TECHNICAL SPECIFICATION OF FLOATING BR

Ser	Description	Technical Specification	Remarks
1.	Name of the Equipment	**Floating Bridge**	
2.	Name and Complete Address of Local Agent	To be mentioned	
3.	Name and Complete Address of Manufacturer		
4.	Name and Complete Address of Principal		
5.	Type of Bridge		
6.	Make & Model		
7.	Country of Origin	Group A Country	
8.	Country of Assembly		
9.	Country of Manufacturer		
10.	Year of Production	Not before the Year of Contract	
11.	**Floating Bridge**		
	a. Type of floating Bridge (t)	To be mentioned	
	b. **Interior Bays**		
	(1) Length	To be mentioned	
	(2) Width		
	(3) Self Weight		
	(4) Maximum Load Carrying Capacity		
	(5) Method of Cruising of the Bay in Water	Must have self-cruising capability	
	(6) Cruising Speed of the Bay in Water	To be mentioned	
	c. **Ramp Bays**		
	(1) Length	To be mentioned	
	(2) Width		
	(3) Self Weight		
	(4) Maximum Load Carrying Capacity		
	(5) Method of Cruising of the Ramp Bay in Water	Must have self-cruising capability	
	(6) Cruising Speed of the Ramp Bay in Water	To be mentioned	
	d. **Maximum Wheel Load (t)**		
	(1) For Single Lane	To be mentioned	
	(2) For Double Lane:	To be mentioned	
	e. Minimum Tracked Load (t)	For Single Lane : Minimum MLC 20 For Double Lane: Minimum MLC 50	
	f. Axle Load (t)	To be mentioned	
	g. Roadway width	For Single Lane : Minimum 3.2 m For Double Lane: Minimum 6.5 m	
	h. Maximum length of bridge (according to load classification)	For Single Lane: To be mentioned For Double Lane: To be mentioned	
	j. Maximum width of the bridge		
	k. Personnel required for erection (as per type of bridge)		
	l. Time required for erection (as per type of bridge) in min		
	m. Allowable current velocity		
	n. Allowable slope of the bank		
	p. Draft (with maximum load)		

Ser	Description	Technical Specification	Remarks
	q. **Total Number of Bays required for 100m floating Bridge (according to load classification and as per type of Bridge)**		
	(1) Total Number of Interior Bays are Required for Bridging	For Single Lane: To be mentioned For Double Lane: To be mentioned	
	(2) Total Number of Ramp Bays are Required for Landing		
	(3) Total Number of Additional Ramp Bays are Required for Complete 100m Bridge Set		
	(4) Total Number of Truck/ Vehicle/Transporter Require		
	r. **Anchor System of the Floating Bridge**	Details to be mentioned	
12.	**Raft Assembly**		
	a. **Carrying capacity (t)**		
	(1) Minimum	Minimum MLC 50	
	(2) Maximum	To be mentioned	
	b. Type of Raft can be Assembled from 100m Floating Bridge length (As per prescribed carrying capacity)	To be mentioned	
	c. **No of Bays Required for Raft (According to the type of Raft as per Length and Minimum MLC 50)**		
	(1) Interior Bay	To be mentioned	
	(2) Ramp Bay		
	d. Number of Ramp Bays Required for Operating Two Rafts at a time from 100m Set	To be mentioned	
	e. **Personnel required for assembling (as per type)**		
	(1) Men	To be mentioned	
	(2) Pilot		
	f. **Anchor System of the Raft**	Details to be mentioned	
	g. Time required (as per type) in min		
13.	**Out Board Motor (OBM)**		
	a. Make & Model	To be mentioned	
	b. Country of Origin,	Group A Countries	
	c. Country of Manufacture		
	d. Country of Assembly		
	e. Engine Rated Horse Power with Rpm	To be mentioned	
	f. Bore and Stroke		
	g. Displacement (cc)		
	h. Type of Fuel		
	j. Number of OBM provide per Interior & Ramp Bay	To be mentioned	
	k. Starting		
	l. Engine Test bench Report	During Pre-shipment Inspection Engine Test Bench Report (for each model) which was prepared by manufacturer during production of engine at factory premises must be produced and submitted to the PSI team (duly signed and stamped by the manufacturer). Other engines (mentioning engine number) of the same model must be certified confirming the engine Test Bench Report by the manufacturer (duly singed and stamped).	

Ser	Description	Technical Specification	Remarks
14.	**Motor Boat (When Applicable)**		
	a. Make & Model	To be mentioned	
	b. Country of Origin,	Group A Countries	
	c. Country of Manufacturer		
	d. Country of Assembly		
	e. Number of Motor Boat	To be mentioned	
	f. Capacity of Boat		
	g. **Dimension**		
	(1) Length	To be mentioned	
	(2) Width		
	(3) Height		
	h. No of motor boat vehicle/ transporter	To be mentioned	
	j. Loading and unloading of boat from vehicle/Transporter	Details to be mentioned	
	k. Draught	To be mentioned	
	l. Cruising range		
	m. Material of Boat		
	n. **Engine**		
	(1) Make & Model	To be mentioned	
	(2) Country of origin, manufacture and assembly	Group A Countries	
	(3) No of cylinder	To be mentioned	
	(4) Displacement		
	(5) Max Torque with rpm		
	(6) Max hp with RPM		
	(7) Cooling system	Liquid cooled	
	(8) Dore & stroke	To be mentioned	
	(9) Starting		
	(10) Fuel system		
	(11) Engine Test bench Report	During Pre-shipment Inspection Engine Test Bench Report (for each model) which was prepared by manufacturer during production of engine at factory premises must be produced and submitted to the PSI team (duly signed and stamped by the manufacturer). Other engines (mentioning engine number) of the same model must be certified confirming the engine Test Bench Report by the manufacturer (duly singed and stamped).	
15.	**Truck**		
	a. Make and Model	To be mentioned	
	b. Country of Origin	Group A Countries	
	c. Country of Assembly		
	d. Country of Manufacturer		
	e. Year of Production	Not before the year of contract	
	f. Drive	Right Hand Drive (RHD)	
	g. **Overall Dimension**		
	(1) Length	To be mentioned	
	(2) Width		
	(3) Height		
	h. Wheel Base		
	j. Wheel Tread (Front & Rear)		
	k. Configuration		
	l. Gross vehicle weight		
	m. Kerb weight of Truck		
	n. Pay Load of Truck		
	p. **Axle**		
	(1) No of Axle	To be mentioned	
	(2) Type and capacity of axles		

Ser	Description	Technical Specification	Remarks
	q. Gradiability with full load	Minimum 15^0	
	r. Fording depth	Min 600 mm	
	s. Ground Clearance	Minimum 275 mm	
	t. Turning radius	Maximum 13m	
	u. Angle of approach	Minimum 15^0	
	v. Angle of departure	Minimum 15^0	
	w. <u>Engine</u>		
	(1) Make and Model	To be mentioned	
	(2) Type		
	(3) Country of Origin	Group A Country	
	(4) Country of manufacturer		
	(5) Country of Assembly		
	(6) Year of Production	Not before the year of contract	
	(7) Horse Power with rpm	Minimum 250 Horse Power @ rpm to be mentioned	
	(8) Torque with rpm	To be mentioned	
	(9) No of cylinder		
	(10) Bore and stroke		
	(11) Cooling system	Water Cooled	
	(12) Type of Fuel	Diesel	
	(13) Displacement	To be mentioned	
	(14) Fuel consumption		
	(15) Engine test bench Report	During Pre-shipment Inspection Engine Test Bench Report (for each model) which was prepared by manufacturer during production of engine at factory premises must be produced and submitted to the PSI team (duly signed and stamped by the manufacturer). Other engines (mentioning engine number) of the same model must be certified confirming the engine Test Bench Report by the manufacturer (duly singed and stamped).	
	x. Fuel tank capacity	Minimum 200 liters	
	y. Suspension of Truck	To be mentioned	
	z. **<u>Transmission</u>**		
	(1) Type	To be mentioned	
	(2) Country of Origin	Group A Countries	
	(3) Country of manufacturer		
	(4) Country of Assembly		
	(5) No of gear	To be mentioned	
	(6) Gear ratio		
	aa. **<u>Wheel & Tyre</u>**		
	(1) Number of Tyre	To be mentioned	
	(2) Size of Tyre		
	(3) No of Spare Tyre	Should be as per the ratio of total no of Tyres	
	(4) Tyre Brand	Bridgestone/Dunlop/Goodyear/ Yokohama/Toyo/Uniroyal/Continental/ Michelin/Folda/Firestone/Armstrong/ AMTEL/ Pirelli/ Hankook/ Kumho	
	(5) Tyre Country of Origin	USA, Japan, EU Countries, Russia, Brazil, Indonesia, Malaysia, Philippines, Singapore, Thailand and South Korea	
	(6) Tyre type/pattern design	Non-directional, Ground Grip/Cross country (ND, GG/CC).	
	(7) Rim size	To be mentioned	
	bb. **<u>Brake System</u>**		
	(1) Service brake	Details to be mentioned	
	(2) Auxiliary brake		
	(3) Parking brake		
	cc. Steering	Power Steering	

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Ser	Description	Technical Specification	Remarks
	dd. **Electric System**		
	(1) Voltage	24 Volt	
	(2) Battery (Volt & AH)	Volt & AH to be mentioned	
	(3) Alternator (Volt & Amp)	Volt & Amp to be mentioned	
	(4) Starter (Volt & Kw)	Volt & Kw to be mentioned	
	ee. Cabin	To be mentioned	
	ff. Lighting System	All lights & gauges include head light, Tail, Work, Blackout light & Backup light include hour meter and other related lights & gauges require to make the equipment fully operation	
	gg. **Blackout Light**		
	(1) 2x blackout head light	To be provided	
	(2) Blackout indicator light at front & rear		
	(3) Blackout stop light		
	(4) Blackout Convoy light		
	hh. **Protection Sys.**		
	1. **Self-Recovery Winch Mech.**		
	(a) Type of self-recovery	To be included	
	(b) Control mechanism		
	(c) Maximum operational length		
	2. Auto Fire Extinguishing and Suppression System		
16.	Colour	As per user reqr	
17.	**Ambien Condition**		
	a. Air temperature	-5^0 C to $+55^0$ C	
	b. River water temperature	-5^0 C to $+35^0$ C	
18.	Salinity (TDS)/Cathodic Protection of the Floating Bridge	Arrangement to be Provided to withstand the salinity.	
19.	All Equipment and Component of Main Vehicle, Floating (Ribbon/Pontoon) Bridge, Truck, Out Boat Motor/Motor Boat and Raft	a. Will be brand new b. Will be manufactured Maximum 01 year of contract. c. Manufacturers have to provide guarantee cert	
20.	**Floating Bridge (Ribbon/Pontoon Bridge) Accessories, Spares and Tools**		
	a. Floating Bridge spares, tools and accessories	List to be provided	
	b. Truck spares, tools and accessories		
	c. Out Boat Motor/Motor Boat spares, tools and accessories		
	d. Raft spares, tools and accessories		
21.	**Floating Bridge (Tools Box)**		
	a. Floating Bridge tools box	Integral and all essential tools to be fitted	
	b. Truck tools box		
	c. Out Boat Motor/Motor Boat tools box		
	d. Raft tools box		
22.	**Miscellanies (Misc)**		
	a. Floating Bridge onboard fitted items	Details list of all onboard default fitted items to be mentioned	
	b. Truck onboard fitted items		
	c. Out Boat Motor/Motor Boat onboard fitted items		
	d. Raft onboard fitted items		
	e. Loading and unloading of the Ramp bay and interior bay from vehicle		

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Ser	Description	Technical Specification	Remarks
23.	All components should be able to withstand minimum 98% humidity or above typical to Bangladesh weather	Manufacturers have to provide guarantee cert	
24.	All components i.e. panel boards, gauges, instruments etc marking and display reading should be in English language (To be confirmed by the manufacture)	Manufacturers have to provide guarantee cert	
25.	After sell service support/spare parts	Min 15 years, Manufacturers have to provide guarantee cert	
26.	Model validity	Min 10 years	
27.	ISO Certificate of Similar Rating	ISO Certificate to be provided by the Manufacturer	
28.	List of fast and slow moving spares	To be provided with the offer.	
29.	Tool list for different level of maintenance	To be provided with manufacturer's recommended tool list and detail maintenance schedule at different level	
30.	Authorize cert of principal in favor of local agent	To be provided	
31.	Authorize cert of manufacturer in favor of principal		
32.	Publications : Following publication book type in English to be provided		
	a. Owners/Operators manual and CD/DVD	As per requirement of EME Dte	
	b. Workshop/Repair manual and CD/DVD		
	c. 100% updated master spare parts catalogue and CD/DVD		
	d. Complete and updated master spare parts price list catalogue and CD/DVD		