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## DISTRICT FISHERIES OFFICE, SUNDARGARH

No. 1867 / Date. 30.06.2023

### Tender Call Notice

Sealed bids in plain paper/letter pad are invited from the intending Registered Firm/Authorised Distributers/Dealers having valid Registration Certificate under GST and Income tax clearance certificate for supply of Life Jackets(Adult) as per the specification given below.

| Sl. No. | Name of the Items   | Specification  | Rates to be Quoted      | Quantity Required (approx.) |
|---------|---------------------|--|-------------------------|-----------------------------|
| 1       | Life Jacket (Adult) | As per Product Manual for Life Jacket according to IS 6685:2009, Bureau of Indian Standards (copy enclosed)/ IRS approved(Latest approval copy to enclosed with bid) | Price per unit with GST | 250 nos.                    |

The tender completed in all respect should reach the undersigned on or before 26.07.2023 by 5.00PM through Speed Post/Registered Post or in-person. The sealed quotation will be opened on 27.07.2023 at 11.30AM at the Office chamber of the District Fisheries Officer in presence of bidders or their authorised representatives.

The undersigned reserves the right to reject all or any of the quotation without assigning any reason thereof.

#### Bid Price:

1. Transportation charges to be included in the Bid Price.
2. All duties, taxes and other levies payable by the dealer under the contract shall be included in the total price.
3. The rates quoted by the bidder shall be fixed for the duration of contract and shall not be subject to adjustment on any account.
4. The price should be quoted in Indian Rupees only.
5. **Each bidder shall submit only one bid.**

#### Eligibility Criteria of the Bidder:

- The bidder shall furnish the following documents to establish the bidder's eligibility.
1. The copies of valid GST Registration Certificate, income tax clearance certificate, PAN card and Dealer Certificate in support of Firms/Supplier/Dealer.

**Evaluation of the quotation:**

The purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which are **properly signed and in accord with the terms, conditions and specification.**

Tender received late and incomplete will not be considered. The bidder should sign and stamp each page of the Tender Documents.

**Bid Security:**

The bidder shall furnish bid security of Rs.5000/- (Rupees Five Thousand Only) in the shape of account payee Demand Draft from any scheduled commercial bank payable at Sundargarh in favour of District Fisheries Officer, Sundargarh along with the tender paper. After completion of the tender process the amount will be refunded to the unsuccessful bidders.

The bid security of successful bidder will be refunded after the supply of the required quantity of the Life Jackets to District Fisheries Officer, Sundargarh as per the stated specification with all terms and conditions.

The articles should be supplied within 10 days of the receipt of order. If the bidder fails to supply the articles within the stipulated time, the Security Deposit shall be forfeited.

Interested bidders may submit their Tenders in the prescribed format mentioning "Tender bid for supply of Life Jacket (Adult)" on the cover of the envelop, to the District Fisheries Officer, Sundargarh latest by 5.00PM on 26.07.2023. The tender will be opened on 27.07.2023 at 11.30AM in presence of bidders or their authorised representatives.

The Lowest Bidder cannot claim for supply of articles, as the articles will be purchased as per the specification, quality and requirement of District Fisheries Officer, Sundargarh.

**Tender to be sent to the following Address:**

District Fisheries Officer, Sundargarh  
LIC Office Road, Sundargarh-770001

The bidders or their authorised representatives are requested to come with sample of the Life Jackets(Adult) as per the stated specification on the day of opening of sealed quotation.

Sd/-(A.K.Sahoo)  
District Fisheries Officer  
Sundargarh

**Memo No.**                      **Date.**

Copy to Office Notice Board for publication.

*sd/-*  
**District Fisheries Officer**  
**Sundargarh**

**Memo No.** 1869      **Date.** 30.06.2022

Copy submitted to the District Information Officer, NIC Sundargarh for kind information with request to web-host the tender call notice in [www.sundargarh.nic.in](http://www.sundargarh.nic.in)

*sd/-*  
**District Fisheries Officer**  
**Sundargarh**

**Memo No.**                      **Date.**

Copy submitted to the Deputy Director, Advertisement, I& PR Department, Govt. of Odisha with a request to take necessary steps for advertise the same in any widely circulated Odisha daily news paper.

*sd/-*  
**District Fisheries Officer**  
**Sundargarh**

**Memo No.**                      **Date.**

Copy submitted to the Director of Fisheries, Odisha, Cuttack/Dy. Director of Fisheries (Keonjhar Zone), Keonjhar for kind information.

*sd/-*  
**District Fisheries Officer**  
**Sundargarh**

**Memo No.**                      **Date.**

Copy submitted to the General Manager (CSR), SAIL, RSP for kind information. She is requested to depute one officer to remain present during the opening of tender and to monitor the procurement of Life Jackets.

*sd/-*  
**District Fisheries Officer**  
**Sundargarh**



**PRODUCT MANUAL FOR  
LIFE JACKETS  
ACCORDING TO IS 6685: 2009**

*This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure coherence of practice and transparency in operation of certification under Scheme-I of Bureau of Indian Standards (Conformity Assessment) Regulations, 2018 for various products. The document may also be used by prospective applicants desirous of obtaining BIS certification licence/certificate.*

|    |   |   |   |
|----|---|---|---|
| 1. | <b>Product</b>                          | : | IS 6685: 2009   |
|    | <b>Title</b>                            | : | Life Jackets- Specification   |
|    | <b>No. of Amendments</b>                | : | Nil   |
| 2. | <b>Sampling Guidelines:</b>             |   |   |
| a) | <b>Raw material</b>                     | : | <ul style="list-style-type: none"> <li>a) Retro reflector- as per Cl. 3.11</li> <li>b) Buoyant material- as per Cl. 8</li> <li>c) Material for protection of buoyant material- as per Cl. 9</li> <li>d) Cotton duck- as per Cl. 10.1</li> <li>e) Coating for unicellular plastic buoyant material- as per Cl. 10.2</li> <li>f) Webbing, Tapes and Cords- as per Cl.13</li> <li>g) Cotton sewing thread- Variety No. 35 of IS 1720</li> <li>h) Outer cover of jacket (Visibility requirements)- as per Cl. 11</li> <li>i) Material for inflatable life jacket- as per Annex E</li> </ul> |
| b) | <b>Grouping guidelines</b>              | : | Please refer ANNEX – <u>A</u>   |
| c) | <b>Sample Size</b>                      | : | 20 Nos  |
| 3. | <b>List of Test Equipment</b>           | : | Please refer ANNEX – <u>B</u>   |
| 4. | <b>Scheme of Inspection and Testing</b> | : | Please refer ANNEX – <u>C</u>   |
| 5. | <b>Possible tests in a day:</b>         |   | Please refer ANNEX – <u>D</u>   |
| 6. | <b>Scope of the Licence</b>             |   | Please refer ANNEX – <u>E</u>   |

ANNEX A

Grouping Guidelines

1. Life jackets as per IS 6685: 2009 can be classified according to the following:
  - Type – Adult size, Child size
  - Buoyant Material- Unicellular Plastics/ Kapok/ Cork
  - Inflatable Characteristics- Inflatable/ Non- inflatable
  - Type of Light – Constant Light or Flashing Light
  - Colour- Traffic Yellow/ Light Orange/ Indian Saffron
  
2. Considering the above, the guidelines given below shall be followed for GoL/CSoL:
  - (a) Sample from each Type (Adult size/ Child size) for each Buoyant Material with any colour of outer cover shall be tested to cover that particular variety in the Scope of Licence.
  - (b) Inflatable life jacket and Non- inflatable life jacket shall be tested separately to cover that particular variety.
  - (c) For including jacket with any other colour in the scope of licence for the varieties as per 2 (a) and 2 (b) above, only Visibility Test as per clause 11 need to be done.
  - (d) If sample with Flashing Light is tested then life jacket with constant light may also be covered.
  
3. The Firm shall declare the varieties they intend to cover in the Licence. The Scope of Licence may be restricted based on the Manufacturing and Testing capabilities of the Manufacturer.
  
4. During the operation of the Licence, BO shall ensure that all the varieties covered in the Licence are tested in rotation, to the extent possible.

**ANNEX B****List of Test Equipment***Major test equipment required to test as per the Indian Standard*

| <b>Sl. No.</b> | <b>Tests used in with Clause Reference</b>        | <b>Test Equipment</b>   |
|----------------|---|---|
| 1.             | Ease of Donning Cl. 4.3                           | Availability of suitable Test Persons as per Cl. A-1.1<br>Different Winter and Summer Clothes for Test person<br>Stop Watch   |
| 2.             | Tests as per Cl. 4.6 to Cl.4.8                    | Availability of suitable Test Swimmers as per Cl. A-2.1<br>Swimming Costume<br>Stop Watch<br>Arrangement for Jumping in pool from a height of 4.5 m<br>Angle measurement<br>Pond or Swimming Pool minimum 25 m length   |
| 3.             | Ease of Extraction from Water, Cl. 4.10           | Test Rig with Dummy as per Fig 1<br>Balance<br>Suitable lifting device  |
| 4.             | Tests for Children's life jacket, Cl. 5.3         | Availability of suitable Test Persons as per Annex C  |
| 5.             | Buoyancy, Cl. 6                                   | Tank as per Cl. D-1.1<br>Spring Balance<br>Wire Mesh Basket as per Cl. D-1.3<br>Weights   |
| 6.             | Test for Inflatable Life Jackets Cl. 6.4, Annex E | Deep Freezer capable to maintain temperature of -30 °C<br>Oven<br>Steady Force of 220+-10 N<br>Angle Protector<br>Stop Watch<br>Gas Cylinder as per manufacture's recommendation<br>Pressure Gauge<br>75 kg Sand Bag as per Cl. E-7<br>Lowering arrangements as per E-7<br>Corrosion Resistance Test as per ISO 9227<br>Magnetic Compass<br>Controlled Room with Temperature Control as per E-9<br>Spray Arrangement as per E-9 |
| 7.             | Distribution of Buoyancy Cl. 7                    | Pond or Swimming Pool<br>Scale, Angle Protector<br>Stop Watch   |

|     |  |   |
|-----|--|---|
| 8.  | <b>Buoyant Materials, Cl 8</b>                                 |   |
| 9.  | Unicellular Plastics, Cl 8.1                                   | Oven<br>Suitable measuring equipments for Taking Dimensions<br>Deep Freezer capable to maintain temperature of -30 °C<br>Oil Tank as per K-1, Diesel Oil<br>Water Tank as per F-2<br>Weighing Balance |
| 10. | Kapok, Cl. 8.2   | Humidity Chamber<br>Weighing Balance, Weights<br>Buoyancy Bag as per Fig1 & 2 of IS 3040<br>Suitable Container with clean water as per A-2.1 of IS 3040   |
| 11. | Cork, Cl. 8.3  | Vernier Caliper<br>Weighing balance   |
| 12. | <b>Visibility, Cl. 11</b>                                      |   |
| 13. | Colour, Cl. 11.1   | As per IS 5   |
| 14. | Colour Fastness due to action of light                         | Blue wool reference materials 1 to 8<br>Blue wool reference materials L2 to L9<br>humidity-test control fabric<br>Laboratory exposure devices as per Cl. 5.2 of IS/ISO 105-B02                        |
| 15. | Colour Fastness due to action of sea light                     | Testing Devices as per Cl. 4.1 of IS 690<br>Air Oven<br>Two Adjacent Fabrics as per Cl. 4.3 of IS 690<br>Grey Scale<br>Pure Sodium Chloride, Distilled Water  |
| 16. | Webbing, Tapes and Cords, Cl. 13                               | Tensile Testing Machine   |
| 17. | Strength of Neck Opening and Fastening Device, Cl. 16, Annex J | 91 kg weight<br>A suitable rig for suspending the jacket and the weight<br>Suitable grips or slings, Arrangements as per Annex J  |
| 18. | Strength Test Cl. 17   | Test Rig with Dummy<br>Various Weights up to 3200 N<br>Stop Watch   |
| 19. | Temperature Cycling Test                                       | Cold and warm chambers/ Deep Freezer capable to maintain temperature of -30 °C/ Oven  |
| 20. | Oil Resistance Test as per Cl. 19                              | Oil Tank as per K-1<br>Diesel Oil   |
| 21. | Fire Test, Cl.   | Fire Chamber/Tank<br>Stop Watch   |

*The above list is indicative only and may not be treated as exhaustive.*

ANNEX C

**Scheme of Inspection And Testing**

**1. LABORATORY** - A laboratory shall be maintained which shall be suitably equipped (as per the requirement given in column 2 of Table 1) and staffed, where different tests given in the specification shall be carried out in accordance with the methods given in the specification.

**1.1** The manufacturer shall prepare a calibration plan for the test equipments.

**2. TEST RECORDS** – The manufacturer shall maintain test records for the tests carried out to establish conformity.

**3. LABELLING AND MARKING** – As per the requirement of Cl. 24 of IS 6685: 2009.

**3.1** In addition, information with each life jacket shall be supplied as per Cl. 21 of IS 6685.

**4. CONTROL UNIT** – Number of life jackets of a particular size, buoyant material, inflatable characteristics and colour manufactured in a day shall constitute a control unit.

**5. LEVELS OF CONTROL** - The tests as indicated in column 1 of Table 1 and the levels of control in column 3 of Table 1, shall be carried out on the whole production of the factory which is covered by this plan and appropriate records maintained in accordance with paragraph 2 above.

**5.1** All the production which conforms to the Indian Standards and covered by the licence should be marked with Standard Mark.

**6. REJECTIONS** – Disposal of non-conforming product shall be done in such a way so as to ensure that there is no violation of provisions of BIS Act, 2016.

TABLE 1

| Cl.             | (1)<br>Test Details                       |                                       |           | (2)<br>Test equipment requirement<br>R: required (or)<br>S: Sub-contracting permitted | (3)<br>Levels of Control |                           |   | Remarks |
|-----------------|---|---------------------------------------|-----------|---|--------------------------|---------------------------|---|---------|
|                 | Requirement                               | Test Method                           |           |   | No. of Sample            | Frequency                 | Control   |         |
|                 |   | Clause                                | Reference |   |                          |                           |   |         |
| <b>3.</b>       | <b>GENERAL REQUIREMENTS</b>               |                                       |           |   |                          |                           |   |         |
| 3.11            | --  | 3.11                                  | IS 6685   | S   | One                      | Each Consignment          | Please see Note 1   |         |
| <b>4.</b>       | <b>DESIGN REQUIREMENTS</b>                |                                       |           |   |                          |                           |   |         |
| 4.1             | Collar                                    | 4.1                                   | IS 6685   | R   | Each Jacket              | Each Jacket               | --  |         |
| 4.3             | Ease of Donning                           | 4.3<br>Annex A                        | IS 6685   | R   | Six                      | Every<br>7th Control Unit | --  |         |
| 4.6             | --  | 4.6<br>Annex-A                        | IS 6685   | R   | Six                      | Every<br>7th Control Unit | --  |         |
| 4.7             | Speed, Ease of Rotation and Self Righting | 4.7<br>Annex-A                        | IS 6685   | R   | One                      | Every<br>7th Control Unit | --  |         |
| 4.8             | Ability to Withstand Impact               | 4.8                                   | IS 6685   | R   | One                      | Every<br>7th Control Unit | --  |         |
| 4.9             | Freedom from Defects                      | 4.9                                   | IS 6685   | R   | Each Jacket              | Each Jacket               |   |         |
| 4.10            | Ease of Extraction from Water             | 4.10<br>Annex-B                       | IS 6685   | R   | One                      | Every<br>7th Control Unit | --  |         |
| 4.11            | --  | 4.11                                  | IS 6685   | R   | Each Jacket              | Each Jacket               |   |         |
| <b>5</b>        | <b>SIZES</b>                              |                                       |           |   |                          |                           |   |         |
| 5.1, 5.2        | --  | 5.1, 5.2                              | IS 6685   | R   | Each Jacket              | Each Jacket               | --  |         |
| 5.3             | Test for children life jackets            | 5.3<br>Annex-C                        | IS 6685   | R   | Six                      | Every<br>Control Unit     | --  |         |
| 6               | Buoyancy                                  | 6.1 to 6.3<br>Annex-D                 | IS 6685   | R   | One                      | Every<br>7th Control Unit | --  |         |
| 6.4, E-1 to E-9 | Tests for Inflatable life jackets         | 6.4(a), 6.4(b),<br>6.4 (c)<br>Annex E | IS 6685   | R   | One                      | Every<br>7th Control Unit | Please see Note 1 for checking of conformity of materials as per E-4, E-8 |         |
| 7               | Distribution of Buoyancy                  | 7<br>Annex-A-3                        | IS 6685   | R   | One                      | Every<br>7th Control Unit | --  |         |

