head protector Safety Helmet with Paddle leash used for Water Rafting.

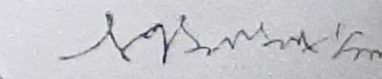
1. The Helmet should be made of hard and lightweight ABS outer cover with premium impact absorption EVA liner for superior protection and comfort.
2. Minimum 11 Air vents should be provided on the Helmet for easy drainage and breathability.
3. Adjustable chin strap with chin pad, quick release buckle & ratchet wheel adjustment should be equipped for a snug and perfect fit.
4. Waterproof comfortable ear protectors and interior lining should be provided.
5. Size of the Helmet should be from 55 to 62cms as per the supply order.
6. The Helmet should be in compliance with EN1385 standards. Relevant Documents of the product should be furnished along with the offer
7. A good quality paddle leash with copper buckle should be provided.
8. Colour – Orange/yellow for high visibility in dark or turbulent waters
9. Brochure of the proposed product should be uploaded along with the bid.
10. Sample should be submitted for verification during evaluation.


A.R. Arunkumar
Regional Fire Officer
Fire & Rescue
Services,
Kottayam


V. Sidhakumar
Regional Fire Officer
Civil Defence,
Thiruvananthapuram


K.M. Ashraf Ali
District Fire Officer
Fire & Rescue Services,
Thrissur



Abhilash K.R.
District Fire Officer
Fire & Rescue Services,
Alappuzha

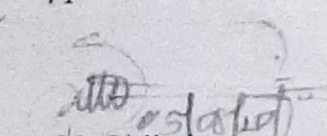

Sumesh Kumar A.G.
Station Officer (M.T)
Fire & Rescue Services,
Kottayam

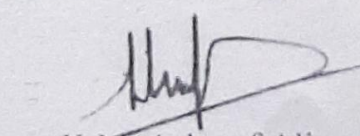
Technical Specification for THROW BAG

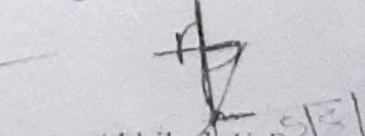
The proposed equipment is a rescue gear, which is a throw bag with a length of rope stuffed loosely into a bag so it can pay out through the top when the bag is thrown from land, boat or any stable platform, to a swimmer who is swimming down a river, can also be used for gear retrieval and for climbing.

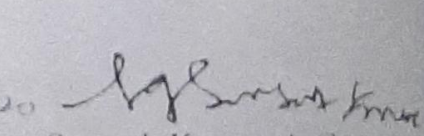
1. The Throw bag should be light weight and compact in shape for emergency work.
2. The opening of the bag should be 350mm (Approx.) with a barrel-lock drawstring incorporated in a flared nylon top for smoother throws, plus easy reloading and closure.
3. The bag should be provided with 50mm mesh panel for better drainage and reduced dry time and Internal foam flotation to keeps the bag on the top of the water.
4. 8mm polypropylene rope having not less than 25 Meter length should be provided with the bag.
5. The breaking strength of the rope should be more than 1000lbf.
6. Colour – Orange/yellow for high visibility in dark or turbulent waters
7. Brochure of the proposed product should be uploaded along with the bid.
8. Sample should be submitted for verification during evaluation.


A.R. Arunkumar
Regional Fire Officer
Fire & Rescue
Services,
Kottayam


V. Sidhakumar
Regional Fire Officer
Civil Defence,
Thiruvananthapuram


K.M. Asharaf Ali
District Fire Officer
Fire & Rescue Services,
Thrissur


Abhilash K R
District Fire Officer
Fire & Rescue Services,
Alappuzha


Sumesh Kumar A.G
Station Officer (M.T)
Fire & Rescue Services,
Kottayam

Technical Specification for TOOL KIT

(BOLT CUTTER, WIRE CUTTER, PLIERS & SCREW DRIVER SET)

The equipment proposed is a Set of Hand tools for emergency personnel.

1. Brochure of the proposed product should be uploaded along with the bid.
2. Sample of the proposed Life Buoy should be submitted for verification during evaluation.

A). Bolt Cutter

3. The Bolt Cutter should be made from high grade steel.
4. The jaws should be specially heat treated and accurately machined.
5. It should be facilitated with jaw replacement provision.
6. The handles should be powder coated for good appearance as well as rust prevention.
7. The grip area should be provided with sleeves to hold and operate smoothly with minimum effort.
8. Handles should provide maximum leverage reducing operator fatigue.
9. Cutting capacity Diameter – Not less than 20mm
10. Weight of the Cutter should not be more than 9Kg.
11. Bolt cutter should be conforming to IS5200-1998 or latest.

B). Wire Cutter

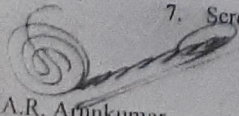
1. The Wire Cutter should be made from high grade steel.
2. It should be specially Drop forged and differentially hardened and tempered.
3. Cutting edges should be sharp and precision machined at appropriate angle to cut the wires with ease.
4. The handles should be provided with dip coated sleeves for cushioning grip.
5. Cutting capacity Diameter – Not less than 6mm
6. Weight of the Cutter should not be more than 1Kg.

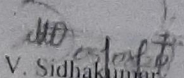
C). Pliers

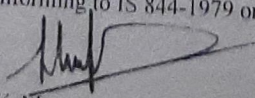
1. The Pliers should be made from high grade steel.
2. The jaws should be forged and differentially heat treated to give best performance.
3. It should be fully insulated with quality plastic material sleeves ensuring safe electrical working.
4. It should provide excellent wire cutting ability for soft and hard wires.
5. Length of Plier should not be less than 120mm
6. Weight of the Cutter should not be more than 350Gm.
7. Plier should be conforming to IS6149-1984 or latest.

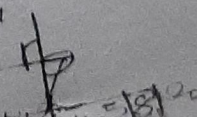
D). Screw Driver Set

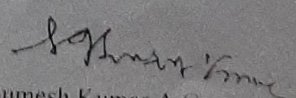
1. The blade of Screw Driver should be made from High Grade Silicon – Manganese Steel.
2. It should be differently hardened and tempered to resist wear, bending and meet high torque requirement
3. Hardness on tip should be : 55 to 58 HRC.
4. The blade tip should be magnetised to lift small screw etc. from confined spaces or to hold the screw in position.
5. The handle should be made from Transparent green cellulose acetate Plastic which is non-flammable and unaffected by oil petrol, grease, water etc.
6. The set should include:- Flat Screw Driver – (Length) 140mm, 225mm, 395mm – 1Each
Star Screw Driver – (Length) 110mm, 225mm, 395mm – 1Each
7. Screw Driver Set should be conforming to IS 844-1979 or latest


A.R. Arunkumar
Regional Fire Officer
Fire & Rescue
Services,
Kottayam


V. Sidhakumar
Regional Fire Officer
Civil Defence,
Thiruvananthapuram


K.M. Asharaf Ali
District Fire Officer
Fire & Rescue Services,
Thrissur



Abhilash K R
District Fire Officer
Fire & Rescue Services,
Alappuzha

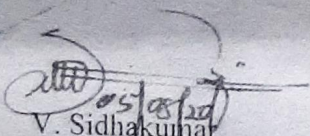

Sumesh Kumar A.G
Station Officer (M.I)
Fire & Rescue Services,
Kottayam

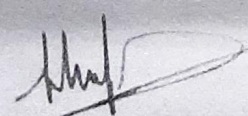
Technical Specification for TORCH (Solar Enabled)

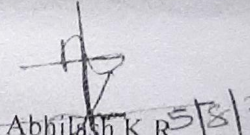
The equipment proposed is a Portable LED Flash Light with Charger, for emergency personnel.

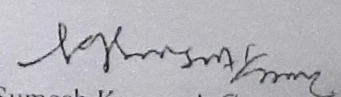
1. It should have impact resistance housing, unbreakable polycarbonate lens, should be 'O' ring sealed and water resistant.
2. The Torch should be rechargeable by both Solar Power and with USB Charger.
3. Light capacity - Not less than 350 Lumens.
4. Battery Capacity - Not less than 5v/2000 mAh. (Built in Battery)
5. Torch should be able to provide Front Light, Side Whiter Light and Red Flash Light.
6. Dimension - 20cmx5cmx5cm (Approx.)
7. Weight - 250Gms (Approx.)
8. Brochure of the proposed product should be uploaded along with the bid.
9. A full set of sample should be submitted for verification during evaluation.


