

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):**

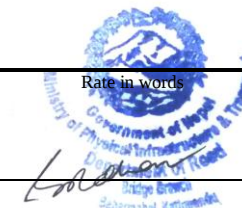
| S. N. | Name of Bridge                           | Name of Road                                                | District    |
|-------|------------------------------------------|-------------------------------------------------------------|-------------|
| 1     | Ilguriyanari Bridge                      | Sainamaina-9 wairakahi Dekhi Devowar Lumbini Road           | Rupandehi   |
| 2     | Gaurighola Bridge                        | Sispur Tharugau Gautam Buddhako Mawali Bhawanipur Link Road | Rupandehi   |
| 3     | Bridge                                   | Sonapur Bijayapur, Banaganga mun 4                          | Rupandehi   |
| 4     | Belaha Mathura Bridge                    | Motorable Bridge                                            | Arghakhachi |
| 5     | Bajhi Khola Bridge, Mathi Motorable Brid | 0                                                           | Arghakhachi |
| 6     | Bajhi Khola Bridge, Mathi Motorable Brid | 0                                                           | Arghakhachi |
| 7     | Bahirane warakarukh Motorable Bridge     | Khidim Ward 4 & 7                                           | Arghakhachi |
| 8     | Angaha Khola Bridge                      | Chhipani - Pipaladanda, Thanakun Motorway                   | Palpa       |
| 9     | Dedu kholama Bridge                      | Dedu khola Phek 4 and 9 bich                                | Palpa       |
| 10    | Kaligandaki R.C. Bridge                  | Yamgha -6 Mandran - Shrikrishn Gandaki VDC, Syangja         | Palpa       |

**Contract No. BB-159-DSD-072/73-23**

| SN  | Particulars                                                                                                                                                                                                                                                                                                        | Unit                                                                                                                                                                                                | Quantity            |                   |        |                       |                                            |                                            |                                      |                     |                     |                         | Total quantity | Rate (excl. VAT) | Rate in words | Amount (excl. VAT) |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------|--------|-----------------------|--------------------------------------------|--------------------------------------------|--------------------------------------|---------------------|---------------------|-------------------------|----------------|------------------|---------------|--------------------|
|     |                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                     | Ilguriyanari Bridge | Gaurighola Bridge | Bridge | Belaha Mathura Bridge | Bajhi Khola Bridge, Mathi Motorable Bridge | Bajhi Khola Bridge, Mathi Motorable Bridge | Bahirane warakarukh Motorable Bridge | Angaha Khola Bridge | Dedu kholama Bridge | Kaligandaki R.C. 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                                                                                                                                                                                                                                                                  | If the any of the bridge(s) is found to be unfeasible then the work(s) of that bridge(s) will be terminated at this stage and payment shall be made according to SCC Clause no. 6.4 (a) & (b) NOTE. |                     |                   |        |                       |                                            |                                            |                                      |                     |                     |                         |                |                  |               |                    |
| 3   | Soil investigation                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                     |                     |                   |        |                       |                                            |                                            |                                      |                     |                     |                         |                |                  |               |                    |
| 3.1 | Drilling of boreholes and carryout specified Field and Laboratory tests as per the TOR                                                                                                                                                                                                                             |                                                                                                                                                                                                     |                     |                   |        |                       |                                            |                                            |                                      |                     |                     |                         |                |                  |               |                    |
|     | Number of boreholes                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                     | 3                   | 3                 | 3      | 2                     | 3                                          | 2                                          | 2                                    | 3                   | 2                   | 3                       | 26             | -----            | -----         | -----              |
| a   | Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)                                                                                                                                                                                                                                             | RM                                                                                                                                                                                                  | 60                  | 60                | 60     | 0                     | 0                                          | 0                                          | 0                                    | 0                   | 0                   | 0                       | 180            |                  |               |                    |
| b   | Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)                                                                                                                                                                                                                               | RM                                                                                                                                                                                                  | 0                   | 0                 | 0      | 32                    | 48                                         | 32                                         | 32                                   | 48                  | 32                  | 32                      | 256            |                  |               |                    |
|     | 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) |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------|-------------------|--------|-----------------------|--------------------------------------------|--------------------------------------------|--------------------------------------|---------------------|---------------------|-------------------------|----------------|------------------|------------------------------------------------------------------------------------------------------|--------------------|
|     |                                                                                                                                                                                             |      | Ilguriyanari Bridge | Gaurighola Bridge | Bridge | Belaha Mathura Bridge | Bajhi Khola Bridge, Mathi Motorable Bridge | Bajhi Khola Bridge, Mathi Motorable Bridge | Bahirane warakarukh Motorable Bridge | Angaha Khola Bridge | Dedu kholama Bridge | Kaligandaki R.C. 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: