

**TECHNICAL EVALUATION PERFORMA – LIFE JACKETS**

Ser	Nomenclature	Specification	M/s Pak Business	M/s Excel Tex Industries	M/s Zeb & Company	M/s Hussain Enterprises	M/s Bilal & Sons	M/s Shabir & Sons	M/s ASM International
1.	Description	The sample of life jacket is available for reference at NDMA Warehouse. Each firm must see the sample at NDMA Warehouse before submitting their offer for NDMA life jackets.							
2.	Design	<ul style="list-style-type: none"> <li>The vest should be designed so that it can be worn from back side to front, like any jacket.</li> <li>Life jacket should comprise of 3 x separate buoyancy sheets (in three levels), to make the jackets comfortable and secure fit, while allowing freedom of movements. This ease of movement is essentially required during usage.</li> <li>Ensure provision of long straps and braided nylon cords running from complete back till front.</li> <li>Life jackets must comply to 150-200 buoyancy with 3 straps fixing.</li> <li>The life jackets would have steel whistle and handy small light.</li> <li>"NDMA" in words must be printed on front left side and back along with NDMA Logo.</li> </ul>	Non Compliance	Non Compliance	Compliance	Non Compliance	Absent / Non Compliance	Compliance	Non Compliance
3.	Material	<ul style="list-style-type: none"> <li>OUTER COVER- The fabric should be tough and strong to cater for abrasion and impact during use. The fabric should also lightly be rubberized on the inside for additional strength.</li> <li>BUOYANT MATERIAL- The buoyant material should be a rubber-plastic composite closed cell-foam specially developed for floatation vest. The softness of foam is required to provide comfort.</li> <li>The foam should be highly impact resistant and very light in weight</li> <li>Extremely low-density foam (0.04 – 0.06) to make the vest ultra- light for its bulk.</li> </ul>							
4.	Size & measurement	<ul style="list-style-type: none"> <li>Type - EVA Foam / EPDM</li> <li>Inner Material - Polyester coating</li> <li>Size of jacket- 40– 45 " (Adult) 75 % 25–30" (Minor) 25 %</li> <li>Weight carrying -130 kgs (minimum)</li> <li>Straps - 3 x with good quality / strong buckles (Black)</li> <li>Colour - Orange with NDMA" Logo.</li> </ul>							

Ser	Nomenclature	Specification	M/s Pak Business	M/s Excel Tex Industries	M/s Zeb & Company	M/s Hussain Enterprises	M/s Bilal & Sons	M/s Shabir & Sons	M/s ASM International
		<ul style="list-style-type: none"> <li>Qualities- lightweight/Unsinkable</li> <li>The life jacket must have 150-200 buoyancy.</li> <li>The life jacket must have steel whistle.</li> <li>The life jacket must have reflecting strips tapes on the back &amp; front side.</li> <li>The fabric should be tough and strong to cater for abrasion and impact during use.</li> <li>The fabric should also light rubberize on the inside for additional strength.</li> </ul> <p>The buoyant material should be a rubber-plastic composite closed cell-foam specially developed for floatation vest.</p>							
5.	Lab test	<ul style="list-style-type: none"> <li>150-200 buoyancy</li> <li>Buoyant Material-should be a rubber plastic composite closed cell -foam specially develop for floatation</li> <li>Type-EVA Foam/EPDM</li> <li>Inner Material -Polyester coating</li> <li>Fabric -Rubberize on the inside for additional strength</li> <li>Weight Carrying capacity 130 kg (minimum)</li> <li>Outer Cover should be able to cater for abrasion and impact during use</li> <li>Extreme low-density foam (.04-.06) to make the vest</li> </ul>	Non Compliance	Non Compliance	Compliance	Non Compliance	Absent / Non Compliance	Compliance	Non Compliance
6.	Packing and Weight	Life Jackets are to be packed in Cartons, each carton of 5-Ply, containing 10 Life Jackets. Each Jacket is to be first packed in separate polythene cover to avoid dirt and moisture, each polythene bag to be sealed by heat. Then the master bundle of 10 Life Jackets should be covered with polypropylene sheet before placing in carton.							
7.	Expected Life Span	Since the NDMA life jackets are used in flood emergency and are not operative during normal circumstances. Therefore, the life jackets shall have life span of 5 year minimum while used and 7 years, under normal storage conditions.							
8.	Manufacturing / Supplier Marking	Every life jacket shall include a tag, printed in inner fold of jacket with size of 3 x 3 inches, with the manufacturer identification. The tag should include the manufacturer's name, unique reference batch number and date of manufacturing. No company log should be included with manufacture's marking.							

Ser	Nomenclature	Specification	M/s Pak Business	M/s Excel Tex Industries	M/s Zeb & Company	M/s Hussain Enterprises	M/s Bilal & Sons	M/s Shabir & Sons	M/s ASM International
9.	NDMA Colour/ Logo	Logo of "NDMA" in fluorescent colour of size 20 x 20 centimeters dia on both sides to be printed / pasted at the front and back of jacket. Similarly, NDMA logo of 20 x 20 cm to be printed at Centre of each 5 Ply carton.							
10.	Pre- Delivery Inspection	Vendor will offer pre-delivery inspection at firms' premises during production. NDMA inspection team will conduct inspection of random samples at the premises of manufacturer. Thereafter, vendor will carry out bulk manufacturing and inform inspection team for final go head on dispatch of life jackets to the required NDMA destinations. The inspecting officer may collect random sample and send to designated laboratory of NDMA if required. The blankets shall be only dispatched, if accepted by inspection officers.	Non Compliance	Non Compliance	Compliance	Non Compliance	Absent / Non Compliance	Compliance	Non Compliance
11.	Delivery/ Dispatches of Life Jackets	The jackets shall be delivered at the cost of vendor to the designated destination in coordination with Logistics Dte of NDMA. Delivery schedule to be shared with NDMA. All allied charges on account of loading and unloading shall bear by vendor at any destination of NDMA. However, any change in destination to be mutually agreed by vendor and NDMA and shall be timely intimated to vendor for onwards transportation arrangement.							
Compliance			Non Compliance	Non Compliance	Compliance	Non Compliance	Absent / Non Compliance	Compliance	Non Compliance

**TECHNICAL EVALUATION PERFORMANCE – LIFE JACKETS**

Ser	Nomenclature	Specification	M/s Bataan Group of Services	M/s FTS International	M/s Haroon & Sons	M/s Pak Rose Enterprises	M/s Samad Rubber Works	M/s Haantiks Traders
1.	<b>Description</b>	The sample of life jacket is available for reference at NDMA Warehouse. Each firm must see the sample at NDMA Warehouse before submitting their offer for NDMA life jackets.						
2.	<b>Design</b>	<ul style="list-style-type: none"> <li>The vest should be designed so that it can be worn from back side to front, like any jacket.</li> <li>Life jacket should comprise of 3 x separate buoyancy sheets (in three levels), to make the jackets comfortable and secure fit, while allowing freedom of movements. This ease of movement is essentially required during usage.</li> <li>Ensure provision of long straps and braided nylon cords running from complete back till front.</li> <li>Life jackets must comply to 150-200 buoyancy with 3 straps fixing.</li> <li>The life jackets would have steel whistle and handy small light.</li> <li>"NDMA" in words must be printed on front left side and back along with NDMA Logo.</li> </ul>						
3.	<b>Material</b>	<ul style="list-style-type: none"> <li>OUTER COVER- The fabric should be tough and strong to cater for abrasion and impact during use. The fabric should also lightly be rubberized on the inside for additional strength.</li> <li>BUOYANT MATERIAL- The buoyant material should be a rubber-plastic composite closed cell-foam specially developed for floatation vest. The softness of foam is required to provide comfort.</li> <li>The foam should be highly impact resistant and very light in weight</li> <li>Extremely low-density foam (0.04 – 0.06) to make the vest ultra- light for its bulk.</li> </ul>	Absent / Non Compliance	Compliance	Compliance	Compliance	Non Compliance	Non Compliance
4.	<b>Size &amp; measurement</b>	<ul style="list-style-type: none"> <li>Type - EVA Foam / EPDM</li> <li>Inner Material - Polyester coating</li> <li>Size of jacket- 40– 45 " (Adult) 75 % 25–30" (Minor) 25 %</li> <li>Weight carrying -130 kgs (minimum)</li> <li>Straps - 3 x with good quality / strong buckles (Black)</li> <li>Colour - Orange with NDMA" Logo.</li> <li>Qualities- lightweight/Unsinkable</li> <li>The life jacket must have 150-200 buoyancy.</li> <li>The life jacket must have steel whistle.</li> <li>The life jacket must have reflecting strips tapes on the back &amp; front side.</li> <li>The fabric should be tough and strong to cater for abrasion and impact during use.</li> <li>The fabric should also light rubberize on the inside for additional strength.</li> <li>The buoyant material should be a rubber-plastic composite closed cell-foam specially developed for floatation vest.</li> </ul>						

Ser	Nomenclature	Specification	M/s Bataan Group of Services	M/s FTS International	M/s Haroon & Sons	M/s Pak Rose Enterprises	M/s Samad Rubber Works	M/s Haantiks Traders						
5.	Lab test	<ul style="list-style-type: none"> <li>▪ 150-200 buoyancy</li> <li>▪ Buoyant Material-should be a rubber plastic composite closed cell -foam specially develop for floatation</li> <li>▪ Type-EVA Foam/EPDM</li> <li>▪ Inner Material -Polyester coating</li> <li>▪ Fabric -Rubberize on the inside for additional strength</li> <li>▪ Weight Carrying capacity 130 kg (minimum)</li> <li>▪ Outer Cover should be able to cater for abrasion and impact during use</li> <li>▪ Extreme low-density foam (.04-.06) to make the vest</li> </ul>	Absent / Non Compliance	Compliance	Compliance	Compliance	Non Compliance	Non Compliance						
6.	Packing and Weight	Life Jackets are to be packed in Cartons, each carton of 5-Ply, containing 10 Life Jackets. Each Jacket is to be first packed in separate polythene cover to avoid dirt and moisture, each polythene bag to be sealed by heat. Then the master bundle of 10 Life Jackets should be covered with polypropylene sheet before placing in carton.												
7.	Expected Life Span	Since the NDMA life jackets are used in flood emergency and are not operative during normal circumstances. Therefore, the life jackets shall have life span of 5 year minimum while used and 7 years, under normal storage conditions.												
8.	Manufacturing / Supplier Marking	Every life jacket shall include a tag, printed in inner fold of jacket with size of 3 x 3 inches, with the manufacturer identification. The tag should include the manufacturer's name, unique reference batch number and date of manufacturing. No company log should be included with manufacture's marking.												
9.	NDMA Colour/ Logo	Logo of "NDMA" in fluorescent colour of size 20 x 20 centimeters dia on both sides to be printed / pasted at the front and back of jacket. Similarly, NDMA logo of 20 x 20 cm to be printed at Centre of each 5 Ply carton.												
10.	Pre- Delivery Inspection	Vendor will offer pre-delivery inspection at firms' premises during production. NDMA inspection team will conduct inspection of random samples at the premises of manufacturer. Thereafter, vendor will carry out bulk manufacturing and inform inspection team for final go head on dispatch of life jackets to the required NDMA destinations. The inspecting officer may collect random sample and send to designated laboratory of NDMA if required. The blankets shall be only dispatched, if accepted by inspection officers.												
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**TECHNICAL EVALUATION PERFORMANCE – LIFE JACKETS**

Ser	Nomenclature	Specification	M/s Tradeline Corporation	M/s Mahroz Textiles	M/s Expert Global	M/s Active Vision	M/s Turab Construction	M/s Majid Traders
1.	<b>Description</b>	The sample of life jacket is available for reference at NDMA Warehouse. Each firm must see the sample at NDMA Warehouse before submitting their offer for NDMA life jackets.						
2.	<b>Design</b>	<ul style="list-style-type: none"> <li>• The vest should be designed so that it can be worn from back side to front, like any jacket.</li> <li>• Life jacket should comprise of 3 x separate buoyancy sheets (in three levels), to make the jackets comfortable and secure fit, while allowing freedom of movements. This ease of movement is essentially required during usage.</li> <li>• Ensure provision of long straps and braided nylon cords running from complete back till front.</li> <li>• Life jackets must comply to 150-200 buoyancy with 3 straps fixing.</li> <li>• The life jackets would have steel whistle and handy small light.</li> <li>• "NDMA" in words must be printed on front left side and back along with NDMA Logo.</li> </ul>						
3.	<b>Material</b>	<ul style="list-style-type: none"> <li>• OUTER COVER- The fabric should be tough and strong to cater for abrasion and impact during use. The fabric should also lightly be rubberized on the inside for additional strength.</li> <li>• BUOYANT MATERIAL- The buoyant material should be a rubber-plastic composite closed cell-foam specially developed for floatation vest. The softness of foam is required to provide comfort.</li> <li>• The foam should be highly impact resistant and very light in weight</li> <li>• Extremely low-density foam (0.04 – 0.06) to make the vest ultra- light for its bulk.</li> </ul>	Compliance	Non Compliance	Absent / Non Compliance	Compliance	Absent / Non Compliance	Absent / Non Compliance
4.	<b>Size &amp; measurement</b>	<ul style="list-style-type: none"> <li>• Type - EVA Foam / EPDM</li> <li>• Inner Material - Polyester coating</li> <li>• Size of jacket- 40– 45 " (Adult) 75 % 25–30" (Minor) 25 %</li> <li>• Weight carrying -130 kgs (minimum)</li> <li>• Straps - 3 x with good quality / strong buckles (Black)</li> <li>• Colour - Orange with NDMA" Logo.</li> <li>• Qualities- lightweight/Unsinkable</li> <li>• The life jacket must have 150-200 buoyancy.</li> <li>• The life jacket must have steel whistle.</li> <li>• The life jacket must have reflecting strips tapes on the back &amp; front side.</li> <li>• The fabric should be tough and strong to cater for</li> </ul>						

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		<p>abrasion and impact during use.</p> <ul style="list-style-type: none"> <li>The fabric should also light rubberize on the inside for additional strength.</li> <li>The buoyant material should be a rubber-plastic composite closed cell-foam specially developed for floatation vest.</li> </ul>	Compliance	Non Compliance	Absent / Non Compliance	Compliance	Absent / Non Compliance	Absent / Non Compliance
5.	Lab test	<ul style="list-style-type: none"> <li>150-200 buoyancy</li> <li>Buoyant Material-should be a rubber plastic composite closed cell -foam specially develop for floatation</li> <li>Type-EVA Foam/EPDM</li> <li>Inner Material -Polyester coating</li> <li>Fabric -Rubberize on the inside for additional strength</li> <li>Weight Carrying capacity 130 kg (minimum)</li> <li>Outer Cover should be able to cater for abrasion and impact during use</li> </ul> <p>Extreme low-density foam (.04-.06) to make the vest</p>						
6.	Packing and Weight	Life Jackets are to be packed in Cartons, each carton of 5-Ply, containing 10 Life Jackets. Each Jacket is to be first packed in separate polythene cover to avoid dirt and moisture, each polythene bag to be sealed by heat. Then the master bundle of 10 Life Jackets should be covered with polypropylene sheet before placing in carton.						
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10.	Pre- Delivery Inspection	Vendor will offer pre-delivery inspection at firms' premises during production. NDMA inspection team will conduct inspection of random samples at the premises of manufacturer. Thereafter, vendor will carry out bulk manufacturing and inform inspection team for final go head on dispatch of life jackets to the required NDMA destinations. The inspecting officer may collect random sample and send to designated laboratory of NDMA if required. The blankets shall be only dispatched, if accepted by inspection officers.						



# ARMY STORES INSPECTION DEPOT LAHORE



## LAB TEST REPORT

Nomenclature	Life Jacket	Ref: No. 4219/ LAB/LID/	
F/Note No.	F.3(8)/2024-25/NDMA(Proc)		
Nature of Sample	Outer Agency	Temp= 21°C	Humidity= 65%
Lab No.	-	Specn	As per Att Data
Date Receipt	28 Feb 2025	Date of Reporting	25 Apr 2025
No of Sample	12		
Client Name:	NDMA Islamabad		

SER	DESCRIPTION	RESULTS					
		B	D	E	F	G	J
1	Buoyancy test	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory
2	No of Buoyancy sheet	3x separate bouyancy sheet	3x separate bouyancy sheet	3x separate bouyancy sheet	3x separate bouyancy sheet	3x separate bouyancy sheet	3x separate bouyancy sheet
3	Material of Foam	Polvethylene	Polvethylene	EVA	Polvethylene	EVA	EVA
4	Inner Material	Polyester with coating	Polyester with coating	Polyester with coating	Polyester with coating	Polyester with coating	Polyester with coating
5	Inner Rubberizing	PVC	PVC	PVC	PVC	PVC	Other than PVC
6	Abrasion resistance	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory
7	Weight Carrying Capacity	130 kg	130 kg	130 kg	130 kg	130 kg	130 kg
8	Sinking Time (48 hrs)	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory
9	Straps and Buckle	3x straps with 3x buckle of good quality	3x straps with 3x buckle of good quality	3x straps with 3x buckle of good quality	3x straps with 3x buckle of good quality	3x straps with 3x buckle of good quality	3x straps with 3x buckle of good quality
10	Density of foam	0.023	0.028	0.095	0.028	0.077	0.085
11	Color	Orange with NDMA logo	Orange with NDMA logo	Orange with NDMA logo	Orange with NDMA logo	Orange with NDMA logo	Orange with NDMA logo
		N	O	P	Q	X	Y
1	Buoyancy test	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory
2	No of Buoyancy sheet	3x separate bouyancy sheet	3x separate bouyancy sheet	3x separate bouyancy sheet	3x separate bouyancy sheet	3x separate bouyancy sheet	3x separate bouyancy sheet
3	Material of Foam	EVA	Polvethylene	EVA	Polvethylene	EVA	EVA
4	Inner Material	Polyester with coating	Polyester with coating	Polyester with coating	Polyester with coating	Polyester with coating	Polyester with coating
5	Inner Rubberizing	PVC	PVC	PVC	PVC	PVC	PVC
6	Abrasion resistance	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory
7	Weight Carrying Capacity	130 kg	130 kg	130 kg	130 kg	130 kg	130 kg
8	Sinking Time (48 hrs)	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory
9	Straps and Buckle	3x straps with 3x buckle of good quality	3x straps with 3x buckle of good quality	3x straps with 3x buckle of good quality	3x straps with 3x buckle of good quality	3x straps with 3x buckle of good quality	3x straps with 3x buckle of good quality
10	Density of foam	0.07	0.02	0.09	0.02	0.093	0.092
11	Color	Orange with NDMA logo	Orange with NDMA logo	Orange with NDMA logo	Orange with NDMA logo	Orange with NDMA logo	Orange with NDMA logo

*Pak BOSC Enterprises*     *Mahroz textiles*     *Active Vision*     *Hanrik traders*     *Zeb & Co*     *Trade line*  
 RA-I     RA-I  
 Checked by (Naeem Nasir)     I/C Lab (Imran Maqbool)



# ARMY STORES INSPECTION DEPOT LAHORE



## PAYMENT VOUCHER

Nomenclature	Life Jacket	Ref: No. 4219/ LAB/LID/	
F/Note No.	F.3(8)/2024-25/NDMA(Proc)		
Nature of Sample	Outer Agency	Temp= 21°C	Humidity= 65%
Lab No.	-	Specn	As per Att Data
Date Receipt	28 Feb 2025	Date of Reporting	22 Apr 2025
No of Sample	12		
Client Name:	NDMA Islamabad		

Test Required	No of Samples	Rate	Amount
Buoyancy test	12	3495.00	41940.00
No of Buoyancy sheet	12	640.00	7680.00
Material of Foam	12	1900.00	22800.00
Inner Material	12	640.00	7680.00
Inner Rubberizing	12	1900.00	22800.00
Abrasion resistance	12	2530.00	30360.00
Weight Carrying Capacity	12	640.00	7680.00
Sinking Time (48 hrs)	12	3450.00	41400.00
Straps and Buckle	12	640.00	7680.00
Density of foam	12	1265.00	15180.00
Color	12	640.00	7680.00
	<b>TOTAL</b>	<b>17740.00</b>	<b>212880.00</b>

Amount payable in words: **(RUPEE TWO LAC TWELVE THOUSAND EIGHT HUNDRED AND EIGHTY ONLY)**

RA-I  
I/C Lab  
(Imran Maqbool)

### FOR USE IN ADM (FIN) ONLY

Received Payment Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_)

By Cash / Cheque No. \_\_\_\_\_ Dated \_\_\_\_\_ Drawn on \_\_\_\_\_

#### Distribution:

1. Agency Concerned
2. Cashier / Fin Sec