R. Arunkumar
Regional Fire Officer
Fire & Rescue
Services,
Kottayam


V. Sidhakumar
Regional Fire Officer
Civil Defence,
Thiruvananthapuram


K.M. Asharaf Ali
District Fire Officer
Fire & Rescue Services,
Thrissur

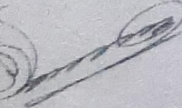

Abhilash K R
District Fire Officer
Fire & Rescue Services,
Alappuzha

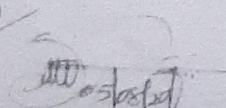

Sumesh Kumar A.G
Station Officer (M.T)
Fire & Rescue Services,
Kottayam

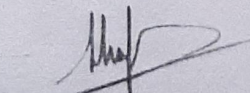
Technical Specification for DCP FIRE EXTINGUISHER


The equipment proposed is a stored pressure type DCP Fire Extinguisher filled with ABC Dry Chemical Powder, with squeeze grip type valve as a controllable discharge mechanism, braided PVC/rubber discharge hose with metallic nozzle, locking arrangement, bracket with two screw and sleeve.

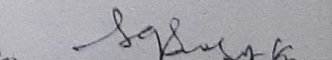
1. The Extinguisher should be confirming to IS: 15683:2006 and ISI marked and each extinguisher should be ISI marked.
2. The expelling media should be Dry Nitrogen and the Working Pressure should be 12-15Bar.
3. Capacity - Not less than 6Kg.
4. The extinguisher should be provided with a Pressure Gauge to indicate the inside pressure.
5. Body of Fire Extinguisher should be Cylindrical in shape made of Mild Steel Sheet conforming to IS 513/latest revision
6. Siphon tube should be made of metal.
7. Discharge hose Rest holder shall be of good quality & suitable type.
8. Extinguisher should be provided with wall mounting facility.
9. Date of manufacturing should be punched at bottom ring of the extinguisher.
10. Brochure of the proposed product and following certificates should be uploaded along with the bid.
 - a). A certified copy of BIS: 15683:2006 license certificate of the manufacturer
 - b). Cast analysis certificate for cylinder material.
 - c). Hydraulic Test certificate of the extinguishers.
 - d). Testing certificate for ABC type DCP conforming to IS-14609: latest revision
 - e). Guarantee certificate for minimum 01 year.
11. A full set of sample should be submitted for verification during evaluation.


R. Arunkumar
Regional Fire Officer
Fire & Rescue Services,
Kottayam


V. Sidhakumar
Regional Fire Officer
Civil Defence,
Thiruvananthapuram



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District Fire Officer
Fire & Rescue Services,
Thrissur


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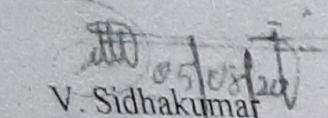

Sumesh Kumar A.G
Station Officer (M.I)
Fire & Rescue Services,
Kottayam

Technical Specification for BLANKETS

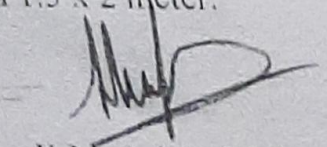
1. The blankets should be manufacture by woollen material.
2. Size should be not less than 1.5 x 2 meter.



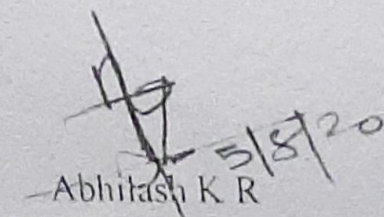
A.R. Arunkumar
Regional Fire Officer
Fire & Rescue Services,
Kottayam



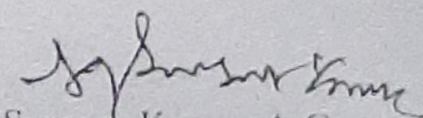
V. Sidhakumar
Regional Fire Officer
Civil Defence,
Thiruvananthapuram



K.M. Asharaf Ali
District Fire Officer
Fire & Rescue Services,
Thrissur



Abhilash K R
District Fire Officer
Fire & Rescue Services,
Alappuzha




Sumesh Kumar A.G
Station Officer (M.T)
Fire & Rescure Services,
Kottayam

Technical Specification for GOOGLES

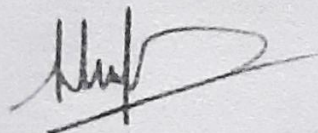
1. It should be anti - fog coated.
2. It should provide 100% sealing of the eyes against chemical, liquid splash.
3. It should have adjustable elastic head band and soft PVC casing around the goggle.
4. The goggle should be certified as per CE/ANSI/NFPA standards.



