

Government of Nepal  
Ministry of Physical Infrastructure and Transport  
Department of Roads  
BRIDGE BRANCH

**BILL OF QUANTITIES**

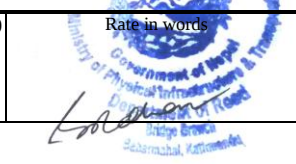


**Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):**

| S. N. | Name of Bridge              | Name of Road                                                                          | District |
|-------|-----------------------------|---------------------------------------------------------------------------------------|----------|
| 1     | Biring Khola Bridge         | Surung Campus–Laxmipande Salik–Dakshin–Rudila Basti–Tulsibari–Champapur–Durgapur Road | Jhapa    |
| 2     | Baniyani Khola Bridge       | East of Dharampur–5 Himali School, Shivasatachhi–1                                    | Jhapa    |
| 3     | Baluwa Khola Bridge/Culvert | Shadichandramani Bhattarai Roadway, Baluwadi VDC Ward No. 4 & 9                       | Jhapa    |
| 4     | Jamuwa Khola Bridge/Culvert | Jamuna Khola, Along Pathariya Ward No. 1                                              | Jhapa    |
| 5     | Bhem Khola Bridge/Culvert   | Pathamari VDC 9 & 3                                                                   | Jhapa    |
| 6     | Sukuna Khola Culvert        | Gwaldubba–Baigundhura Road, Juropani–5                                                | Jhapa    |
| 7     | Ratuwa Bridge               | Damak–19, Kohadara Baluwathan Road                                                    | Jhapa    |
| 8     | Balawa Khola Bridge         | Baluwari 8 & 2 Link Road                                                              | Jhapa    |
| 9     | Bhalu Khola Bridge          | Intreni Tala, Damak 19                                                                | Jhapa    |
| 10    | Deumai Khola Bridge         | Deumaikhola – Mahamai 1 – Jitapur                                                     | Jhapa    |

|                                                                                            |                                                                                                                                                                                                                                                                                                                    |       |                     |                       |                             |                             |                           |                      |               |                     |                    |                     |                | Contract No.     | BB-159-DSD-072/73-01 |                    |  |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------|-----------------------|-----------------------------|-----------------------------|---------------------------|----------------------|---------------|---------------------|--------------------|---------------------|----------------|------------------|----------------------|--------------------|--|
| SN                                                                                         | Particulars                                                                                                                                                                                                                                                                                                        | Unit  | Quantity            |                       |                             |                             |                           |                      |               |                     |                    |                     | Total quantity | Rate (excl. VAT) | Rate in words        | Amount (excl. VAT) |  |
|                                                                                            |                                                                                                                                                                                                                                                                                                                    |       | Biring Khola Bridge | Baniyani Khola Bridge | Baluwa Khola Bridge/Culvert | Jamuwa Khola Bridge/Culvert | Bhem Khola Bridge/Culvert | Sukuna Khola Culvert | Ratuwa Bridge | Balawa Khola Bridge | Bhalu Khola Bridge | Deumai Khola Bridge |                |                  |                      |                    |  |
|                                                                                            | Desk study and field works                                                                                                                                                                                                                                                                                         |       |                     |                       |                             |                             |                           |                      |               |                     |                    |                     |                |                  |                      |                    |  |
| 1                                                                                          | Desk Study including collection of data, maps and other information; planning of the works                                                                                                                                                                                                                         | Job   | 1                   | 1                     | 1                           | 1                           | 1                         | 1                    | 1             | 1                   | 1                  | 1                   | 10             |                  |                      |                    |  |
| 2                                                                                          | Field works including general reconnaissance, feasibility study, detailed engineering survey of the site, geological & geomorphologic study, field survey, topographic survey, site selection and environmental study, detailed hydrometric and hydrological study and preliminary soil investigation in test pits | Job   | 1                   | 1                     | 1                           | 1                           | 1                         | 1                    | 1             | 1                   | 1                  | 1                   | 10             |                  |                      |                    |  |
| Subtotal of desk study & field works                                                       |                                                                                                                                                                                                                                                                                                                    |       |                     |                       |                             |                             |                           |                      |               |                     |                    |                     |                |                  |                      |                    |  |
| Submission of Feasibility Study Report - 3 copies                                          |                                                                                                                                                                                                                                                                                                                    | #REF! |                     |                       |                             |                             |                           |                      |               |                     |                    |                     |                |                  |                      |                    |  |
| 3 Soil investigation                                                                       |                                                                                                                                                                                                                                                                                                                    |       |                     |                       |                             |                             |                           |                      |               |                     |                    |                     |                |                  |                      |                    |  |
| 3.1 Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR |                                                                                                                                                                                                                                                                                                                    |       |                     |                       |                             |                             |                           |                      |               |                     |                    |                     |                |                  |                      |                    |  |
|                                                                                            | Number of boreholes                                                                                                                                                                                                                                                                                                |       | 4                   | 3                     | 3                           | 3                           | 3                         | 3                    | 4             | 3                   | 3                  | 2                   | 31             | -----            | -----                | -----              |  |
| a                                                                                          | Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)                                                                                                                                                                                                                                             | RM    | 0                   | 0                     | 0                           | 0                           | 0                         | 60                   | 0             | 0                   | 0                  | 0                   | 60             |                  |                      |                    |  |
| b                                                                                          | Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)                                                                                                                                                                                                                               | RM    | 64                  | 48                    | 48                          | 48                          | 48                        | 0                    | 64            | 48                  | 48                 | 64                  | 480            |                  |                      |                    |  |
| Subtotal of drilling works, field tests and laboratory tests                               |                                                                                                                                                                                                                                                                                                                    |       |                     |                       |                             |                             |                           |                      |               |                     |                    |                     |                |                  |                      |                    |  |

Bill of Quantities

| SN  | Particulars                                                                                                                                                                                 | Unit | Quantity            |                       |                             |                             |                           |                      |               |                     |                    |                     | Total quantity | Rate (excl. VAT) | Rate in words<br> | Amount (excl. VAT) |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------|-----------------------|-----------------------------|-----------------------------|---------------------------|----------------------|---------------|---------------------|--------------------|---------------------|----------------|------------------|------------------------------------------------------------------------------------------------------|--------------------|
|     |                                                                                                                                                                                             |      | Biring Khola Bridge | Baniyani Khola Bridge | Baluwa Khola Bridge/Culvert | Jamuwa Khola Bridge/Culvert | Bhem Khola Bridge/Culvert | Sukuna Khola Culvert | Ratuwa Bridge | Balawa Khola Bridge | Bhalu Khola Bridge | Deumai Khola Bridge |                |                  |                                                                                                      |                    |
| 4   | Transportation                                                                                                                                                                              |      |                     |                       |                             |                             |                           |                      |               |                     |                    |                     |                |                  |                                                                                                      |                    |
| 4.1 | Transportation of personnel                                                                                                                                                                 | job  | 1                   | 1                     | 1                           | 1                           | 1                         | 1                    | 1             | 1                   | 1                  | 1                   | 10             |                  |                                                                                                      |                    |
| 4.2 | Transportation of equipment                                                                                                                                                                 | job  | 1                   | 1                     | 1                           | 1                           | 1                         | 1                    | 1             | 1                   | 1                  | 1                   | 10             |                  |                                                                                                      |                    |
|     | Subtotal of transportation                                                                                                                                                                  |      |                     |                       |                             |                             |                           |                      |               |                     |                    |                     |                |                  |                                                                                                      |                    |
| 5   | Detailed design and preparation of reports                                                                                                                                                  |      |                     |                       |                             |                             |                           |                      |               |                     |                    |                     |                |                  |                                                                                                      |                    |
| 5.1 | Detailed design works, preparation of cost estimates including bridge type selection, design of bridge, approach roads and river training works and preparation of drawing works as per TOR | job  | 1                   | 1                     | 1                           | 1                           | 1                         | 1                    | 1             | 1                   | 1                  | 1                   | 10             |                  |                                                                                                      |                    |
| 5.2 | Submission and presentation of of the works as per TOR including 2 copies in electronic formats (CD-ROM) and (separate sets for each bridge)                                                | job  | 1                   | 1                     | 1                           | 1                           | 1                         | 1                    | 1             | 1                   | 1                  | 1                   | 10             |                  |                                                                                                      |                    |
|     | Subtotal of detailed design and preparation of reports                                                                                                                                      |      |                     |                       |                             |                             |                           |                      |               |                     |                    |                     |                |                  |                                                                                                      |                    |
|     | Grand Total                                                                                                                                                                                 |      |                     |                       |                             |                             |                           |                      |               |                     |                    |                     |                |                  |                                                                                                      |                    |



In words:

Signature:  
Name and title:  
Date:  
Seal: