

TECHNICAL SPECIFICATION OF STANDARD 80 FEET DOUBLE SINGLE BAILEY BRIDGE
(Approved in General Staff Policy Committee Meeting -1/2020)

Ser	Descriptions	Required Technical Specification	Must be filled up by the Principal/Manufacturer	Remarks
	<u>Part-1: General Specification</u>			
1.	Name of the Bridge	Standard 80 Feet Double Single Bailey Bridge		
2.	Name and Complete Address of Local Agent	To be mentioned		
3.	Name and Complete Address of Manufacturer	To be mentioned		
4.	Name and Complete Address of Principal	To be mentioned		
5.	Make and Model	To be mentioned		
6.	Country of Origin	Group B Country (Except China)		
7.	Country of Assembly			
8.	Country of Manufacturer			
9.	Year of Production	Not before the year of contract		
10.	General Description/Purpose	The modified Bailey equipments can be assembled quickly in different ways for various loads and spans of fixed or floating bridges. It is simple to erect and launch. All parts can be easily manhandled and all fit into 2.5-ton truck or 3-ton lorries. A bridge strong enough to take the vital transport and support weapons can be put across early in the assault and strengthened later in situ, if heavier loads are required		
	<u>Part-2: Technical Specification</u>			
11.	Material	Galvanized steel, Tensile strength (Psi) to be mentioned		
12.	<u>Material thickness</u>			
	a. Major structural element	Minimum 5mm		
	b. Deck component	Minimum 4 mm		
13.	Type of Decking Surface (Chaquered steel plate deck)	Details to be mentioned		
14.	Length of Main Bridge	Minimum 80 Feet without ramp		
15.	Type of Bridge	a. Bridges shall comprise longitudinal trusses formed of modular steel panels end to end with transverse girders spanning between them that support a single lane steel decked roadway b. The bridge should be of Double Single (DS) construction		
16.	Interchangeability	All bridge components shall be manufactured in such a manner that they are fully interchangeable with all other components of the same type		
17.	Manhandle ability	Individual bridge components shall be capable of being lifted and carried by hand using appropriate tools where necessary		
18.	Connections	All connections to be made on site, shall utilize pins or bolts that can be easily installed using simple hand tools		

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19.	Load Classification	Minimum 60 ton		
20.	Minimum Roadway Width	Minimum 13 feet		
21.	Roadway Components	Details to be mentioned		
22.	Number of Lane	Single Lane		
23.	Panel Dimension	Details to be mentioned		
24.	Installation	The bridges shall be capable of being installed by the method of cantilever launching across the gap to be bridged without the need for any temporary intermediate supports		
25.	Demount ability	All bridge constructed with the equipment shall be capable of being de-launched and dismantled for return to stock or site relocation as necessary		
26.	Truss Components	<p>a. The major truss components shall comprise prefabricated modular panels made of roller steel</p> <p>b. No more than two different types of modular panel shall be used to form the trusses of the bridge</p>		
27.	Minimum Clear Span	Minimum 80 feet		
28.	Adjustable Ramp	Minimum 2x adjustable ramps to allow access for all civilian and military vehicles on each end of the bridge including standard store and accessories. Similar load class as like bridge		
29.	Foot Walk	2 to 3 feet wide foot walk on one side of the bridge with standard provision of fixing		
30.	Footway Components	The footway decking shall comprise prefabricated modular steel units that span between adjacent bearers		
31.	Launching Nose	50 feet nose with standard store and accessories		
32.	Drawing and design of Standard 80 Feet Double Single Bailey Bridge	To be provided with the offer		
33.	Weather Protection	Details to be mentioned (include the thickness of protective materials)		
34.	Standard Tools and Accessories	All standard tools and accessories required to make the bridge fully operational to be provided (List must be submitted)		
35.	Additional stores (Reserve)	10% additional stores, equipments and tools required for main Bridge, nose and launching accessories to be provided		
36.	Steel quality and sample verification	Certificate shall be provided upon request as confirmation of the steel quality used for the fabrication of main structural elements. The client maintains the right, however, to take random samples from any equipment supplied and to have the samples independently tested for verification of material specification conformity		

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37.	Corrosion Protection	a. All bolts, screws and nuts shall be spun galvanized and certificate to be provided by the manufacturer b. All pins and clips shall be plated with protective metallic material and certificate to be provided by the manufacturer		
38.	Environmental Conditions			
	a. Temperatures	-5° C to +55° C		
	b. Wind Speeds	Minimum 45 meters per second		
39.	Colour	As per tender requirement		
40.	Maintenance	Details to be mentioned		
41.	ISO Certificate or Similar Rating	ISO Certificate to be provided by the manufacturer		
42.	Part-3. Training requirement.			
	a. User training (For Engineers)	To be provided (As per requirement of Engineer Directorate)		
	b. Operation, repair and maintenance training.	To be provided (As per requirement of Electrical and Mechanical Engineers Directorate)		
	c. Equipment Management Training (For Ordnance)	To be provided (As per requirement of Ordnance Directorate)		
43.	Part-4. Repair and maintenance requirement list of spares: Book & Publications. a. Owners/operators manual in English (book type) including CD/DVD. b. Workshop/repair manual in English (book type) including CD/DVD. c. 100% updated master spare parts catalogue in English (book type) including CD/DVD. d. Complete and updated master spare parts price catalogue/list in English (book type) including CD/DVD.	To be provided (As per requirement of Electrical and Mechanical Engineers Directorate).		
44.	Part-5. List of standard spares	List of standard spares to be provided		
45.	Part-6. Tools list for different level of maintenance: a. Analyzer, measuring & testing/fault finding and diagnostic set b. Special Service Tools (SST) c. Special Service Materials (SSM)	To be provided (As per requirement of Electrical and Mechanical Engineers Directorate)		
	Note: Following information's/documents to be submitted along with the offer:			
	a. Details of working principle			
	b. Functional/Users training in country to be provided by foreign/Local expert			
	c. Provision of supply of major spares for minimum 10 years			
	d. Provision of supply fast and slow moving spares for minimum 10 years			
	e. Model validity in years (minimum 10 years)			
	f. List of Spares, Special Service Tools (SST), Special Service Material (SSM)			
	g. Any other relevant technical information may also be enclosed			