| <b>8 BUOYANT MATERIALS</b>                    |  |                |                               |   |                    |                        |
|---|--|----------------|-------------------------------|---|--------------------|------------------------|
| 8.1   | Unicellular Plastics                           | 8.1 Annex-F    | IS 6685                       | S | Eight Specimen One | Each Consignment       |
| 8.2   | Kapok  | 8.2            | IS 6685<br>IS 3040            | S | One                | Please see Note 1      |
| 8.3   | Cork   | 8.3            | IS 6685                       | S | One                |                        |
| <b>9 PROTECTION OF BUOYANT MATERIALS</b>      |  |                |                               |   |                    |                        |
| 9.1 (a)                                       | Unicellular Plastics                           | 9.1(a)         | IS 6685                       | R | One                | Every 7th Control Unit |
| 9.1(b)  | --   | 9.1(b) Annex-G | IS 6685                       | S | One                | Each Consignment       |
| 9.2   | Kapok  | 9.2, 10.1      | IS 6685<br>IS 2076            | S | One                | Each Consignment       |
| 9.3   | Cork   | 9.3, 10.1      | IS 6685                       | S | One                | Each Consignment       |
| <b>10 OUTER COVERING FOR BUOYANT MATERIAL</b> |  |                |                               |   |                    |                        |
| 10.1  | Where Buoyant Material Accommodated in Pockets | 10.1           | IS 6685<br>IS 1422<br>IS 1969 | S | One                | Each Consignment       |
| 10.2  | --   | 10.2 Annex-G   | IS 6685                       | S | One                | Please see Note 1      |
| 11.1,   | Visibility                                     | 11.1           | IS 6685<br>IS 5               | S | One                | Each Consignment       |
| 11.2  | Colour fastness                                | 11.2           | IS 6685<br>IS 2454<br>IS 690  | S | One                | Please see Note 1      |
| 12  | Audibility                                     | 12             | IS 6685                       | R | Each Piece         | --                     |
| 13  | Webbing, Tapes and Cords                       | 13             | IS 6685<br>IS 1969<br>IS 3255 | S | One                | Each Consignment       |
| 14.1  | Sewing   | 14.1           | IS 6685<br>IS 1720            | R | One                | Each Consignment       |
| 14.2  | --   | 14.2 Annex-H   | IS 6685                       | R | One                | Each Consignment       |
| 14.2.1  | --   | 14.2.1         | IS 6685                       | R | Each Control Unit  | --                     |
| 15  | Fastenings                                     | 15.1, 15.2     | IS 6685                       | R | Each Jacket        | --                     |
|   |  |                |                               |   | Each Jacket        | --                     |

|    |   |                      |         |   |     |                        |    |
|----|---|----------------------|---------|---|-----|------------------------|----|
| 16 | Strength of Neck Opening and Fastening Device | 16 Annex-J           | IS 6685 | R | One | Each Control Unit      | -- |
| 17 | Strength Test                                 | 17                   | IS 6685 | R | One | Each Control Unit      | -- |
| 18 | Temperature Cycling Test                      | 3.6, 3.7, 18         | IS 6685 | S | One | Every six month        | -- |
| 19 | Test for Oil Resistance                       | 19 Annex- F Annex- K | IS 6685 | S | One | Every six month        | -- |
| 20 | Fire Test                                     | 20                   | IS 6685 | R | One | Every 7th Control Unit | -- |
| 25 | Life Jacket Lights                            | 25                   | IS 6685 | S | One | Each Consignment       | -- |

Note- 1: In case the consignment is received with a Test Certificate showing compliance to the specification no further testing is necessary.

Note-2: Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empanelled by the Bureau.

Note-3: The control unit and levels of control as decided by the Bureau are obligatory, to which the licensee shall comply with.

**ANNEX D****Possible Tests in a day**

| <b>S. No.</b> | <b>Test</b>  |
|---------------|--|
| 1.            | Ease of Donning, Cl. 4.3                               |
| 2.            | Ability to withstand Impact, Cl. 4.8                   |
| 3.            | Freedom from Defects, Cl. 4.9                          |
| 4.            | Ease of Extraction from Water, Cl. 4.10                |
| 5.            | Buoyancy, Cl. 6  |
| 6.            | Distribution of Buoyancy, Cl, 7                        |
| 7.            | Audibility, Cl.12                                      |
| 8.            | Sewing, Cl. 14   |
| 9.            | Fastenings, Cl. 15                                     |
| 10.           | Strength of Neck Opening and Fastening Devices, Cl. 16 |
| 11.           | Strength Test, Cl 17                                   |
| 12.           | Fire Test, Cl. 19                                      |

**ANNEX E****Scope of Licence**

|   |                             |
|---|-----------------------------|
| “Licence is granted to use Standard Mark as per IS 6685: 2009 with the following scope: |                             |
| Name of the product   | Life Jackets                |
| Type  | Adult size, Child size      |
| Buoyant Material  |                             |
| Inflatable Characteristics  | Inflatable/ Non- inflatable |
| Type of Light   |                             |
| Colour  |                             |