Government of Nepal (GoN)
Ministry of Physical Infrastructure and Transport
Department of Roads
Bridge Branch,
Babarmahal, Kathmandu (Currently: Chakupat, Lalitpur)

Quotation for Modular/Bailey Bridge
Date of Publication: 4th November 2025

The **Government of Nepal (GoN)**, **Ministry of Physical Infrastructure and Transport**, **Department of Roads (DOR)**, **Bridge Branch**, Bridge Improvement and Maintenance Program (BIMP III) intends to procure **Modular Bridges** to be utilized for **emergency response** purposes, ensuring continuity of traffic movement without delay. Interested **manufacturers or suppliers** of modular/bailey bridges are hereby **requested to submit their quotations** (excluding Value Added Tax) along with the following documents:

- Company Registration Certificate
- Relevant authorized Product Catalogue and Technical Specifications

Quotations and supporting documents shall be submitted via email to: dorbridgebranch2@gmail.com. Further details, descriptions, and specific requirements of the modular bridges can be accessed from the official website of the Department of Roads: https://dor.gov.np. The Department reserves the right to accept or reject any or all quotations without assigning any reason whatsoever.
Deadline for submission: On or before 25th November **2025**, during official office hours.

For further information, please contact:
Department of Roads, Bridge Branch, BIMP III
Babarmahal, Kathmandu **(Currently: Chakupat, Lalitpur)**
Email: dorbridgebranch2@gmail.com

Technical Specification

<table>
<tr><th>S.N.</th><th>Items</th><th>Criteria</th><th>Technical Specifications</th><th>Manufacturer’s Specification</th></tr>
<tr><td>1.</td><td rowspan="5">Modular/ Bailey Bridge</td><td>General, Design</td><td>
i. Each bridge set and Ramp shall be designed for Indian Standard Load as per IRC 6 loading (Table 6: Live Load Combination) or equivalent loading.
ii. The total span length or width shall be as shown in table A below with a tolerance of +/- 5%.
iii. The number of modular/bailey Bridge shall be as follows:
Table A
<table>
<tr><th>Length/Span (m)</th><th>Clear carriageway width (m)</th><th>Required Tentative Numbers</th><th>Load Test Requirement</th></tr>
<tr><td>50</td><td>4.2</td><td>10</td><td>One set test</td></tr>
<tr><td>50</td><td>7.35</td><td>2</td><td>One set test</td></tr>
<tr><td>70</td><td>4.2</td><td>2</td><td>One set test</td></tr>
</table>
</td><td></td></tr>
<tr><td>3.</td><td>Structural members and Fasteners</td><td>
i. Panel chords, diagonals, verticals, rackers, reinforcing members shall conform to AASHTO M270 Gd. 65 or IS 8500 Fe 540B or equivalent standard.
ii. Decking, ranker brace, transom, transom brace, sway brace, diagonal brace etc. shall conform to M270 Gd. 50 or IS: 2062(Fe 410 WA) and 2062(Fe 410 WB) or equivalent standard.
iii. Panel Pins and bolts shall conform to ASTM A 193 Gd. B7 and AASHTO M164M-A325, respectively or appropriately equivalent Indian Road Congress (IRC) or Indian Standards (IS).
iv. Deck units of the bridge and Ramp shall be manufactured from anti-skid chequered plates or better arrangement/design for anti-skid and backside shall be stiffened with high tensile steel channels.
</td><td></td></tr>
<tr><td>4.</td><td>Surface finishing</td><td>
i. All major components to be hot dip galvanized according to AASHTO M111-ASTM A123, or appropriately equivalent Indian Road Congress (IRC) or Indian standards (IS), but not less than 610 gm/m2
ii. All bolts shall be hot dipped galvanized and the pins shall be electro galvanized.
</td><td></td></tr>
<tr><td>5.</td><td>Welding</td><td>
i. The structural components shall be shop welded generally as per relevant Indian standard Specifications (IS: 9595) or equivalent ASTM Standard.
</td><td></td></tr>
<tr><td>6.</td><td>Spare parts</td><td>
i. Additional 5% spares for bolts, nuts, washers, panel pins, safety clips etc. shall be included.
ii. One complete set of extra bearings shall be provided with each set of supplied bridge.
iii. A complete set of launching nose shall be supplied in accordance with the details provided in the quotation sheet
</td><td></td></tr>
</table>

			iv. The bridge components shall be supplied in such a manner that each bridge span, as specified in Table A, is capable of being divided into two independent bridge units. The cost of all additional components shall be deemed to be included in the quoted price; no separate payment shall be made.	
7.		Necessary Tools	i. Each set of Modular/Bailey Bridge shall include an erection tool and launching kit box, having adequate strength and functionality for launching the respective modular/bailey bridge.	
8.		Load Test	i. Three randomly selected bridge among the Modular/Bailey Bridges shall be subject to load tests at factory premise and at locations in Nepal as designated by the Client all complete as per AASHTO Manual for Condition Evaluation & LRFR of highway bridges, MCE 2003 or IRC SP 51. ii. The deflection limit of the bridge shall comply with the requirements specified in IRC:24 Section V: Steel Road Bridges.	
9.		Test certificate	i. Must be provided as confirmation of the steel quality used for the fabrication of the main structure elements. The client maintains the right, to take the random samples from any component supplied and to have the samples independently tested for verification of material specification conformity.	
10.		Ramp Set	i. Ramp set should be made by same steel grade material and zinc coated as main members of steel Modular/Bailey bridge. ii. The size of spring board of ramp should be appropriate for given width of bridge and included with bearing beam, pad seat board beam and end spring board. iii. The number of steel ramp sets shall be sufficient for the numbers of bridge as mentioned in Table A.	
11.		Quality Assurance	i. Manufacturer is to be ISO 9001 approved and suitable evidences to be provided. Third Party verification shall be carried out by supplier/manufacturer.	
12.		Delivery sites	i. For Bridge Type of length 50 m and width 4.2 m, each two sets bridge shall be delivered to 1) Godawari, Dhangadi 2) Nepalgunj 3) Damauli 4) Janakpur 5) Itahari ii. For Bridge Type of length 70 m and width 4.2 m, two sets bridge shall be delivered to 1) Hetauda iii. For Bridge Type of length 50 m and width 7.35 m, two sets bridge shall be delivered to 1) Itahari	

Note:

1. The manufacturer/supplier must fill their product's Specification and submit the manufacturer standard catalogue. Data missing from the catalogue must be declared in letter from the manufacture.
2. Any manufacturer producing modular or Bailey bridges designed for AASHTO loading or equivalent loading shall verify that their product is safe and adequate under IRC loading as specified above (Table 6: Live Load Combination).
3. Rate shall include load test on randomly selected modular bridges as specified in technical specification and third-party verification for quality assurance.

Quotation Sheet Form

for

1. Supply and delivery of steel modular/Bailey bridges with each sets of launching equipment's (including all required parts and equipment's for launching and de-launching) & required accessories as per technical specification with insurance fee, tests as per specification, load, unload, transportation from the manufacturing factory to the final destination in Nepal with all duties and taxes, levied by manufacturing country, transit country and Nepal including Custom and other duties as per the rule of land including lunching and de-launching of one bridge as directed by engineer all complete.

Item No.	Bridge Length/ Span (m)	Clear carriageway width (m)	Tentative Quantity (Nos.)	Unit	Rate (without VAT)	Amount without VAT (Rs)	Remarks
A. Modular/Bailey Bridge							
A.1	50	4.2	10	set			
A.2	50	7.35	2	set			
A.3	70	4.2	2	set			
B. Launching nose							
B.1	50	4.2	3	set			
B.2	50	7.35	1	set			
C. The Supplier/Manufacturer shall conduct demonstration training on the launching procedure for two randomly selected modular/Bailey bridges, at locations in Nepal designated by the Client all complete.							
	Total						