

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



**BILL OF QUANTITIES**

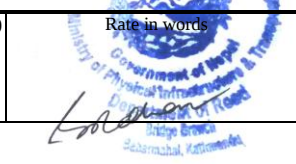
**Feasibility Study, Detailed Engineering Survey, Soil Investigation, Hydrological Study and Detailed Design of the bridge(s):**

| S. N. | Name of Bridge             | Name of Road                                                             | District    |
|-------|----------------------------|--------------------------------------------------------------------------|-------------|
| 1     | Kataniya River R.C. Bridge | Ga.Vi.S Tenuwapatti Ward 5 Siraha                                        | Siraha      |
| 2     | Tapkhola R.C. Motor Bridge | Between Kharmi-3 & Baksila-8                                             | Khotang     |
| 3     | Rawa Khola R.C. Bridge     | Sungdel-Dipsung                                                          | Khotang     |
| 4     | Rawa Khola R.C. Bridge     | Bijule-Buipa-Baamrang-Diktal Road                                        | Khotang     |
| 5     | Banshilaghat Bridge        | Bansila-Pauwasera-Chisapani Road                                         | Khotang     |
| 6     | Molung Dovan Bridge        | Toksel & Sikteri VDC                                                     | Okhaldhunga |
| 7     | Pokting Khola Motor Bridge | Chitre-Bigutar-Nalidanda-Talakot-Patle- Demba Motor Road                 | Okhaldhunga |
| 8     | Roch Bridge                | Jayramghat-Talawa-Bhadaure-Kuibhir- Dadhakund-Dudhakoshi aquire Motorway | Okhaldhunga |
| 9     | Dudhkoshi Bridge           | Olakhadhunga-Bhadaure-Silauri Road                                       | Okhaldhunga |
| 10    | R.C. Bridge                | Nawalpur-Palapur Phalate Road, Nawalapur                                 | Okhaldhunga |

**Contract No. BB-159-DSD-072/73-06**

| SN  | Particulars                                                                                                                                                                                                                                                                                                        | Unit                                                                                                                                                                                                | Quantity                   |                            |                        |                        |                     |                     |                            |             |                  |             | Total quantity | Rate (excl. VAT) | Rate in words | Amount (excl. VAT) |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|------------------------|------------------------|---------------------|---------------------|----------------------------|-------------|------------------|-------------|----------------|------------------|---------------|--------------------|
|     |                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                     | Kataniya River R.C. Bridge | Tapkhola R.C. Motor Bridge | Rawa Khola R.C. Bridge | Rawa Khola R.C. Bridge | Banshilaghat Bridge | Molung Dovan Bridge | Pokting Khola Motor Bridge | Roch Bridge | Dudhkoshi Bridge | 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                          | 2                          | 3                      | 3                      | 2                   | 2                   | 3                          | 2           | 3                | 2           | 25             | -----            | -----         | -----              |
| a   | Drilling 0 to 20 m in clayey,sandy soils,& gravel mixed soils (Type_1)                                                                                                                                                                                                                                             | RM                                                                                                                                                                                                  | 60                         | 0                          | 0                      | 0                      | 0                   | 0                   | 0                          | 0           | 0                | 0           | 60             |                  |               |                    |
| b   | Drilling 0 to 16 m in gravel,pebbles,cobbles & boulders, soft and hard rock (Type_2)                                                                                                                                                                                                                               | RM                                                                                                                                                                                                  | 0                          | 32                         | 48                     | 48                     | 32                  | 32                  | 48                         | 32          | 48               | 48          | 368            |                  |               |                    |
|     | 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) |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------|----------------------------|------------------------|------------------------|---------------------|---------------------|----------------------------|-------------|------------------|-------------|----------------|------------------|------------------------------------------------------------------------------------------------------|--------------------|
|     |                                                                                                                                                                                             |      | Kataniya River R.C. Bridge | Tapkhola R.C. Motor Bridge | Rawa Khola R.C. Bridge | Rawa Khola R.C. Bridge | Banshilaghat Bridge | Molung Dovan Bridge | Pokting Khola Motor Bridge | Roch Bridge | Dudhkoshi Bridge | 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: