

# STANDARD BIDDING DOCUMENT

## Procurement of Small Works

ཕྱི་ཁྱེད་ལ་བཀའ་བློན་གྱི་ཕྱི་ཁྱེད་



**Name of work: CONSTRUCTION OF SUSPENDED  
BRIDGE OVER CHACAY RIVER AT CHAMERAY UNDER  
TSIRINGTOED GEOW**

**Tender Sale: From 05/04/2019 To 15/04/2019**

	<b>Date &amp; Time</b>	<b>Place</b>
<b>Bid Submission</b>	15/04/2019, Before 10.00 AM	GEWOG OFFICE TSIRINGTOED GEWOG.
<b>Bid Opening</b>	15/04/2019, at 10.30 AM	GUP'S OFFICE, TSIRANGTOED GEWOG
<b>Name of the firm: - .....</b>		
<b>Name of the Bidder: - .....</b>		
<b>Contact/ Mobile number: - .....</b>		



**Royal Government of Bhutan  
Gewog Administration  
Tsirangtoed.**



Ref:No. TD/Tsirangtoed-34/2018-19/ **267**

4<sup>th</sup> April, 2019

**Invitation for Bids**

The Geog Administration, Tsirangtoed invites sealed Bids from eligible and qualified Bidders for the execution of work as mentioned below;

SL.no	Name of Work	Estimate Amount (Mn)	Contract Duration	EMD (Nu)	Category	Sales
1	Construction of Suspended bridge over Chachay river at Chamerry under Tsirangtoed Geog.	Nu. 2.62	10 Months	52,400.00	W1/S	05-04-2019 to 15-04-2019

1. Bidding will be conducted through the limited Competitive Bidding procedures specified in the RGoB Procurement Manual, and are open to all Bidders from Countries as defined in Section III of the Bidding Documents.
2. A complete set of Bidding Documents can be downloaded by interested bidders from the Dzongkhag website [www.tsirang.gov.bt](http://www.tsirang.gov.bt) and [www.cdh.gov.bt](http://www.cdh.gov.bt) w.e.f. **05<sup>th</sup> April 2019**.
3. Bids must be delivered to the Geog Administration, Tsirangtoed on or **before 10.00 AM on 15/4/2019**. Electronic bidding "*shall not*" be permitted. Late bids will be rejected. Bids will be opened physically in the presence of the bidders' representatives who choose to attend in person at **Gup Office 15/4/2019 at 10.30 AM**.
4. All Bids shall be accompanied by a Bid Security of **as mentioned above** drawn in favors of **Gup, Geog Administration Tsirangtoed, Tsirang** and will have to be in any one of the forms as specified in the bidding document and should be valid for 30 days beyond bid validity.

(Nar Bdr. Rai)

Gup

Copy to:

1. Planning Officer, Dzongkhag Adm. Tsirang for information
2. FO, Dzongkhag Adm. Tsirang for information
3. DE, Dzongkhag Adm. Tsirang for information.
5. ICTO, Dzongkhag Adm. Tsirang. for uploading the bidding documents in dzongkhag website
7. Office copy

## Contents

<b>INVITATIONS FOR BIDS (IFB)</b> .....	Error! Bookmark not defined.
<b>Section 1: Instructions to Bidder (ITB)</b> .....	<b>5</b>
<b>A. General</b> .....	<b>5</b>
1. Scope of Tender.....	5
2. Corrupt Fraudulent Collusive or Coercive Practices.....	5
3. Eligible Bidders .....	6
4. Site Visit .....	6
<b>B. Content of Bidding Document</b> .....	<b>6</b>
5. Contents of Bidding Documents.....	6
6. Clarification of Bidding Documents .....	6
7. Amendment of Bidding Documents .....	7
<b>C. Preparation of Bids</b> .....	<b>7</b>
8. One Bid per Bidder.....	7
9. Bid Preparation Costs .....	7
10. Language of Bid.....	7
11. Documents comprising the Bid .....	7
13. Alternative Bid .....	7
14. Bid Price and Discount.....	7
15. Currencies of Bid and Payment .....	8
16. Documents comprising the Technical Proposal .....	8
17. Documents establishing the Qualification of the Bidder.....	8
18. Bid Validity.....	8
20. Format and Signing of Bid .....	8
<b>D. Submission and Opening of Bids</b> .....	<b>9</b>
21. Sealing and Marking of Bids.....	9
22. Bid Submission Deadline .....	9
23. Late Bids.....	9
24. Modification, Substitution or Withdrawal of Bids.....	9
25. Bid Opening.....	10
<b>E. Tender Opening and Evaluation</b> .....	<b>10</b>
26. Confidentiality.....	10
27. Clarification.....	10
28. Bidder: Contacting the Employer.....	10
29. Determination of Responsiveness .....	10
30. Non Conformities, Errors and Omissions .....	11
31. Evaluation and Comparison of Tenders.....	11
32. Employer's Right to Accept or Reject any or all.....	11
<b>F. Contract Award</b> .....	<b>11</b>
33. Award Criteria.....	11
34. Letter of Intent to Award the Contract/ Notification of Award.....	12
35. Complaints.....	12
<b>Section 2 - Bidding Data Sheet</b> .....	<b>13</b>
<b>A. General</b> .....	<b>13</b>
<b>B. Bidding Documents</b> .....	<b>13</b>
<b>C. Preparation of Bids</b> .....	<b>13</b>
<b>D. Submission and Opening of Bids</b> .....	<b>14</b>
<b>F. Award of Contract</b> .....	<b>14</b>
<b>Section 3 – Evaluation and Qualification Criteria</b> .....	<b>15</b>
<b>Section 4: Forms of Bid &amp; Qualification Information</b> .....	<b>15</b>
Standard Form: Form of bid.....	16
Standard Form: Qualification Information.....	17
Standard Form: Letter of Intent.....	18

<b>Standard Form: Letter of Acceptance .....</b>	<b>19</b>
<b>Bank Guarantee for Bid Security.....</b>	<b>20</b>
<b>Section 5. General Conditions of Contract .....</b>	<b>21</b>
1. Definitions .....	21
2. Interpretation & Documents forming the Contract.....	21
3. Corrupt, Fraudulent, Collusive or Coercive Practices .....	22
4. Governing Language and Law .....	23
5. Engineer's Decision .....	23
6. Delegation.....	23
7. Communications and Notices.....	23
8. Sub- Contracting .....	23
9. Contractor's Personnel .....	23
10. Welfare of Labourers & Child Labour.....	23
11. Safety, Security and Protection of the Environment.....	23
12. Access to the Site .....	23
13. Documents, Information.....	24
14. Property .....	24
15. Insurance .....	24
16. Possession of the Site .....	24
17. Commencement of Works .....	24
18. Completion of Works .....	24
19. Programme of Works .....	24
20. Early Warning .....	24
21. Compensation Events.....	24
22. Non-Scheduled Items of Works .....	24
23. Schedule of Works .....	25
24. Payment Certificates .....	25
25. Payments and Currency .....	25
26. Retention .....	25
27. Liquidated Damages.....	26
28. Performance Security .....	26
29. Price Adjustment .....	26
30. Completion.....	26
31. Correction of Defects .....	26
32. Taking Over .....	26
33. Final Account.....	26
34. Termination .....	26
35. Payment upon Termination .....	27
36. Release from Performance.....	27
37. Force Majeure.....	27
38. Settlement of Disputes .....	28
<b>Section 6. Special Conditions of Contract.....</b>	<b>29</b>
<b>Section 7 – Contract Forms .....</b>	<b>31</b>
<b>Form-1 .....</b>	<b>32</b>
<b>Form-2 .....</b>	<b>33</b>
<b>Contract Agreement.....</b>	<b>33</b>
<b>Form-3 .....</b>	<b>34</b>
<b>Bank Guarantee for Performance Security .....</b>	<b>34</b>
<b>Bank Guarantee for mobilisation advance.....</b>	<b>35</b>

## Section 1: Instructions to Bidder (ITB)

### A. General

1. Scope of Tender
  - 1.1 The Employer, as **indicated in the BDS** issues this Bidding Document for the procurement of Works as specified in Section 6 (Employer's requirement): The name, identification and identification of this bidding are **provided in the BDS**.
  - 1.2 The successful Bidder will be required to complete the Works within the Time for Completion stated in the Special Conditions of Contract (SCC).
  - 1.3 Throughout this Bidding Documents;
    - (a) The term "in writing means communicated in written form with proof of receipt;
    - (b) If the context so requires, singular means plural and vice versa; and
    - (c) "day" means calendar day.
2. Corrupt Fraudulent Collusive or Coercive Practices
  - 2.1 The Royal Government of Bhutan requires that Employers and the Bidders shall observe the highest standard of ethics during the implementation of procurement proceedings and the execution of Contracts under public funds.
  - 2.2 In pursuance of this requirement, the Employer shall
    - (a) exclude the bidder from participation in the procurement proceeding concerned or reject a proposal for award; and
    - (b) declare a bidder ineligible, either indefinitely or for a stated period of time, from participation in procurement proceedings under public funds;
  - 2.3 If it, at any time, determines that the bidder has engaged in corrupt, fraudulent, collusive or coercive practices in competing for, or in executing, a Contract under the public funds.
  - 2.4 The Government defines, for the purposes of this provision, the terms set forth below as follows :
    - a) "**corrupt practice**"<sup>1</sup> is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
    - b) "**fraudulent practice**"<sup>2</sup> is any intentional act or omission including misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefits or to avoid an obligation;
    - c) "**collusive practice**"<sup>3</sup> is an arrangement between two or more parties designed to achieve an improper purpose, including to

influence improperly the actions of another party;

d) “**coercive practice**”<sup>4</sup> is impairing or harming or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party.

2.5 The bidder shall be aware of the provisions on fraud and corruption stated in GCC Clause 3 and GCC Sub-Clause 34.2(d).

2.6 The RGoB requires that the Employer’s personnel have an equal obligation not to solicit, ask for and/or use coercive methods to obtain personal benefits in connection with the said proceedings.