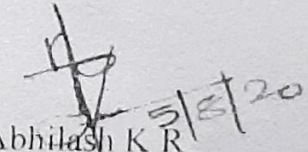
A.R. Arunkumar
Regional Fire Officer
Fire & Rescue Services,
Kottayam



V. Sidhakumar
Regional Fire Officer
Civil Defence,
Thiruvananthapuram

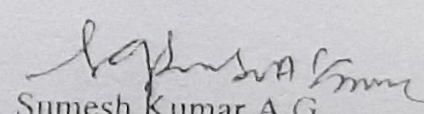


K.M. Asharaf Ali
District Fire Officer
Fire & Rescue Services,
Thrissur



5/8/20

Abhilash K R
District Fire Officer
Fire & Rescue Services,
Alappuzha



Sumesh Kumar A.G
Station Officer (M.T)
Fire & Rescue Services,
Kottayam

Technical Specification for WALKIE-TALKIE

1. The Licence free Walkie talkie should come with the standard accessories like Handset, charging unit, antennae etc.
2. A compactable head set should also be supplied.
3. Warranty should not be less than one year.
4. General Technical Specification as follows:


Frequency	UHF
Channel capacity	Not less than 16
Frequency band	446-446.2 MHz
Weight	Not more than 250 gms with battery
Temperature range	-20°C~±60°C
Operate mode	Simplex or semi duplex
Antenna impedance	50Ω

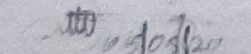
Transmitter

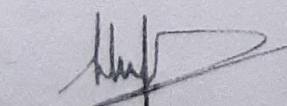
Tx power output	0.5 W
Frequency Stability	±1.5 PPM
Modulation limit	≤±2.5KHz@12.5KHz/≤±5.0KHz@23KHz
Audio response	+1-3dB
Audio distortion	≤3
FM modulation	12.5 KHz : 11KOF3

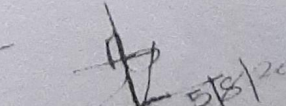
Receiver

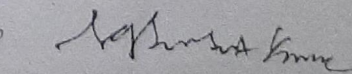
Sensitivity	0.20uV
Squelch sensitivity	0.18uV
Adjacent channel selectivity	60dB@12.5KHz/≥65dB@12KHz
Spurious rejection	≥60dB
Image rejection	≥65dB
Audio response	+1-3dB
Audio power	≥1W


A.R. Arunkumar
Regional Fire Officer
& Rescue Services,
Kottayam


V. Sidhakumar
Regional Fire Officer
Civil Defence,
Thiruvananthapuram


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District Fire Officer
Fire & Rescue Services,
Thrissur



Abhilash K R
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Fire & Rescue Services,
Alappuzha

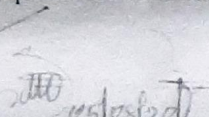

Sumesh Kumar A.G
Station Officer (M.T)
Fire & Rescue Services,
Kottayam

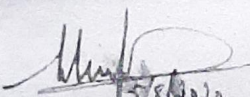
Technical Specification for GUM BOOT

The item proposed is a pair of Gum Boot, for emergency personnel.

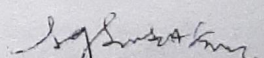
1. It should have soft upper material and harder sole in double colour.
2. The upper material should be high quality rubberised material flexibility and durability.
3. The boot should be of Wellington design and the complete body should be reinforced with heavy duty cotton lining.
4. The toes should be provided with Steel Toe Cap as per ISI Standards providing maximum safety.
5. The boots should provide abrasion resistance, oil and acid resistance, slip resistance and heat resistance.
6. Height should not be less than 300mm.
7. The boot should be in compliance with latest version of IS15298 standard.
8. Should be supplied in different sizes from 6 to 12 as per supply order.
9. Brochure of the proposed product should be uploaded along with the bid.
10. Sample should be submitted for verification during evaluation.


A.R. Arunkumar
Regional Fire Officer
Fire & Rescue
Services,
Kottayam


V. Sidhakumar
Regional Fire Officer
Civil Defence,
Thiruvananthapuram


K.M. Asharaf Ali
District Fire Officer
Fire & Rescue Services,
Thrissur



Abhithash K R
District Fire Officer
Fire & Rescue Services,
Alappuzha

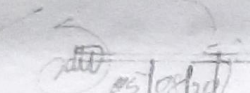

Sumesh Kumar A.G
Station Officer (M.T)
Fire & Rescue Services,
Kottayam

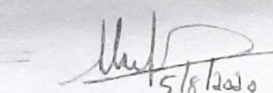
Technical Specification for AXE/HATCHET 3KG


The equipment proposed is an Axe/Hatchet for emergency applications like forcible entry, chopping etc.

