


अकोला महानगरपालिका, अकोला
जलप्रदाय विभाग
शुध्दीपत्रक

अकोला महानगरपालिका, जलप्रदाय विभाग अंतर्गत जिल्हा वार्षिक योजना सर्वसाधारण निधी सन २०१७-१८, ई-निविदा क्र. १८९२, दिनांक ०६.०५.२०१७ रोजी प्रकाशित झाली असून कामाचे नाव : कापशी तलाव येथे वॉटर स्पॉट इक्वीपमेंट पुरविणेच्या कामाचे ई-निविदा रु. ७०,०२,५००/- प्रकाशित करण्यात आले असून सदरहु नमुद निविदेत स्पेशिफिकेशन शुध्दीपत्रक (तिसरी वेळ) नमुद संकेत स्थळावर वाचण्यात यावे.

(संपर्क : ९९२२९९९०१६)

Portal <https://maharashtra.etenders.in>

Sub portal <https://aklmc.maharashtra.etenders.in>


कार्यकारी अभियंता
जलप्रदाय विभाग
अकोला महानगरपालिका, अकोला

TECHNICAL SPECIFICATIONS OF WATER SPORTS ITEMS

1. JET SKI:

- Length of the Jetski should be Minimum 322 cm
- Width of the Jetski should be Minimum 115 cm
- Height of the Jetski should be Minimum 115 cm
- Dry Weight of the Jetski should be Maximum 250 Kgs
- Engine Type: 2-Cylinder, 2-Stroke
- Displacement of the Jetski should be Minimum: 700
- Bore X Stroke: 81 mm x 68 mm
- Compression Ratio: 7.2 : 1
- Cooling System: Water Cooled
- Pump type: 155mm
- Fuel: Regular Unleaded Gasoline
- Fuel Supply System: Float less Carburetor Mikuni BN38 x 2
- Fuel Capacity of the Jetski should **be Min 25 Liter**
- Lubrication System: Oil Injection Mixing ratio 50:1
- Total Oil Capacity : 4.5 Liter
- Rider Capacity: 1-3 persons

2. 1 BANANA BOAT -I: 8 SEATER

- Banana type towable with holding supports should be provided
- Heavy Duty PVC material should be used.
- It should have the shape of Dolphin.
- Capacity: 8 person
- Foot Pump & Repair Kit should be provided

2.2 BANANA BOAT -II: 10 SEATER

- Banana type towable with holding supports should be provided
- Heavy Duty PVC material should be used
- It should be a double sided banana boat.
- Capacity: 10 person
- Foot Pump & Repair Kit should be provided

3.1 TOWABLE I :

- Double Stitched Nylon Full Cover with Zipper should be provided
- P.U Fabric Coating should be provided
- Double Webbing Foam Handles with Knuckle Pads should be provided
- Foam Flat Handles should be provided
- EVA Foam Body Pad should be provided
- 45° Angle Sides for Stability should be there
- Reinforced Tow System should be provided
- Self Bailing Drain Vent should be provided
- Heavy Gauge PVC Bladder should be used
- One Chamber Inflation should be there
- Padded Valve Cover should be used
- Speed Safety Valve should be provided
- Capacity: 3 person

3.2 TOWABLE II :

- High Visibility Custom Graphics should be there
- Heavy-Duty Full Nylon Cover with Zipper should be there
- Heavy-Gauge PVC Bladders should be there
- High-Back Recumbent Seating should be there
- Aluminium Quick Connect Tow System should be there
- Front and Rear Tow Points for Multiple Riding should be there
- Double Webbing Foam Handles should be there
- Foam Knee and Knuckle Guards should be there
- Self Bailing Drain Vents should be provided
- capacity: 4 person

3.3 TOWABLE III :

- Exclusive Reduced Drag Nose Design should be there
- Heavy-Duty Full Nylon Cover with Zipper should be there
- Heavy-Gauge PVC Bladders should be there
- High-Back Recumbent Mesh Seating should be provided
- Aluminum Quick Connect Tow System should be there
- The weight capacity should be up to 310 kg.
- capacity: 4 person

3.4 TOWABLE IV : 4 SEATER

- It has to be 4 rider towable.
- Two riders sit in front with a comfortable inflatable backrest and side panels to keep them in place.
- Inflation and deflation is easy with the two patented Speed Safety Valves.
- capacity: 4 person
- It should have a High inflatable backrest and side walls offer support for riders
- Should have provision for Ride seated in front or kneeling in back
- It should have Heavy-gauge PVC inflatable bladders
- It should have Rugged nylon construction to withstands wear and tear
- It should have Neoprene padding to ensure riders stay comfortable
- Boarding straps feature knuckle guards for added protection to be provided

4.1 KAYAK SINGLE :

- Length of the Kayak should be Minimum 300 cm, Beam – Minimum 75 cm, Depth – Minimum 30 cm
- Cockpit should be of Open type
- Weight of the Kayak should be Maximum 25 kg
- Max. Capacity of the Kayak should be min 130 kg with seating capacity of 1 person
- Hull Material of Kayak should be HDPE (High Density Poly Ethylene)
- Manufacturing Technology should be Twin Sheet Thermoforming (TST) **technology / Rotomoulding**
- Kayak should be provided with adjustable padded backrest
- 1 oar to be provided
- There should be provision for bottle holder Carrying handles to be provided, Drain plug & Molded footrests should be provided
- Storage platform with bungee should be provided

4.2 KAYAK DOUBLE :

- Length of the Tandem Kayak should be Minimum 380 cm, Beam – Minimum 85 cm, Depth – Minimum 40 cm
- Cockpit should be of Open type
- Weight of the Tandem Kayak should be Max 30 kg
- Max. Capacity of the Tandem Kayak should be min 200 kg with seating capacity of 2 person
- Hull Material of Tandem Kayak should be HDPE (High Density Poly Ethylene)
- Manufacturing Technology should be Twin Sheet Thermoforming (TST) technology and not Rotomoulding
- Hull Type should be Shallow Twin-Arched and V Hull
- Kayak should be provided with adjustable padded backrest

- 2 oars to be provided
- There should be provision for bottle holder
- Carrying handles to be provided
- Drain plug & footrests should be provided
- Storage platform with bungee should be provided

5. PADDLE BOAT FOUR SEATER:

- The length of the Family Pedal Boat to be minimum 420 cm
- The breath of the family pedal boat to be minimum 150cm
- The height of the family pedal boat to be minimum 95 cm
- The weight of the pedal boat should be 175 Kgs
- Maximum Capacity of the Pedal Boat should be 400 kg with seating capacity of 4 to 5 person
- Hull Material of Family Pedal Boat should be **HDPE**
- Propulsion system - Pedal with Propeller
- Should have built in storage system
- Sunshade, tug wheel, seat cushion to be provided

6. FERRY BOAT 10 SEATER WITH ENGINE:

- Length of the Boat should be minimum 440 cm
- Beam of the Boat should be minimum 220 cm
- Hull Weight of the Boat should be maximum 250 Kg
- Capacity of the Boat should be 10 Person
- Hull Material should be HDPE & Hull Type should be 'V' Shaped
- OBM: 40 HP 2 stroke Tiller, Manual Start, Manual Trim & Tilt Yamaha/ Mercury/ Tohatsu /Suzuki OBM should be provided
- OBM panel should be provided for fixing OBM
- Drain bungs & Towing eye should be provided
- Mooring cleat should be provided
- Anchor bin, anchor hatch, fender strip should be provided
- Anti slipping floor should be provided
- Cushion seats should be provided
- Compass should be provided
- Ferry Boat should be IRS/ CE Certified

7. LIFE JACKETS:

- Life Jacket should be made of 2 mm Neoprene material
- Life Jacket should be made of durable & breathable sandwich to release water quickly
- Life Jacket should be equipped with front zipper for easy wear & tight closure
- Life Jacket should have 2 buckle straps to ensure safety tight
- Life Jacket should have integrated NBR foam inside for the best flotation
- Life Jacket should have flat lock stitched construction for non-chafing wear

8. OTHER SAFETY & MARKING EQUIPMENTS:

MARKING BUOYS: 150 Nos. Qty.

- Weight of the marking buoy should be Minimum- 300 gms
- Buoyancy of the marking buoy should be minimum 2000 gms,
- Size of the marking buoy should be approx 200X150X30 mm

Life Buoy: 15 Nos. Qty.

- The diameter of the buoy should be minimum 60 cms
- The thickness of the buoy should be minimum 7 cms
- The inner diameter of the buoy should be upto 33 cms.
- They buoy should have replaceable encircling rope.

Rescue buoy tube: 10 Nos. Qty.

- The size of rescue buoy tube should be minimum 102 cm x 6 cm.
- The material should be Polyethylene EVA
- It should have accessories of 153 cm webbing with brass fastener, 1.5 yard cotton rope and straps

9. FLOATING PLATFORM:

- The Floating platform should be made of High Grade High Density Polyethylene whose melt flow rate should be less than 3 g / 10 min @ 190°C and 21.6 kg
- Each cube of Floating platform should be of L: 50 cm, B: 50 cm, H: 40 cm
- Weight of Each cube of the Floating platform should be 8-9 kgs
- Load carrying capacity should be Minimum 350 kgs/sqm
- The shape of Each cube of the Floating platform should be 3-Dimensional such that the cubes can interlock by themselves

- Each cube should have an Anti-Skid Top Surface as an Integral part of it
- The top surface should be fitted inside the side walls of Each cube of the Floating Platform and it should be bolted in such a way that there is no leakage of water from the point in which bolt is fixed between top and below surface thus making the surface the best Anti Skid surface available worldwide
- There should be one more surface below the top surface with a gap in between top surface and surface below to enable expansion contraction of Floating platform which can also be used for passing of electric cables & water hoses if required
- The lug thickness of Each cube of the Floating platform should be 21-22 mm to ensure sufficient strength to the structure
- Test certificate of Melt Flow Rate of Raw Material should be submitted along with Technical Bid from CIPET India or any reputed Government Laboratory which are acceptable internationally
- Proof of Purchase of Raw Material from the Manufacturer needs to be submitted along with Technical Bid whose Melt Flow Rate Certificate is submitted
- Sample of Floating platform (single cube) should be submitted along with Technical Bid for Physical Technical Verification
- Area of platform is 80 sqm as directed by commissioner AMC Akola.
- **Do the needful in addendums Indian manufacture is LLDPE which has more strength than HDPE & also allow LLDPE , G-9641U technical data sheet of G-9641U as below.**

Powder Properties			
Typical Properties	Test Method	Unit	Typical Values
Melt Flow Index (190^oC/2.15 Kg)	ASTM D1238	Gm/10 min	4
Density (23^oC)	ASTM D1505	Gm/cm³	0.939
ESCR (F₅₀, 100% Igepal, 1.9 mm specimen, 50^oC)	ASTM D1693	hr	100
Brittleness Temperature	ASTM D746	^oC	<-70
Vicat Softening Point	ASTM D1525	^oC	118

Product Properties			
Typical Properties	Test Method	Unit	Typical Values
Tensile Strength at Yield	ASTM D638	MPa (Kg/cm²)	20 (204)
Tensile strength at Break	ASTM D638	MPa (Kg/cm²)	25 (255)
Elongation at Break	ASTM D638	%	950
Notched Izod impact strength	ASTM D256	Kg.cm/cm	50 (Partial Break)
Flexural Modulus	ASTM D790	MPa (Kg/cm²)	750 (7650)
Durometer Hardness	ASTM D2240	Shore D	57

Note :- Mode of Measurement

- 1) 80% payment after supply of water sports item & floating platform.
- 2) 15% after Commissioning all water sports items & floating platform.
- 3) 5% after Commissioning one months.