- |                     |   |
|---------------------|---|
| 3. Eligible Bidders | 3.1 Bidders of the categories <b>specified in the BDS</b> are eligible to participate in this bidding process.  |
|                     | 3.2 The Employer shall invite Bids using the Open Tendering Method (National Competitive Bidding) or limited tender as applicable.  |
|                     | 3.3 The bidder shall meet the qualification requirement stated in the BDS   |
| 4. Site Visit       | 4.1 The Bidders, at their own responsibility and risk, is encouraged to visit and examine the Site and obtain all information that may be necessary for preparing the bid and entering into a Contract for performance of the Works. The costs of visiting the Site shall be at the bidder’s own expense. |

## B. Content of Bidding Document

- |                                       |  |
|---------------------------------------|--|
| 5. Contents of Bidding Documents      | 5.1 The sections comprising the Bidding Document are listed below and should be read in conjunction with any Amendment issued in accordance with ITB Clause 7:<br><br><b>PART 1 Bidding Procedures</b> <ul style="list-style-type: none"><li>• Section 1: Instructions to Bidders (ITB)</li><li>• Section 2: Bidding Data Sheet (BDS)</li><li>• Section 3: Evaluation and Qualification Criteria</li><li>• Section 4: Bidding forms</li><li>• Section 5: General Conditions of Contract (GCC)</li><li>• Section 6: Special Conditions of Contract (SCC)</li><li>• Section 7: Contract Forms</li><li>• Section 8: Bill of Quantities &amp; Specifications</li><li>• Section 9: Drawings</li></ul> |
|                                       | 5.2 The Employer is not responsible for the completeness of the Bidding Document and their Addenda, if they were not obtained directly from the source stated by the Employer in the Invitation for Bids.  |
|                                       | 5.3 The Bidder is expected to examine all instructions, forms terms, and specifications in the Bidding Documents. Failure to furnish all information or documentation required by the Bidding Documents may result in the rejection of the bid.  |
| 6. Clarification of Bidding Documents | 6.1 A prospective Bidder requiring any clarification of the Bidding Document shall contact the Employer in writing at the Employer’s address <b>indicated in the BDS</b> .   |

- |                                   |   |
|-----------------------------------|---|
| 7. Amendment of Bidding Documents | 7.1 At any time prior to the deadline for submission of Bid, the Employer may amend the Bidding Document by issuing addenda and extend the deadline for the submission of bids at its discretion. Any amendment issued shall become an integral part of the Bidding Document and shall be communicated in writing to all those who have purchased the Bidding Document. |
|-----------------------------------|---|

## C. Preparation of Bids

- |                                  |   |
|----------------------------------|---|
| 8. One Bid per Bidder            | 8.1 A Bidder shall submit only one (1) Bid. A Bidder who submits or participates in more than one (1) Bid shall cause all the proposals with the Bidder's participation to be disqualified.   |
| 9. Bid Preparation Costs         | 9.1 The Bidder shall bear all costs associated with the preparation and submission of its Bids, and the Employer shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the Bidding process.  |
| 10. Language of Bid              | 10.1 All documents relating to the Bid shall be in the language specified in the BDS.   |
| 11. Documents comprising the Bid | <p>11.1 The original and copy(ies) of Bid submitted by the Bidder shall comprise the following:</p> <ul style="list-style-type: none"> <li>(a) The Bid form (in the format indicated in Section IV – Forms of Bid, Qualification Information, Letter of Acceptance, and Contract);</li> <li>(b) License and certificate</li> <li>(c) Bid Security in accordance with Clause 19;</li> <li>(d) Priced Bill of Quantities;</li> <li>(e) and any other materials required to be completed and submitted by Bidders, as specified in the BDS.</li> </ul> <p>11.2 The Instruction to Bidders, Bidding Data Sheet, General Conditions of Contract, Special Conditions of Contract, Specifications and drawings are for the information of the bidders and is not required to be submitted by the bidder,</p> |
| 12 Letter of Bid and Schedule    | 12.1 The letter of Bid, Schedules, and all documents listed under Clause 11, shall be prepared using the relevant forms in Section 4 (Bidding Forms), if so provided in BDS. The forms must be completed without any alterations to the text, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.   |
| 13. Alternative Bid              | 13.1 Alternative Bid shall not be considered in small works.  |
| 14. Bid Price and Discount       | <p>14.1 The prices and discounts quoted by the Bidder in the Letter of Bid and in the Schedules shall confirm to the requirements specified below;</p> <p>14.2 The bidder shall submit a bid for the whole of the works described in ITB 1.1 by filling in prices for all items of the Works, as identified in Section 4, Bidding Forms. In case of admeasurements contracts, the Bidder shall fill in rates and prices for all items of the Works described</p>  |

in the Bill of Quantities. Items against which no rate or price is entered by the Bidder will not be paid for by the Employer when executed and shall be deemed covered by the rates for other items and prices in the Bill of Quantities.

- |   |      |   |
|---|------|---|
|   | 14.3 | The Bid price shall take into account the cost of materials, transportation, labour, taxes, levies, overheads and profit and any other cost. The Bid price shall be fixed for the duration of performance of the Contract and shall not be subject to any adjustment on any account. The Bid price shall be applicable for the whole works described in the Drawings, Specifications and Schedule of Works.   |
| 15 Currencies of Bid and Payment                          | 15.1 | All prices shall be quoted in Bhutanese Ngultrum (BTN) and shall be paid in BTN.  |
| 16 Documents comprising the Technical Proposal            | 16.1 | The bidder shall furnish a work plan in simple bar chart and other information if provided in BDS, to demonstrate the adequacy of the Bidders' proposal to meet the work requirements and the completion time.  |
| 17 Documents establishing the Qualification of the Bidder | 17.1 | To establish its qualification to perform the Contract in accordance with Section 3 (Evaluation and Qualification Criteria) the Bidder shall provide the information requested in the corresponding information sheets included in Section 4 (Bidding Forms)  |
| 18 Bid Validity   | 18.1 | Bids shall remain valid for the period <b>specified in the BDS</b> . Any Bids which does not meet the validity requirement as per the BDS shall be rejected by the Employer as non-responsive.  |
| 19 Bid Security   | 19.1 | The Bidder shall at their option furnish, as part of the Bid, a Bid Security as <b>specified in the BDS</b> issued by any reputed Financial Institutions in Bhutan and shall be valid thirty (30) days beyond the Bid validity period. <ul style="list-style-type: none"> <li>a) Unconditional Bank Guarantee;</li> <li>b) A demand Draft; or</li> <li>c) Cash Warrant</li> </ul>   |
|   | 19.2 | In exceptional circumstances, prior to the expiration of the Bid validity period, the Employer may solicit the Bidder's consent to an extension of the Bid validity period. The request and responses shall be made in writing. The validity of Bid Security shall be suitably extended promptly.   |
|   | 19.3 | The Bid Security may be forfeited: <ul style="list-style-type: none"> <li>(a) if the Bidder withdraws the Bid after Bid opening during the period of Bid validity. Further the bidder may be excluded from future participation for a period of two years.</li> <li>(b) if the Bidder does not accept the correction of the Bid price, pursuant to clause 31; or</li> <li>(c) in the case of a successful Bidder, if the Bidder fails within the specified time limit to sign the Agreement; or furnish the required Performance Security.</li> </ul> |
| 20 Format and   | 20.1 | The Bidder shall prepare one (1) original of the documents comprising   |

- Signing of Bid the Bid as described in ITB Clause 11 and clearly mark it “ORIGINAL.” In addition, the Bidder shall prepare the number of copies of the Bid, as specified in the BDS and clearly mark each of them “COPY.” In the event of any discrepancy between the original and the copies, the original shall prevail.
- 20.2 The original and each copy of the Bid shall be typed or written in indelible ink and shall be signed by the person duly authorized to sign on behalf of the Bidder.
- 20.3 Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialled by the person(s) signing the Bid.

## D. Submission and Opening of Bids

- 21 Sealing and Marking of Bids
- 21.1 The Bidder shall enclose the original in one (1) envelope and all the copies of the bid in another envelope, duly marking the envelopes as “ORIGINAL” and “COPY.” These two (2) envelopes shall then be enclosed in one (1) single outer envelope.
- 21.2 The inner envelopes shall:
- (a) Be signed across the seals by the person authorised to sign the Bid on behalf of the Bidder;
  - (b) Be marked “ORIGINAL” and “COPY” and
  - (c) Bear the name and address of the Bidder.
- 21.3 The outer envelope shall;
- (a) Be sealed with adhesive or other sealant to prevent reopening;
- 21.4 be addressed to the Employer at the address specified in the BDS; bear a statement “DO NOT OPEN BEFORE.....” the time and date for Bid opening as specified in the BDS.
- 21.5 If all or any envelopes are not sealed and marked as required by ITB Sub-Clause 21, the Employer **shall not reject the bids but assume no responsibility for the misplacement or premature opening of the Bid.**
- 22 Bid Submission Deadline
- 22.1 Bids must be received by the Employer at the address and no later than the date and time **specified in the BDS.**
- 22.2 Bids may be hand delivered, posted by registered mail or sent by courier.
- 22.2 The Employer may, at its discretion, extend the deadline for the submission of Bids by amending the Bidding Document in accordance with ITB Clause 7, in which case all rights and obligations of the Employer and Bidders previously subject to the deadline shall thereafter be subject to the new deadline as extended.
- 23 Late Bids
- 23.1 Late bids shall not be considered and shall be returned unopened
- 24 Modification, Substitution or Withdrawal of Bids
- 24.1 A Bidder may modify, substitute or withdraw their Bids after it has been submitted by sending a written notice before the deadline for submission of Bids.

- |                |      |   |
|----------------|------|---|
| 25 Bid Opening | 25.1 | The Employer shall open the Bids in the presence of the bidders who is attending the bid opening, including modifications or substitutions made pursuant to ITB Clause 24. Bidders or their representatives shall be allowed to attend and witness the bid opening and shall sign a register evidencing their attendance. |
|                | 25.2 | The name of the Bidder, Bid modifications, substitutions or withdrawals, total amount of each Bid, number of corrections, discounts, and the presence or absence of requisite Bid Security, and such other details as the Employer, at its discretion, may consider appropriate, shall be read out aloud and recorded.    |
|                | 25.3 | The Employer shall prepare minutes of the Bid opening. The minutes shall include, as a minimum, the name of the Bidders and whether there has been a withdrawal, substitution or modification; the Bid Price including any discounts and the presence or absence of a Bid Security, if one was required.                  |
|                | 25.4 | Bids not opened and read out at the Bid opening shall not be considered, irrespective of the circumstances, and shall be returned unopened to the Bidder  |

## **E. Tender Opening and Evaluation**

- |  |      |  |
|--|------|--|
| 26 Confidentiality                       | 26.1 | After the opening of Bids, information relating to the examination, clarification, and evaluation of Bids and recommendations for award shall not be disclosed to Bidders or other persons not officially concerned with the evaluation process until after the award of the Contract is announced.  |
| 27 Clarification                         | 27.1 | The Employer may ask Bidders for clarification of their Bids in order to facilitate the examination and evaluation of Bids. The request for clarification and the response shall be in writing, and any changes in the prices or substance of the Bid shall not be sought, offered or permitted, except to confirm the correction of arithmetical errors discovered by the Employer in the evaluation of the Bids, in accordance with ITB Clause 31. |
| 28 Bidder:<br>Contacting<br>the Employer | 28.1 | Following the opening of Bids and until the Contract is signed no Bidder shall make any unsolicited communication to the Employer or try in any way to influence the Employer's examination and evaluation of Bids which may result in the rejection of bids. If any Bidder wishes to contact the Employer on any matter related to the Bidding process, it should do so in writing  |
| 29 Determination of<br>Responsiveness    | 29.1 | Prior to detailed evaluation of bids, the employer shall determine whether each bid (a) meets the eligibility criteria defined in ITB clause 3; (b) has been properly signed; (c) is accompanied by the bid security; and (d) is substantially responsive to the requirements of the bidding documents.  |
|  | 29.2 | A substantially responsive Bid is one that conforms in all respects to the requirements of the Bidding Document without material deviation, reservation or omission. A material deviation, reservation or omission is one that: <ul style="list-style-type: none"> <li>(a) affects in any substantial way the scope, quality, or</li> </ul>  |

performance of the Works specified in the Contract; or

(b) limits in any substantial way, or is inconsistent with the Bid Document, the Employer's rights or the Bidder's obligations under the Contract; or

(c) if rectified would unfairly affect the competitive position of other Bidders presenting substantially responsive Bids.

29.3 If a Bid is not substantially responsive to the Bidding Document it shall be rejected by the Employer and shall not subsequently be made responsive by the Bidder by correction of the material deviation, reservation or omission.

29.4 There shall be no requirement as to the minimum number of responsive Bids.

30 Non Conformities, Errors and Omissions

30.1 The Employer may regard a Bid as responsive even if it contains minor deviations that do not materially alter or depart from the characteristics, terms, conditions and other requirement set forth in the Bidding Document or if it contains errors or oversights that are capable of being corrected without affecting the substance of the Bid.

31 Evaluation and Comparison of Tenders

31.1 The Employer shall evaluate and compare only those Bids determined to be substantially responsive to the requirements of the Bidding Document. Substantially responsive Bids are those which fulfil the requirements of ITB Clauses 11 and 12.

31.2 The evaluation will take into account corrected Bid Price and discounts (if any).

31.3 The Employer will check substantially responsive Bids for any arithmetical errors. Where there is a discrepancy between the amounts in figures and words, the amount in words will govern. If a Bidder refuses to accept the correction, its Bids shall be rejected. The Employer shall correct arithmetical errors on the following basis:

(a) if there is a discrepancy between the unit price and the line item total, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the Employer there is an obvious misplacement of the decimal point in the unit price, in which case the total price, as quoted, shall govern and the unit price shall be corrected; and

32. Employer's Right to Accept or Reject any or all

32.1 The Employer reserves the right to accept any Bid, to annul the Bid proceedings, or to reject any or all Bids, at any time prior to Contract award, without thereby incurring any liability to Bidders, or any obligation to inform Bidders of the grounds for the Employer's actions.

## **F. Contract Award**

33. Award Criteria

33.1 The Employer shall award the Contract to the Bidders whose offer is substantially responsive to the Bidding Document and that has been determined to be the lowest evaluated Bid, provided that the Bidder is determined to be qualified to perform the Contract satisfactorily

34. Letter of Intent to Award the Contract/ Notification of Award
- 34.1 The Employer shall notify the concerned Bidder whose bid has been selected in accordance with ITB 33.1 in writing (in the format in Section 4-hereafter called the "Letter of Intent to Award") that the Employer has intention to accept its bid and the information regarding the name, address and amount of selected bidder shall be given to all other bidders who submitted the bid. Such notification should be communicated in writing, including by cable, facsimile, telex or electronic mail to all the bidders on the same day of dispatch. The Employer shall ensure that the same information is uploaded on their website on the same day of dispatch.
- 34.2 If no bidder submits an application pursuant to ITB 35 within a period of ten (10) days of the notice provided under ITB 34.1, Prior to the expiration of the period of Bid validity, the Employer shall notify the successful Bidder, in writing that its Bid has been accepted. Until a formal contract is prepared and executed, the Notification of Award shall constitute a binding Contract.
- 34.3 Within fifteen (15) working days of the receipt of the Notification of Award from the Employer, the successful Bidder shall furnish the Performance Security, in the amount specified in the BDS.
- 34.4 The proceeds of the performance security shall be payable to the Employer unconditionally upon first written demand as compensation for any loss resulting from the Contractor's failure to complete its obligations under the Contract
- 34.5 Within fifteen (15) working days of receipt of the notification of award, the successful Bidder shall sign, date and return it to the Employer.
- 35.Complaints
- 35.1 The Bidder shall submit the complaint in writing within ten (10) days from the date of letter of intent to award the contract pursuant to ITB 34.1 to the Employer.
- 35.2 The Bidder may appeal to the Independent Review Body only if the Employer has not delivered the decision within the specified time, or the complainant is not satisfied with the decision of the Employer in accordance with rules and procedures of Independent Review Body.

## Section 2 - Bidding Data Sheet

*Instructions for completing the Bidding Data Sheet are provided, as needed, in the notes in italics mentioned for the relevant ITB Clauses*

<b>ITB Clause</b>	<b>Amendment of, and Supplements to, Clauses in the Instructions to Bidders</b>
-------------------	---

### A. General

ITB 1.1	The Employer is <i>[Gup, Gewog Administration, Tsirangtoed gewog]</i>
	The Name <i>[Construction of Suspended bridge over Chachay river at Chameray under Tsiringtoed Geog]</i> and Identification of the Contract is <i>TD/Tsirangtoed-34/2018-19/267 dated 4<sup>th</sup> April 2019.</i>
	The Works are <i>[Civil works: Earth work in excavation, Reinforced cement concrete work Fabrication of steel parts, galvanising, launching of the bridge &amp; finishing works]</i>
ITB 3.2	<b>Option A: Limited tender</b> All Bidders regardless of whether enlisted or not enlisted with the Dzongkhag may submit Bids provided they otherwise qualify.
ITB 3.3	The evaluation shall be based on the lowest price of the responsive bidder and the work will awarded to the lowest responsive bidder.

### B. Bidding Documents

ITB 7.1	For <u>clarification of Tenders purposes</u> only, the Employer's address is: Attention: <b>Dzongkhag Engineer</b> Address: <b>Dzongkhag Administration, Tsirang</b> Telephone: <b>06-471202</b> Facsimile number: <b>06-471202</b>
---------	---

### C. Preparation of Bids

ITB 15.1	The Bid validity period shall be [60] days.
ITB 15.2	A Bid Security in the amount of <b>Nu. 52,400.00/-</b> will be required, in the form; a) Unconditional Bank guarantee b) Cash warrant; or c) Demand draft
ITB 16.1	A simple bar chart is <i>required</i> .
ITB 19.1	In addition to the original, <i>[one]</i> copies shall be submitted.

<b>D. Submission and Opening of Bids</b>	
<b>ITB 17.2</b>	The inner and outer envelopes shall bear the following additional identification marks: <i>[Do not open before 10:30 am on 15.04.2019]</i>
<b>ITB 17.2</b>	For <b><u>Bid submission purposes</u></b> only, the Employer's address is: Attention: <b><i>Gup</i></b> Address: <b><i>Gewog Administration, Tsirangtoed Gewog</i></b> The deadline for the submission of Tenders is: <b><i>Time 10:00 AM, date; 15.04.2019.</i></b>
<b>ITB 21.1</b>	The Bid opening shall take place on the same day as the closing day of the bid submission at: <b><i>[Gup's Office]</i></b>  Date: <b><i>15/04/2019; Time: 10:30 AM.</i></b>
<b>F. Award of Contract</b>	
<b>ITB 34.2</b>	The amount of Performance Security shall be <b><i>[10%]</i></b> percent of the Contract Price.
<b>ITB 34.3</b>	<p>The lowest evaluated bidder whose bid is considered abnormally low or unbalanced, following prescribed evaluation procedures, the bids shall be required to provide differential security in the form of "<b>cash warrant</b>" in addition to performance security. The cash warrant shall be valid for at least 6 months, and thereafter can be converted into bank guarantee. The payment has to be made within 10 working days after receipt of the letter of acceptance by the bidder.</p> <p>The additional security amount to be provided by the bidders, in the form of cash warrant shall be the difference between departmentally estimated amount and the amount quoted by the successful bidder.</p>

## Section 3 – Evaluation and Qualification Criteria

This section contains all the criteria that the Employer shall use to evaluate bids and qualify Bidders if the bidding was not preceded by a prequalification exercise and post qualifications are applied. Procuring Agency may apply basic minimum technical qualification requirement (manpower and equipment) only if there is a project specific need.

### 1. Evaluation

1.1 Evaluation shall be done to determine the responsiveness and the award shall be made to the lowest evaluated bidder.

## Section 4: Forms of Bid & Qualification Information

### Table of Standard Forms

Standard Form: Form of Bid

Standard Form: Letter of Intent

Standard Form: Letter of Acceptance

Standard Form: Bid security Bank  
Guarantee

## Standard Form: Form of bid

Date: - .....

To .....

Address .....

.....

.....

We offer to execute the contract for construction of “.....  
.....” in accordance with the Conditions  
of Contract accompanying this Bid for the Contract Price of .....  
[*amount in figures*] (.....  
.....  
.....) [*amount in words*]..... [*name of currency*].

The contract shall be paid in Ngultrums (Nu.)

This Bid and your written acceptance of it shall constitute a binding Contract between us. We understand that you are not bound to accept the lowest or any Bid you receive.

We hereby confirm that this Bid complies with the Bid validity and Bid Security required by the bidding documents and specified in the Bidding Data.

Authorized Signature: .....

**(Affix Legal Stamp)**

Name and Title of Signatory: .....

Name of Bidder: .....

Address: .....

# Standard Form: Qualification Information

*Notes on Form of Qualification Information: The following information is to be filled in by bidders which will be used for purposes of evaluation*

## 1. Individual bidders

1.1 Constitution of legal status of Bidder [attach copy]

Place of registration:

---

Principal place of business:

---

Power of attorney of signatory of Bid [attach]

1.2 Qualifications and experience of key personnel proposed for administration and execution of the Contract. Refer BDS. The supporting documents such detailed CVs signed in original supported by certificates for qualification and experience.

Position	Name	Qualification & year of experience (general)	Year of experience in proposed position	Remarks
Site Supervisor				

# Standard Form: Letter of Intent

*(Letterhead paper of the Employer)*

## Notes on standard form of letter of Intent

*This issuance of Letter of Intent (always before letter of acceptance) is the information of the selection of the bid of the successful bidder by the Employer and for providing information to other unsuccessful bidders who participated in the bid as regards the outcome of the procurement process*

*The Employer shall allow 10 days as described in ITB 34.2 between this letter of intent and letter of acceptance to allow aggrieved bidders to challenge your decision if they feel they have treated unfairly.*

*(Insert date)*

To:-----[Name and address of the Contractor]

This is to notify you that, it is our intention to award the contract for your Bid dated-----  
---[Insert date] for execution of the-----  
-----[Insert name of the contract and identification number, as given in the BDS/SCC] for  
the Contract Price of-----  
-----[Insert amount in figure and words and name of currency] as corrected and modified[if  
any corrections] in accordance with the Instructions to Bidders.

Authorized Signature: -----

Name and Title of Signatory:-----

Name of Agency:-----

CC:

[Insert name and address of all other bidders who submitted the bid]

# Standard Form: Letter of Acceptance

[letterhead paper of the Employer]

*Notes on Standard Form of Letter of Acceptance*

*The Letter of Acceptance will be the basis for formation of the Contract as described in Clauses 31 and 32 of the Instructions to Bidders. This Standard Form of Letter of Acceptance should be filled in and sent to the successful Bidder only after evaluation of bids has been completed.*

[date] \_\_\_\_\_

To: \_\_\_\_\_

[name of the Contractor]

\_\_\_\_\_  
[address of the Contractor]

This is to notify that your Bid dated \_\_\_\_\_ for the execution of the contract for the construction of “\_\_\_\_\_” for the Contract Price \_\_\_\_\_ [amount in numbers] \_\_\_\_\_ [amount in words] \_\_\_\_\_ [name of currency], as corrected and modified in accordance with the Instructions to Bidders is hereby accepted by our Agency. The start date of the project is \_\_\_\_\_. The completion date for whole of the works shall be \_\_\_\_\_.

You are hereby instructed to proceed with the execution of the said Works in accordance with the Contract documents.

Authorized Signature:

\_\_\_\_\_

Name and Title of Signatory:

\_\_\_\_\_

Name of Agency:

\_\_\_\_\_

Attachment: Agreement

# Bank Guarantee for Bid Security

*[this is the format for the Bid Security to be issued by a financial institutions in Bhutan in accordance with ITB Clause 19]*

Invitation for Bid No:

Date:

Bid Package No:

To:

[Name and address of Employer]

## TENDER GUARANTEE No:

We have been informed that *[name of Bidder]* (hereinafter called “the Bidder”) intends to submit to you its Bid dated *[date of bid]* (hereinafter called “the Tender”) for the execution of the Works of *[description of works]* under the above Invitation for Bids (hereinafter called “the IFB”).

Furthermore, we understand that, according to your conditions Bids must be supported by a Bid Guarantee.

At the request of the Bidder, we *[name of bank]* hereby irrevocably undertake to pay you, without cavil or argument, any sum or sums not exceeding in total an amount of Nu *[insert amount in figures and words]* upon receipt by us of your first written demand accompanied by a written statement that the Bidder is in breach of its obligation(s) under the Bid conditions, because the Bidder:

- (a) has withdrawn its Bids during the period of Bid validity specified by the Bidder in the Form of Bid; or
- (b) does not accept the correction of errors in accordance with the Instructions to Bidders ITB; or
- (c) having been notified of the acceptance of the Bid by the Employer during the period of Bid validity, (i) fails or refuses to furnish the performance security in accordance with the ITT, or (ii) fails or refuses to execute the Contract Form,

This guarantee will expire

- (a) if the Bidder is the successful Bidder, upon our receipt of a copy of the Performance Security and a copy of the Contract signed by the Bidder as issued by you; or
- (b) if the Bidder is not the successful Bidder, thirty days after the expiration of the Bidder’s Tender validity period, being *[date of expiration of the Tender]*.

Consequently, we must receive at the above-mentioned office any demand for payment under this guarantee on or before that date.

Signature

Signature

## Section 5. General Conditions of Contract

1. Definitions
  - 1.1 The following words and expressions shall have the meaning hereby assigned to them. Boldface type is used to identify the defined terms:
    - (a) **Completion Certificate** means the Certificate issued by the Employer as evidence that the Contractor has executed the Works in all respects as per drawing, specifications, and Conditions of Contract.
    - (b) The **Completion Date** is the date of completion of the Works as certified by the Engineer, in accordance with GCC Clause 18.
    - (c) **Contract** means the Agreement entered into between the Employer and the Contractor to execute, complete and maintain the Works.
    - (d) **Contractor** means the person or corporate body whose Tender to carry out the Works has been accepted by the Employer and is named as such in the SCC.
    - (e) **Contract Price** is the price stated in the Letter of Acceptance and thereafter as adjusted in accordance with the provisions of the Contract. The **Contractor's Bid** is the completed Bid Document including the priced offer submitted by the Contractor to the Employer.
    - (f) **Days** mean calendar days.
    - (g) A **Defect** is any part of the Works not completed in accordance with the Contract.
    - (h) The **Employer** is the party named in the SCC who employs the Contractor to carry out the Works.
    - (i) The **Engineer** is the person named in the SCC, who is responsible for supervising the execution of the works and administering the Contract.
    - (j) The **Intended Completion Date** is the date specified in the SCC on which the Contractor shall complete the Works and may be revised if extension of time or an acceleration order is issued by the Engineer.
    - (k) The **Site** is the area defined as such in the SCC.
    - (l) The **Works** are what the Contract requires the Contractor to construct, install, and hand over to the Employer, as defined in the SCC.
2. Interpretation & Documents forming the Contract
  - 2.1 In interpreting the GCC, singular also means plural, male also means female or neuter, and the other way around. Headings in the GCC shall not be deemed part thereof or be taken into consideration in the interpretation or construance of the Contract. Words have their normal meaning under the language of the Contract unless specifically defined.
  - 2.2 The following documents forming the Contract shall be interpreted

in the following order of priority:

- (a) the signed Contract Agreement.
- (b) the letter of Notification of Award.
- (c) the completed Bid form as submitted by the Bidder.
- (d) the Special Conditions of Contract.
- (e) the General Conditions of Contract.
- (f) Specifications
- (g) the Drawings.
- (h) any other document listed in the PCC as forming part of the Contract.

3. Corrupt,  
Fraudulent,  
Collusive or  
Coercive Practices

3.1 The Government requires that Employers, as well as Contractors shall observe the highest standard of ethics during the implementation of procurement proceedings and the execution of Contracts under public funds.

3.2 In pursuance of this requirement, the Employer shall

- (a) exclude the Contractor from participation in the procurement proceedings concerned or reject a proposal for award; and
- (b) declare a Contractor ineligible, either indefinitely or for a stated period of time, from participation in procurement proceedings under public fund;

3.3 The Government defines, for the purposes of this provision, the terms set forth below as follows:

- (a) corrupt practice”<sup>5</sup> is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value<sup>6</sup> to influence improperly the actions of another party;
- (b) “fraudulent practice”<sup>7</sup> is any intentional act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
- (c) “collusive practice”<sup>8</sup> is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party; and
- (d) “coercive practice”<sup>9</sup> is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party.

3.4 The Government requires that the Client’s personnel have an equal

obligation not to solicit, ask for and/or use coercive methods to obtain personal benefits in connection with the said proceedings.

- |  |      |   |
|--|------|---|
| 4. Governing Language and Law                          | 4.1  | The Contract as well as all correspondence and documents relating to the Contract exchanged by the Contractor and the Employer, shall be written in English unless otherwise stated in the SCC. The Contract shall be governed by and interpreted in accordance with the laws of the Kingdom of Bhutan.   |
| 5. Engineer's Decision                                 | 5.1  | Except where otherwise specifically stated in the SCC, the Engineer will decide Contractual matters between the Employer and the Contractor in the role as representative of the Employer.  |
| 6. Delegation  | 6.1  | The Engineer may delegate any of his duties and responsibilities to his representative, after notifying the Contractor, and may cancel any delegation, without retroactivity, after notifying the Contractor.   |
| 7. Communications and Notices                          | 7.1  | Communications between Parties pursuant to the Contract shall be in writing to the address specified in the SCC. A notice shall be effective when delivered or on the notice's effective date, whichever is later.  |
| 8. Sub- Contracting                                    | 8.1  | The Contractor shall not be permitted to subcontract any part of the Works in whole or in part.   |
| 9. Contractor's Personnel                              | 9.1  | The Contractor shall employ the key personnel named in the Schedule of Key Personnel, as referred to in the SCC, to carry out the functions stated in the Schedule, or other personnel approved by the Engineer.  |
| 10. Welfare of Labourers & Child Labour                | 10.1 | The Contractor shall provide proper accommodation to his labourers and arrange proper water supply, conservancy and sanitation arrangements at the site in accordance with relevant regulations, rules and orders of the government.  |
|  | 10.2 | The Contractor shall comply with the applicable minimum age, labour laws and requirements of (including applicable treaties which have been ratified by) the Government of Bhutan regarding hazardous forms of child labour.  |
| 11. Safety, Security and Protection of the Environment | 11.1 | <p>The Contractor shall throughout the execution and completion of the Works and the remedying of any defects therein :</p> <p>(a) have full regard for the safety of all persons entitled to be upon the Site and keep the Site and the Works in an orderly state;</p> <p>(b) provide and maintain at the Contractors own cost all lights, guards, fencing, warning signs and watching for the protection of the Works or for the safety on-site; and</p> <p>(c)take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of the Contractors methods of operation.</p> |
| 12. Access to the Site                                 | 12.1 | The Contractor shall allow the Engineer and any person authorised by the Engineer access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.   |

13. Documents, Information.	13.1	The Contractor shall furnish to the Engineer all information, schedules, calculations and supporting documentation that may be requested of it.
14. Property	14.1	If the contract is terminated by the Employer because of the contractors default, then, the contractor shall not be allowed to remove any materials on the Site, Plant, and Temporary Works until the matter is amicably resolved.
15. Insurance	15.1	The Contractor shall provide insurance as stated in the SCC
	15.2	The Contractor shall deliver policies and certificates of insurance to the Engineer, for the Engineer's approval, before the Start Date.
	15.3	If the Contractor does not provide any of the policies and certificates required, the Employer may effect the insurance which the Contractor should have provided and recover the premiums the Employer has paid from payments otherwise due to the Contractor or, if no payment is due, the payment of the premiums shall be a debt due.
16. Possession of the Site	16.1	The Employer shall give possession of the Site, or parts of the Site, to the Contractor on the date(s) specified in the SCC.
17. Commencement of Works	17.1	The Contractor may commence execution of the Works on the Start Date, or other such date as specified in the SCC, and shall carry out the Works in an expeditious manner.
	17.2	If the Contractor fails to commence the works within the above stated period, the Employer may, at his sole discretion, terminate the Contract and forfeit the Performance Security, if any.
18. Completion of Works	18.1	The Contractor shall complete the Works within the number of days stated in the SCC from the date of commencing the Works on the Site.
19. Programme of Works	19.1	Within the time stated in the SCC, the Contractor shall submit to the Engineer for approval a work program. The Contractor shall submit to the Engineer for approval an updated Programme at intervals no longer than the period stated in the SCC.
20. Early Warning	20.1	The Contractor shall warn the Engineer at the earliest opportunity of specific likely future events or circumstances that may adversely affect the quality of the work result in increase to the Contract Price or delay in the execution of the Works.
21. Compensation Events	21.1	The following shall be Compensation Events: <ul style="list-style-type: none"> <li>(a) the Employer does not give access to the Site or part of the Site by the Site Possession Date stated in the SCC; and</li> <li>(b) if the payment is delayed pursuant to Clause 25.1.</li> </ul>
	21.2	If a Compensation Event would prevent the work being completed before the Intended Completion Date, the Intended Completion Date shall be extended, as appropriate, by the Engineer.
22. Non-Scheduled Items of Works	22.1	The Contractor shall be paid for non-scheduled items of works only when the Engineer approves such works and at the rates and in the manner stated in the SCC.

23. Schedule of Works	23.1	The Schedule of Works will contain rates for all items for the construction including temporary works, installation, testing, and commissioning work to be done by the Contractor.
	23.2	The Contractor shall be paid for the quantity of the work done at the rate in the Contract Agreement for each item.
	23.3	The Contractor shall be entirely responsible for all taxes, duties, license fees, and other such levies imposed outside and inside Bhutan.
24. Payment Certificates	24.1	The Contractor shall submit to the Engineer monthly statements of the estimated value of the work executed less the cumulative amount certified previously. The Engineer shall check the Contractor's monthly statement and certify the amount to be paid to the Contractor.
	24.2	The value of work executed shall be determined by the Engineer.
	24.3	The value of work executed shall comprise the value of the quantities of the items in the Schedule of Works completed.
	24.4	The value of work executed shall include the valuation of Variations, Certified Day works and Compensation Events.
	24.5	The Engineer may exclude any item certified in previous certificates or reduce the proportion of any item previously certified in any certificate in the light of later information.
25. Payments and Currency	25.1	The Employer shall pay the Contractor the amounts certified by the Engineer within thirty (30) days of the date of each certificate.
	25.2	The Employer shall make Advance Payment (mobilization and secured advance) to the Contractor of the amounts and by the dates stated in the SCC against provision by the Contractor of an unconditional Bank Guarantee, (Form 4).
	25.3	The Contractor is to use the advance payment only to pay for Equipment, Plant, Materials, and mobilisation expenses required specifically for the execution of the Contract. The Contractor shall demonstrate that the advance payment has been used in this way by submitting copies of invoices or other documents to the Employer.
	25.4	The advance payment shall be repaid by deducting proportionate amounts from payments otherwise due to the Contractor, following the schedule of completed percentages of the Works on a payment basis. No account shall be taken of the advance payment or its repayment in assessing valuations of work done, variations, claims or any amount payable due to failure to complete the works.
26. Retention	26.1	The Employer shall retain from each payment due to the Contractor the proportion stated in the SCC until the completion of the whole of the Works.
	26.2	On completion of the whole of the Works, half the total amount retained shall be repaid to the Contractor, the remaining half when the Defects Liability Period has passed and the Engineer has certified that all Defects notified by the Engineer to the Contractor before the end of this period have been corrected.

27. Liquidated Damages	27.1	The Contractor shall pay liquidated damages to the Employer at the rate per day stated in the SCC for each day that the Completion Date is later than the Intended Completion date for the works or for any part thereof.
28. Performance Security	28.1	Upon Notification of Award, a Performance Security shall be provided to the Employer in the amount and form stated in the Contract Forms (Form 3). The Performance Security shall be valid until a date thirty (30) days from the date of issue of the Certificate of Completion.
29. Price Adjustment	29.1	The rates and prices in the bill of quantities are fixed for the duration of the Contract and not subject to price adjustment during the performance of the Contract.
30. Completion	30.1	The Contractor shall request the Engineer to issue a Certificate of Completion of the Works, and the Engineer will do so upon deciding that the work is substantially completed.
31. Correction of Defects	31.1	The Engineer shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at Completion, and is defined in the SCC. The Defects Liability Period shall be extended for as long as the Defects remain to be corrected.
	31.2	If the Contractor has not corrected a Defect within the time specified in the Engineer's notice, the Engineer will assess the cost of having the Defect corrected, and the Contractor will pay this amount.
32. Taking Over	32.1	The Employer shall take over the Site and the Works within seven (7) days of the Engineer issuing a Certificate of Completion.
33. Final Account	33.1	The Contractor shall supply the Engineer a detailed account of the total amount that the Contractor considers payable under the Contract. The Engineer shall certify any final payment that is due to the Contractor within twenty-one (21) days of receiving the Contractor's account if it is correct and complete.
	33.2	The Employer shall effect payment of the final account within thirty (30) days from the date of certification by the Engineer.
34. Termination	34.1	The Employer or the Contractor by giving thirty (30) days written notice of default to the other party, may terminate the Contract in whole or in part if the other party causes a fundamental breach of Contract.
	34.2	Fundamental breaches of the Contract shall include, but shall not be limited to, the following:
		<ul style="list-style-type: none"> <li>(a) the Contractor stops work for more than thirty (30) days when no stoppage of work is shown on the current Programme and the stoppage has not been authorised by the Engineer;</li> <li>(b) the Engineer gives notice that failure to correct a particular defect is a fundamental breach of Contract and the</li> </ul>

- Contractor fails to correct it within a reasonable period of time determined by the Engineer;
- (c) the Contractor has delayed the completion of the Works by the number of days for which the maximum amount of Liquidated Damages can be paid;
  - (d) the Contractor, in the judgment of the Employer, has engaged in corrupt or fraudulent practices, as defined in GCC Clause 3, in competing for or in executing the Contract; and
  - (e) a payment certified by the Engineer is not paid to the Contractor by the Employer within sixty (60) days of the date of the Engineer's certificate.
- 34.3 The Employer and the Contractor may at any time terminate the Contract by giving notice to the other party if either of the parties becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to any party provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue to the other party.
- 34.4 Notwithstanding the above, the Employer may terminate the Contract for convenience.
- 34.5 If the Contract is terminated, the Contractor is to stop work immediately, make the Site safe and secure and hand over the Site to the Employer as soon as reasonably possible.
35. Payment upon Termination
- 35.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer shall issue a certificate for the value of the work done and Plant and Materials ordered less advance payments received up to the date of the issue of the certificate and less the percentage to apply to the value of the work not completed, as indicated in the SCC.. Additional Liquidated Damages shall not apply. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be a debt payable to the Employer.
- 35.2 If the Contract is terminated for the Employer's convenience or because of a fundamental breach of Contract by the Employer, the Contractor shall be entitled to payments for completed works and the materials that have been brought to the site for the purpose of the works, but not used as certified by the Engineer after adjusting any payments received by the Contractor.
36. Release from Performance
- 36.1 If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Employer or the Contractor, the Engineer shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible, after receiving this certificate. The Contractor shall be paid for all works carried out before stoppage of work and any work carried out afterwards to which a commitment was made.
37. Force Majeure
- 37.1 For the purposes of this Contract, "Force Majeure" means an exceptional event or circumstance:
- (a) which is beyond a Party's control,
  - (b) which such Party could not reasonably have provided against before entering into the Contract,

- (c) which, having arisen, such Party could not reasonably have avoided or overcome, and
- (d) which is not substantially attributable to the other Party.

37.2 Force Majeure may include, but is not limited to, exceptional events or circumstances of the kind listed below, so long as conditions (a) to (d) above are satisfied:

- (a) war, hostilities (whether war be declared or not), invasion, act of foreign enemies,
- (b) rebellion, terrorism, sabotage by persons other than the Contractor's Personnel, revolution, insurrection, military or usurped power, or civil war,
- (c) riot, commotion, disorder, strike or lockout by persons other than the Contractor's Personnel,
- (d) munitions of war, explosive materials, ionizing radiation or contamination by radio-activity, except as may be attributable to the Contractor's use of such munitions, explosives, radiation or radio-activity, and
- (e) natural catastrophes such as earthquake, hurricane, typhoon or volcanic activity.

37.3 However, force majeure shall not include the following;

- i. rainfall
- ii. snowfall
- iii. strikes in other countries
- iv. non-availability of labourer and materials such as timbers, boulders, sand, and other materials
- v. difficulty and risky terrain and remoteness of site.

### 38. Settlement of Disputes

- 38.1 The Employer and the Contractor shall use their best efforts to settle amicably all disputes arising out of or in connection with this Contract or its interpretation.
- 38.2 Any dispute between the parties to the Contract that may not be settled amicably will be referred to Arbitration at the initiative of either of the parties.
- 38.3 The Arbitration shall be conducted in accordance with the Arbitration Rules of the Kingdom of Bhutan in force.