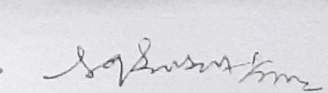
1. The Axe should be confirming to BS:2957:1958 or latest version and should be marked on each item.
2. The blade should be made from Carbon Steel and the cutting edge shall be 72mm (Approx).
3. The cutting edge should be heat treated for efficient performance.
4. It should be fitted with rubber insulated handle tested to 20000v.
5. The Axe head should be joined to the handle with a strong chemical/mechanical bond.
6. Weight of the Axe should be 3Kg. (Approx)
7. Brochure of the proposed product should be uploaded along with the bid.
8. Sample should be submitted for verification during evaluation.


A.R. Arunkumar
Regional Fire Officer
& Rescue Services,
Kottayam


V. Sidhakumar
Regional Fire Officer
Civil Defence,
Thiruvananthapuram


K.M. Ashraf Ali
District Fire Officer
Fire & Rescue Services,
Thrissur



Abhilash K R
District Fire Officer
Fire & Rescue Services,
Alappuzha

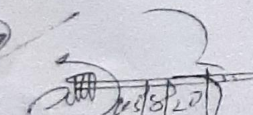

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Station Officer (M.T)
Fire & Rescue Services,
Kottayam

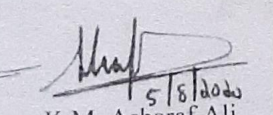
Technical Specification for PARK PICKETS

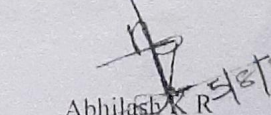
The proposed item is temporary barricades applicable for controlling crowds, re-directing traffic flow etc. during emergency at hazard areas effectively, easily and safely. It shall also be used as rigid barrier, by filled with water/sand.

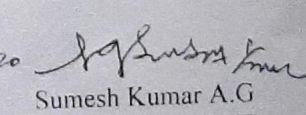
1. The plastic barriers should be made out of high quality premium grade UV Stabilized Virgin Polyethylene material. It should be completely maintenance free.
2. It should be provided with connect-bars which mates solidly, to easily join multiple barriers to form a wall.
3. Each module should be light enough to be installed/positioned by one person yet once filled with water/sand forms a rigid barrier.
4. It should be well engineered, facilitate easy handling and should be very easy to install/fit and should withstand the high wind pressure generated by fast moving vehicles.
5. Strips of retro-reflective sheets should be pasted on the barrier to help enhance night vision.
6. The barriers should be in red and yellow colours to provide high contrast and maximum visibility.
7. Brochure of the proposed product should be uploaded along with the bid.
8. Sample should be submitted for verification during evaluation.


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Fire & Rescue
Services,
Kottayam


V. Sidhakumar
Regional Fire Officer
Civil Defence,
Thiruvananthapuram


K.M. Ashraf Ali
District Fire Officer
Fire & Rescue Services,
Thrissur



Abhilash K R
District Fire Officer
Fire & Rescue Services,
Alappuzha


Sumesh Kumar A.G
Station Officer (M.T)
Fire & Rescue Services,
Kottayam

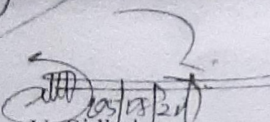
Technical Specification for PADDLES

The proposed item is a Pair of Paddles used to propel the boat manually, by emergency personnel.

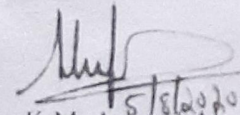
1. The Paddles should be made of high quality, durable, lightweight, corrosion resistant and environmentally friendly material.
2. The design should be scientifically curved and pipelined for smoother paddling.
3. The complete paddle should be split into several parts, to makes it easy and convenient to carry.
4. It should be provided with foam grips for added comfort.
5. Paddle size: – Blade or Spoon surface should be 30 x 15cm. (Approx.)
Shaft Diameter: 3cm, Shaft Length: 100cm. (Approx.)
Weight: 1Kg. (Approx.)
6. Brochure of the proposed product should be uploaded along with the bid.
7. A full set of sample should be submitted for verification during evaluation.



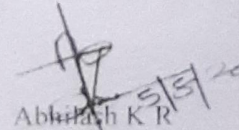
Arunkumar
Regional Fire Officer
Fire & Rescue
Services,
Kottayam



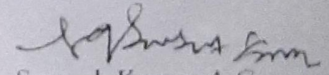
V. Sidhakumar
Regional Fire Officer
Civil Defence,
Thiruvananthapuram



K.M. Ashraf Ali
District Fire Officer
Fire & Rescue Services,
Thrissur



Abhilash K R
District Fire Officer
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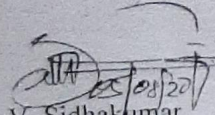
Sumesh Kumar A G
Station Officer (M.T)
Fire & Rescue Services,
Kottayam

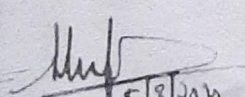
Technical Specification for ANCHORS

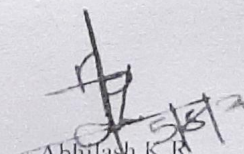
The proposed item is a set of Anchor used to keep the inflatable boats anchored in a stable position.

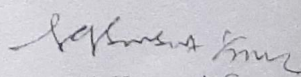
1. The set should include a painted iron anchor, a nylon rope (50m), a PVC float, a stainless steel snap clip and an anti-shock SBR storage bag.
2. The painted iron anchor should be provided with minimum four Tines.
3. The Tines should be foldable type for easy storage. It should be opened when in use.
4. The anchor should be able to be grounded easily and quickly in mud, sand gravel and rock bottoms.
5. It should be provided with foam grips for added comfort.
6. Anchor should have
Length – Not less than 30cm.
Tine Length - Not less than 15cm.
Weight- Not less than 10Kg.
7. Brochure of the proposed product should be uploaded along with the bid.
8. A full set of sample should be submitted for verification during evaluation.


R. Arunkumar
Regional Fire Officer
Fire & Rescue Services,
Kottayam


V. Sidhakumar
Regional Fire Officer
Civil Defence,
Thiruvananthapuram


K.M. Asharaf Ali
District Fire Officer
Fire & Rescue Services,
Thrissur



Abhilash K R
District Fire Officer
Fire & Rescue Services,
Alappuzha

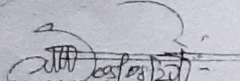

Sumesh Kumar A.G
Station Officer (M.T)
Fire & Rescue Services,
Kottayam

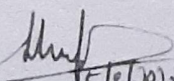
Technical Specification for OARS & ROWLOCKS


The proposed item is a Pair of Oars used to propel the boat manually, by emergency personnel and Row Locks are fulcrum points attached to the side of the boat, to transfer power from the handle to the blades.

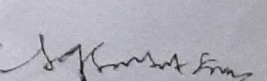
1. The Oar shaft should be made of high quality Polypropylene/Carbon Fibre material, durable, lightweight and environmentally friendly.
2. The Length of Shaft should be adjustable to various sizes from 284 to 370cm'
3. It should be suitable for sweep rowing as well as sculling.
4. The size of Blade or Spoon surface should be 40 to 50 cm long and 25 cm wide.
5. The shape of spoon area is of "cleaver" design.
6. The weight of single Oar should not be more than 2.5Kg.
7. The Rowlocks should be strong enough to support the Oars properly and should be made up of any non-corrosive material.
8. It should have a locking shaft which, once inserted into the rowlock socket, prevents the rowlock from jumping out.
9. Rowlock size. - Mouth: 50mm
Overall height: 120mm
Maximum width: 58mm
Shaft Length: 38mm
Shaft Diameter: 12mm
10. The Oars and Rowlocks should be certified as per relevant standards.
11. Brochure of the proposed product should be uploaded along with the bid.
12. A full set of sample should be submitted for verification during evaluation.


R. Arunkumar
Regional Fire Officer
Fire & Rescue
Services,
Kottayam


V. Sidhakumar
Regional Fire Officer
Civil Defence,
Thiruvananthapuram


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District Fire Officer
Fire & Rescue Services,
Thrissur


Abhilash K R
District Fire Officer
Fire & Rescue Services,
Alappuzha


Sumesh Kumar A.G
Station Officer (M.T)
Fire & Rescue Services,
Kottayam