Section 6. Special Conditions of Contract	
Instructions for completing the Special Conditions of Contract are provided, as needed, in the notes in italics mentioned for the relevant GCC Clauses.3	
Clause Ref	Amendments of, and Supplements to, Clauses in the General Conditions of Contract
GCC 1.1(d)	The Contractor is [ <i>name: ..... Address..... and name of authorised representative.....</i> ].
GCC 1.1(i)	The Employer is: - <i>Gup, Geog Administration, Tsirangtoed Geog.</i>
GCC 1.1(j)	The Engineer is [ <i>Prem Bdr. Ghalley Dzongkhag Engineering section Tsirang-17692372</i> ]
GCC 1.1(k)	The Intended Completion Date for the whole of the Works shall be [ <i>10 months</i> ].
GCC 1.1(l)	The Site is located at [ <i>Chameray, (Connecting Vear Kuna village under Tsirangtoed Geog to Tsholingkhar High way)</i> ].
GCC 1.1(m)	The Works are [ <i>Clearing, Earth work manually, fabrication of steel parts, galvanising, launching &amp; finishing works. ]</i>
GCC 2.2(i)	The additional documents forming part of this Contract are: <ol style="list-style-type: none"> <li>1. Valid Trade Licence.</li> <li>2. Valid CDB Certificate.</li> <li>3. Valid Tax clearance.</li> </ol>
GCC 4.1	The Language governing the Contract shall be [ <i>English.</i> ]
GCC 5.1	The Engineer shall obtain specific approval of the Employer before taking any of the following actions: <ul style="list-style-type: none"> <li>• Additional work</li> <li>• Change in design &amp; specification</li> <li>• Site location</li> </ul>
GCC 7.1	The addresses for Communications shall be: <u>For the Employer:</u> <i>Gup Geog Administration, Tsirangtoed Geog.</i> <u>For the Contractor:</u> .....
GCC 9.1	The Key Personnel of the Contractor are: [ <i>site supervisor</i> ]

GCC 15.1	For insurance purposes, the type of cover <del>required shall be: The contractor shall</del> be responsible for the insurance.
GCC 16.1	Possession of the site shall be within [5] days from the date of signing of the Contract.
GCC 17.1	Commencement of work shall be within 7 <i>days</i> . However, the actual start date of contract duration shall be indicated in the 'Letter of Acceptance'
GCC 18.1	Completion of works shall be within Completion of works from the date of commencing the works on the site shall be within the date as indicated in the 'Letter of Acceptance'
GCC 19.1 & 19.2	The Contractor shall submit the first work plan on the date of signing the Contract, and shall update the work plan every [2] weeks during the period of the Contract.
GCC 22.1	<i>"The rates for non-scheduled items of works shall be determined by the Engineer" &amp; should be endorsed by the GLTC MEMBERS.</i>
GCC 25.2	An advance payment of [10] % of the Contract Price will be made to the Contractor within (14) days of Contract signing date.
GCC 26.1	The Retention shall be [10] % of the Contract Price.
GCC 27.1	The liquidated damages for the whole of the Works are [0.075 %] per day. The maximum amount of liquidated damages for the whole of the Works is [10 %] percent of the initial Contract Price.
GCC 31.1	The Defects Liability Period shall be [12] ( <i>twelve months</i> ).
GCC 35.1	The percentage to apply to the value of the work not completed, representing the Employer's additional cost for completing the Works, is [20% of the value of work not completed up to a maximum of 10% of the initial contract price]
GCC 36.1	The lowest evaluated bidder whose bid is considered abnormally low or unbalanced, following prescribed evaluation procedures, the bids shall be required to provide differential security in the form of "cash warrant" in addition to performance security. The cash warrant shall be valid for at least 6 months, and thereafter can be converted into bank guarantee. The payment has to be made within 10 working days after receipt of the letter of acceptance by the bidder.
GCC 36.2	<ul style="list-style-type: none"> <li>• The winning bidder has to inform the client soon after completion of fabrication before galvanizing. The firm is allowed to proceed for galvanizing only after completion of inspection by the client.</li> <li>• The winning bidder has to inform the client when the firm complete 50% of Galvanizing before delivery of the materials to site. The steel parts will be allowed to delivered to site only after inspection is done by the client.</li> </ul>

## Section 7 – Contract Forms

This section contains forms which, once completed, will form part of the Contract. The forms for Performance Security and Advance Payment Security, when required, shall only be completed by the successful Bidder after Contract award.

<b>Contract Forms</b>	
Form	Title
Form -1	Notification of Award
Form -2	Contract Agreement
Form -3	Bank Guarantee for Performance Security
Form -4	Bank Guarantee for Advance Payment

## **Notification of Award**

Contract No:

Date:

To:

*[name and address of Contractor]*

This is to notify you that your Bid dated *[insert date]* for the execution of the Works for *[name of project / Contract]* for the Contract Price of Nu *[amount in figures and in words]*, as corrected and modified in accordance with the Instructions to bidder is hereby accepted by *[name of the Employer]*.

You are requested to proceed with the execution of the Works on the basis that this Notification of Award shall constitute the formation of a Contract, which shall become binding upon you furnishing a Performance Security within fourteen (14) days, in accordance with ITB Clause 32, and the signing the Contract Agreement within twenty-one (21) days, in accordance with ITB Clause 33.

We attach the Contract Agreement and Special Conditions of Contract for your perusal and signature.

Signed

Duly authorised to sign for and on behalf of  
*[name of Procuring Entity]*

Date:

## Contract Agreement

THIS AGREEMENT, made the [day] of [month] [year] between [name and address of Employer] (hereinafter called “the Employer”) of the one part and [name and address of Contractor] (hereinafter called “the Contractor”) of the other part.

WHEREAS, the Employer invited Tenders for certain Works, viz, [brief description of the Works] and has accepted a Tender by the Contractor for the execution of those works in the sum of Ngultrum [insert amount in figures and words], hereinafter called “the Contract Price.

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the General Conditions of Contract hereinafter referred to.
2. The documents forming the Contract shall be interpreted in the following order of priority:
  - (a) The signed Contract Agreement;
  - (b) The letter of Acceptance;
  - (c) The completed Bid form as submitted by the Bidder;
  - (d) The Special Conditions of Contract;
  - (e) The General Conditions of Contract;
  - (f) Specifications
  - (g) The Drawings; and
  - (h) Any other document listed in the SCC as forming part of the Contract..
3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and to remedy any defects therein in conformity in all respects with the provisions of the Contract.
4. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

**IN WITNESS whereof the Parties thereto have caused this Agreement to be executed in accordance with the laws of Bhutan on the day month and year first before written.**

For the Employer

For the Contractor

Signature

Print Name

Title

In the presence  
of (Name)

Address

## Bank Guarantee for Performance Security

*[this is the format for the Performance Security to be issued by any financial institute in Bhutan in accordance with ITB Clause 35]*

Contract No:

Date:

To:

[Name and address of Employer]

### PERFORMANCE GUARANTEE No:

We have been informed that *[name of Contractor]* (hereinafter called “the Contractor”) has undertaken, pursuant to Contract No *[reference number of Contract]* dated *[date of Contract]* (hereinafter called “the Contract”), the execution of works *[description of works]* under the Contract.

Furthermore, we understand that, according to your conditions, Contracts must be supported by a performance guarantee.

At the request of the Contractor, we *[name of bank]* hereby irrevocably undertake to pay you, without cavil or argument, any sum or sums not exceeding in total an amount of Nu *[insert amount in figures and in words]* upon receipt by us of your first written demand accompanied by a written statement that the Contractor is in breach of its obligation(s) under the Contract conditions, without you needing to prove or show grounds or reasons for your demand of the sum specified therein.

This guarantee is valid until *[date of validity of guarantee]*, consequently, we must receive at the above-mentioned office any demand for payment under this guarantee on or before that date.

Signature

Signature

## Bank Guarantee for mobilisation advance

*[this is the format for the Advance Payment Guarantee to be issued by a financial institutions in Bhutan in their letter pad in accordance with SCC Clause 25.2]*

Contract No:

Date:

To:

[Name and address of Employer]

### ADVANCE PAYMENT GUARANTEE No:

We have been informed that *[name of Contractor]* (hereinafter called “the Contractor”) has undertaken, pursuant to Contract No *[reference number of Contract]* dated *[date of Contract]* (hereinafter called “the Contract”), the execution of works *[description of works]* under the Contract.

Furthermore, we understand that, according to your conditions, Advance Payments must be supported by a bank guarantee.

At the request of the Contractor, we *[name of bank]* hereby irrevocably undertake to pay you, without cavil or argument, any sum or sums not exceeding in total an amount of Nu. *[insert amount in figures and in words]* upon receipt by us of your first written demand accompanied by a written statement that the Contractor is in breach of its obligation(s) under the Contract conditions, without you needing to prove or show grounds or reasons for your demand of the sum specified therein.

We further agree that no change, addition or other modification of the terms of the Contract to be performed, or of any of the Contract documents which may be made between the Employer and the Contractor, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee is valid until *[date of validity of guarantee]*, consequently, we must receive at the above-mentioned office any demand for payment under this guarantee on or before that date.

Signature

Signature

Name of work: Construction of Suspended Bridge over Chachay river at Chamerey

Dzongkhag: Tsirang Dzongkhag, Tsirangtoed Gewog.

Location : - Connecting Veerkuna village to Tsholingkhar High way

Bill of Quantities

SI No	Description of Works	Unit	Qty	Rate (figure)	Rate (words)	Amount
1	Clearing of jungle including uprooting of vegetation & tress of girth <300mm & disposal within 50m of the site.	sq.m	85.00			
2	Earth work in excavation over areas, depth >300mm, width >1.5m, area >10sq.m on plan including disposal of excavated earth within 50m lead & 1.5 lift & disposed soil to be neatly dressed on all types of soil.	cu.m	185.00			
3	Earth work in excavation over areas, depth >300mm, width >1.5m, area >10sq.m on plan including disposal of excavated earth within 50m lead & 1.5 lift & disposed soil to be neatly dressed on hard,soft and fractured rock requiring blasting.	cu.m	55.00			
4	Filling of trenches, sides of foundations etc. in layers <200mm using selected excavated earth, ramming etc. with lead 50m lead & 1.5m lift	cu.m	61.67			
5	Providing and laying reinforced cement concrete 1:2:4 with 20mm aggregates excluding the cost of centering and shuttering in foundaiton and plinth.	cu.m	13.10			
6	Providing and laying cement concrete 1:3:6 with 40mm aggregates excluding the cost of centering and shuttering in foundation and plinth	cu.m	3.15			
7	Providing and fixing centering and shuttering (formwork) including strutting, propping, etc. & removal of formwork in foundation and plinth etc.	sq.m	15.00			
8	Providing & Fixing Thermo-Mechanically Treated reinforcement bars for RCC works including cutting, bending, binding and placing in position complete as per drawing and specification provided.	Kgs	549.50			

Name of work: Construction of Suspended Bridge over Chachay river at Chamerey

Dzongkhag: Tsirang Dzongkhag, Tsirangtoed Gewog.

Location : - Connecting Veerkuna village to Tsholingkhar High way

Bill of Quantities

SI No	Description of Works	Unit	Qty	Rate (figure)	Rate (words)	Amount
9	Providing and laying Random Rubble Masonry with hard stone in foundation & plinth in cement mortar 1:4	cu.m	47.00			
10	Providing and laying Chisel Dressed Stone Masonry (CDSM) with hard stone in CSM tower in cement mortar 1:4	cu.m	3.80			
12	Providing and laying Hand packed stone filling with hard stones/broken stones inside abutment/anchorage blocks for both abutments.	cu.m	58.10			
15	Supply and Fabrication of steel structure (Trail suspended bridge of 70.00 m span) as per drawing and specification provided including cutting, hoisting, fixing & Hot dip galvanization of structural steel by 99.50% pure zinc & within a temperature range of 440-460 degree centigrade as per the specification mentioned in the flow chart (Refer clause No.---- for details)	Kgs	3494.24			
16	Supply and Providing screws, bolts, nuts, washers & spring washers as per drawing and specification provided	Kgs	93.65			
17	Providing & Fixing of galvanized wire mesh netting 10 swg of 1.30 m width 4" x 4" eye size, weight = 3kg/m as per drawing and specification provided.	sq. m	191.00			
18	Providing & supply of bulldog grips conforming to IS 2361- 1970 as per drawing and specification provided.					
	13mm dia.	pc	30.00			
	26mm dia.	pc	30.00			
	32mm dai.	pc	56.00			
19	Providing & supply of pre-stressed galvanized steel wire ropes conforming to IS 1835-1977; IS 6594-1977 & IS 9282-1979 as per drawing & specification provided.					

Name of work: Construction of Suspended Bridge over Chachay river at Chamerey

Dzongkhag: Tsirang Dzongkhag, Tsirangtoed Gewog.

Location : - Connecting Veerkuna village to Tsholingkhar High way

Bill of Quantities

SI No	Description of Works	Unit	Qty	Rate (figure)	Rate (words)	Amount
	13mm dia.	m	196.00			
	26mm dia.	m	196.00			
	32mm dia.	m	392.00			
20	Launching & hoisting of main, handrail, fixation, windties and windguy cables to required level including cutting, binding, placing & fixing of windties and bulldog grips in position complete as per drawing and specification provided.	m	70.00			
21	Erection & laying of walkway beams walkway decks, saddles and suspenders with its fittings like plates, nuts, bolts, spring washers, washers etc. including retightening of nuts & bolts after completion of bridge launching and application of grease on the threaded steel parts & placing in position complete as per drawing and specification provided.	m	70.00			
		<b>Total Amount Nu.</b>				

Amount In words: -.....

.....

.....

.....Only

**Note : -**

1. The Winning bidder has to submit the letter to client soon after completion of the fabrication of steel parts before galvanizing. The firm is allowed to proceed with the galvanizing only after completion of inspection by the client at fabrication yard.

2. The winning bidder has to inform the client when the firm completes 50% of Galvanizing before delivery of the materials to site. The steel parts will be allowed to delivered to site only after inspection is done by the client.

དཔལ་ལྷན་འབྲེག་གཞུང་། འཕམ་རྟགས་ལྷན་ཁག་། ལམ་སྲིལ་ལས་ཁུངས་། རམ་གྲེ་ཆོན་།

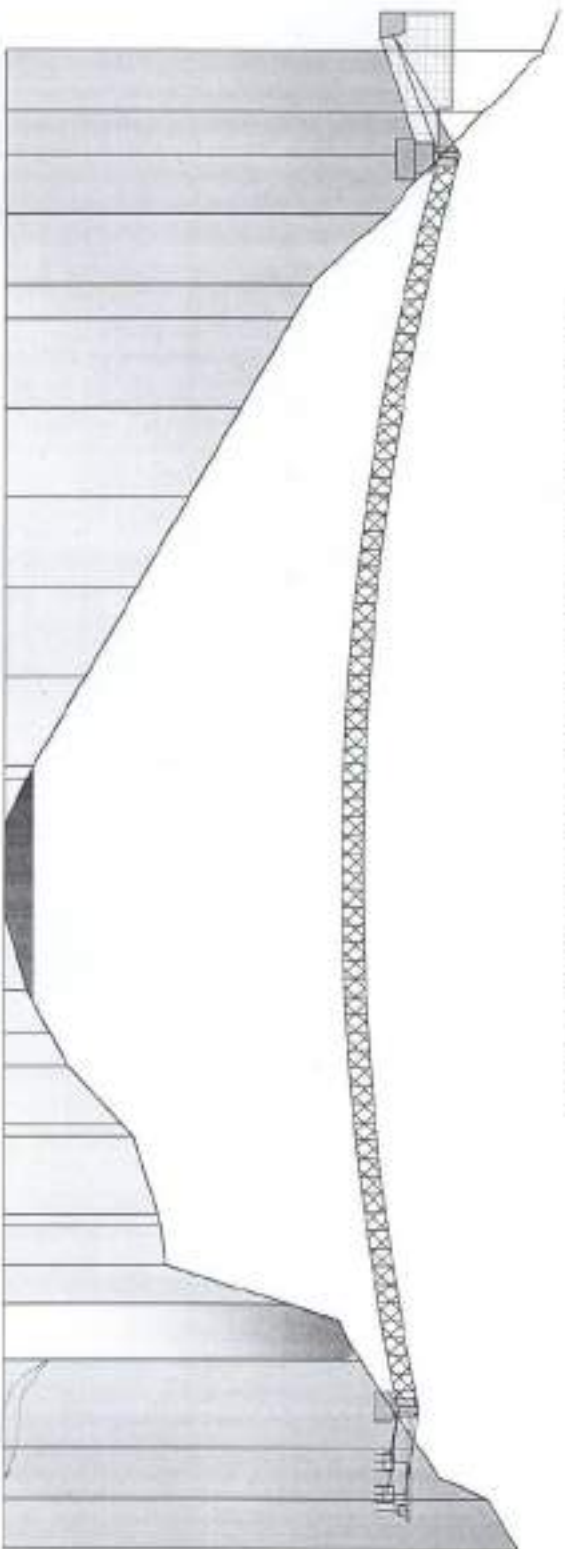


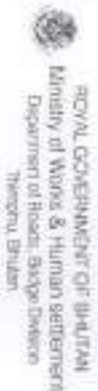
Royal Government of Bhutan  
Ministry of Works & Human Settlement  
Department of Roads  
Bridge Division  
Thimphu: Bhutan

*"Construction Industry: Solutions through innovation and improved technology"*



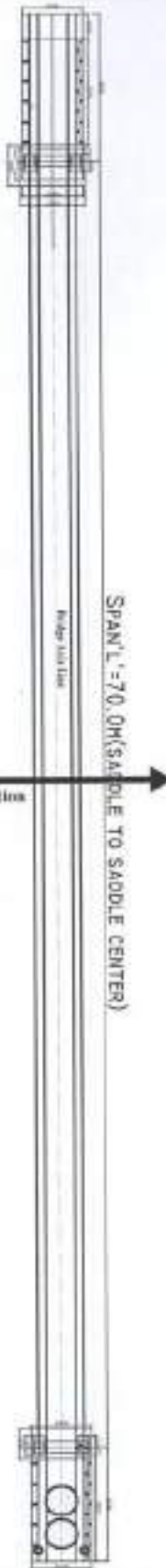
CONSTRUCTION OF 70.0M SPAN CHAMERAY SHORT SPAN TRAI BRIDGE(INCLINED)  
OVER CHAMERAY CHU UNDER TSIRANG DZONGKHAG



[illegible]

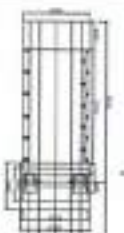
SMALL COPIES -  
GENERAL  
PLAN

REVISION	DATE	NAME & SIGNATURE	DISBURSED NO.
△ FIRST ISSUE	OCT. 2011	SHOSH DEALON	2018-11-SD-01
		CELESTED	SC-01C R70
		APPROVED	by Stamp At the



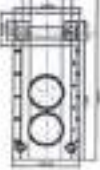
ARIAL PLAN

 ROYAL GOVERNMENT OF PAKISTAN Ministry of Works & Human Settlement Government of Punjab, Design Division Ferozpur, Pakistan		CHAMBERLY INCLINED SHORT SPAN TRAIL BRIDGE (SBTB) OVER CHAMBERLY CHU UNDER TSPRWD CONCRETING		SHEET CONTENTS	
REVISION	DATE	TITLE & DESCRIPTION		DRAWING NO.	
1. FIRST ISSUE	OCT. 2018	DESIGN	CHAMBERLY INCLINED SHORT SPAN TRAIL BRIDGE (SBTB) OVER CHAMBERLY CHU UNDER TSPRWD CONCRETING	2018-11-SD-02	
		CHECKED	DATE	SCALE	
		APPROVED	DATE	(in Sheet A1 size)	



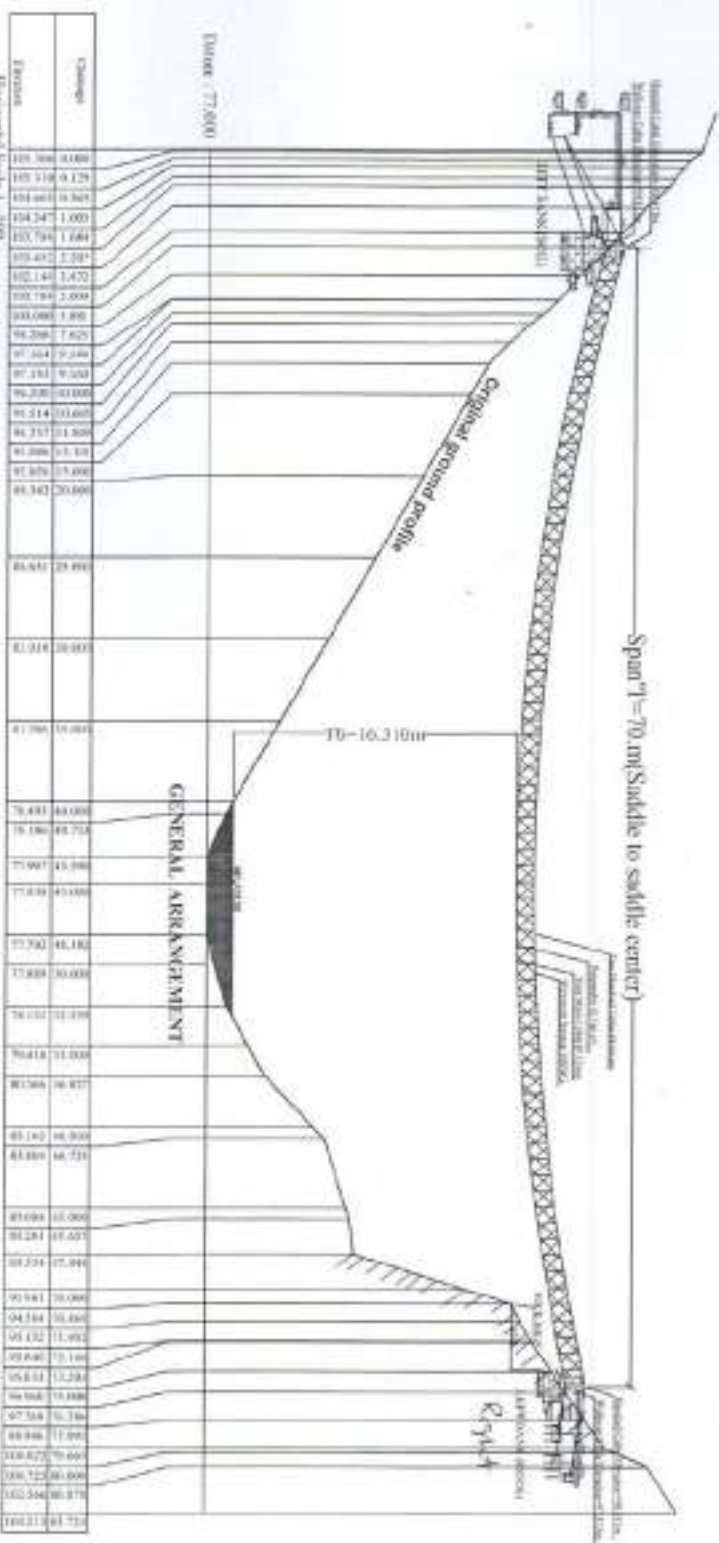
SPAN L = 70.0m (SADDLE TO SADDLE CENTER)

Asp. Pav. Lanes



ARIAL PLAN

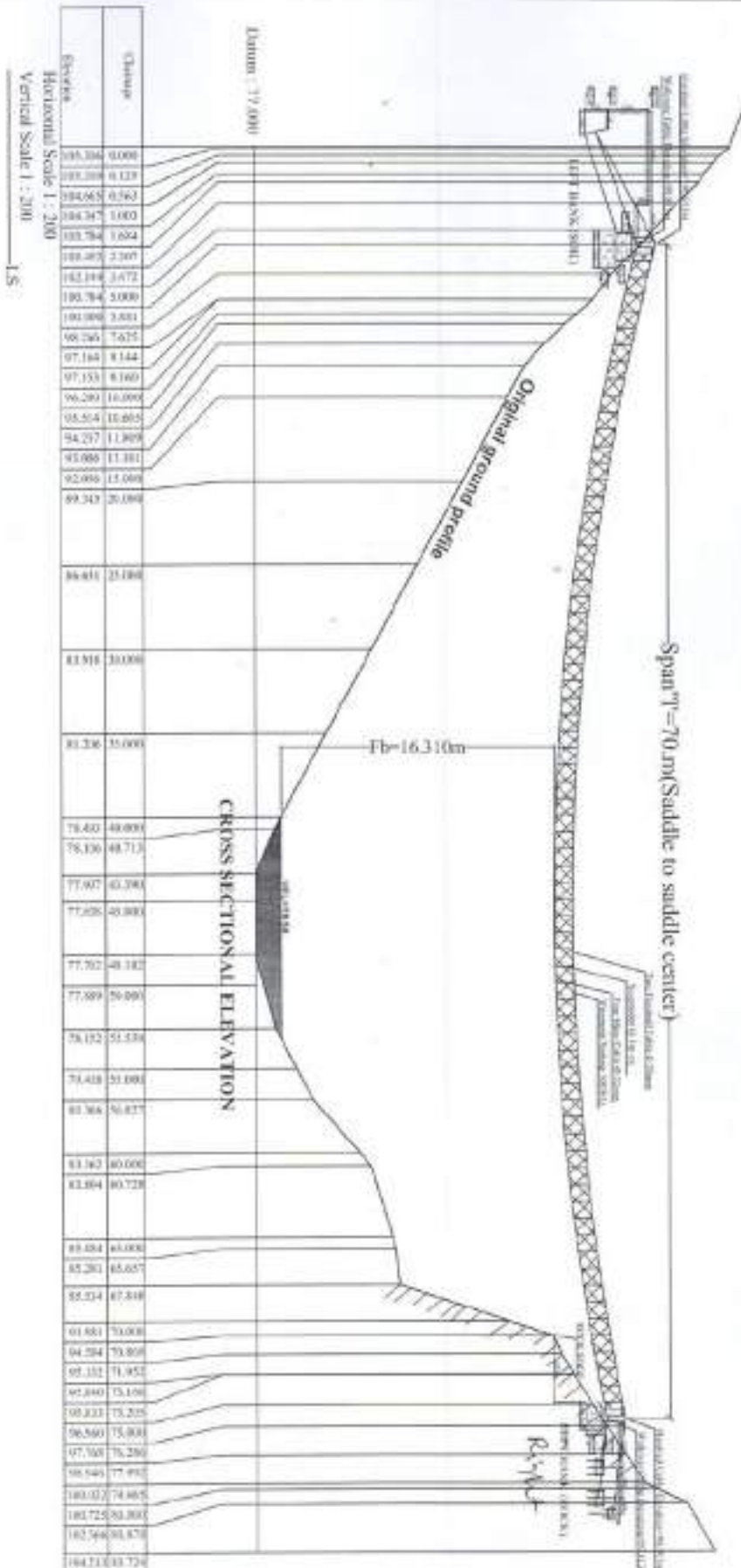
Flow Direction



ROYAL GOVERNMENT OF BHUTAN  
Ministry of Works & Human Settlement  
Department of Roads, Bridge Division  
Thimphu, Bhutan

CHAMBERAY JOINTED SPURR SPAN TRAIL BRIDGE (EXISTING)  
OVER CHAMBERAY CHU UNDER TSIRANG DZONGKHAG

SHEET CONTENTS:		REVISION	DATE	NAME & SIGNATURE	DRAWING NO.
GENERAL ELEVATION	1	REVISION	OCT 2018	DR. J. K. S. S. S.	2018-11-SD-03
		CHECKED			SCALE: 1:50
		APPROVED			(or Stamp at last)



ROYAL GOVERNMENT OF BHUTAN Ministry of Works & Housing Department of Roads & Bridges Division Thimphu, Bhutan		CHAUNREY INCISED SHORT SPAN TRAIL BRIDGE (SSTB) OVER CHAUNREY CHU UNDER DAGANA DZONGKHAG		SHEET CONTENTS: CROSS SECTIONAL ELEVATION	
REVISION	DATE	NAME & SIGNATURE		DRAWING NO.	
1. FIRST ISSUE	OCT 2018	DESIGN		2018-II-SD-04	
		CHECKED		SCALE 1:50	
		APPROVED		(As Sheet 01 of 01)	





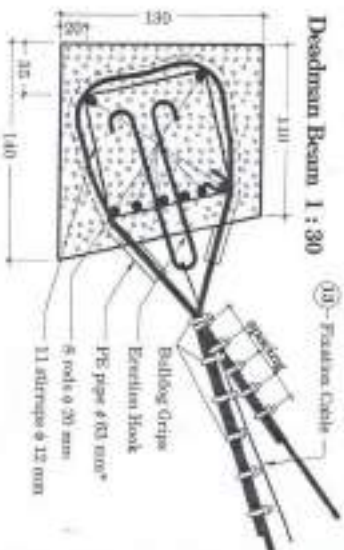
## GENERAL NOTES FOR ABUTMENT CONSTRUCTION:

1. For the construction of Left and Right bank abutment, refer drawing number 2018-II-SD-05 and 2018-II-06 and 47Dcon for left banks and 62Dcon for right bank.
2. The foundation depth should be excavate as per our design drawings provided from existing ground level.
3. The left abutment is designed for soil and right abutment is designed for rock.

 ROYAL GOVERNMENT OF BHUTAN Ministry of Works & Transport Department of Roads, Bridge Division Thimphu, Bhutan	CHAUMERY INCLINED SHORT SPAN TRAIL BRIDGE (SS78) OVER CHAUMERY CMU UNDER TSKANG DZONGKANG	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left; padding: 2px;">SHEET CONTENTS:</th> <th style="text-align: left; padding: 2px;">REVISION</th> <th style="text-align: left; padding: 2px;">DATE</th> <th style="text-align: left; padding: 2px;">NAME &amp; SIGNATURE</th> <th style="text-align: left; padding: 2px;">DRAWING NO.</th> </tr> <tr> <td style="text-align: center; padding: 2px;">A.</td> <td style="text-align: center; padding: 2px;">FIRST ISSUE</td> <td style="text-align: center; padding: 2px;">OCT, 2018</td> <td style="text-align: center; padding: 2px;">DESIGN</td> <td style="text-align: center; padding: 2px;">   <small>DESIGN ONLY (ISSUED FOR CONSTRUCTION)</small> </td> <td style="text-align: center; padding: 2px;">2018-II-SD-07</td> </tr> <tr> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: center; padding: 2px;">CHECKED</td> <td style="text-align: center; padding: 2px;">   <small>CHECKED ONLY (ISSUED FOR CONSTRUCTION)</small> </td> <td style="text-align: center; padding: 2px;">SCALE 1:40</td> </tr> <tr> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: center; padding: 2px;"></td> <td style="text-align: center; padding: 2px;">APPROVED</td> <td style="text-align: center; padding: 2px;">   <small>APPROVED ONLY (ISSUED FOR CONSTRUCTION)</small> </td> <td style="text-align: center; padding: 2px;">SHEET 11 OF 11</td> </tr> </table>	SHEET CONTENTS:		REVISION	DATE	NAME & SIGNATURE	DRAWING NO.	A.	FIRST ISSUE	OCT, 2018	DESIGN	 <small>DESIGN ONLY (ISSUED FOR CONSTRUCTION)</small>	2018-II-SD-07				CHECKED	 <small>CHECKED ONLY (ISSUED FOR CONSTRUCTION)</small>	SCALE 1:40				APPROVED	 <small>APPROVED ONLY (ISSUED FOR CONSTRUCTION)</small>	SHEET 11 OF 11
SHEET CONTENTS:		REVISION	DATE	NAME & SIGNATURE	DRAWING NO.																					
A.	FIRST ISSUE	OCT, 2018	DESIGN	 <small>DESIGN ONLY (ISSUED FOR CONSTRUCTION)</small>	2018-II-SD-07																					
			CHECKED	 <small>CHECKED ONLY (ISSUED FOR CONSTRUCTION)</small>	SCALE 1:40																					
			APPROVED	 <small>APPROVED ONLY (ISSUED FOR CONSTRUCTION)</small>	SHEET 11 OF 11																					

## Front-End-End

For CSN Tower see Drawing No. 1000000000 or 2000000000



**Hot-Dipped Steel  
Flashing in a  
Zn/DI**

<sup>a</sup>6 mm of PZB pipes,  $\Phi 0.3$  mm, 3.5 m length per cable coil

FIRM / FIRMITY of Local Development  
 DALLAS / Short-Span Truss Bridge Standard  
 Bridge Series / Approx. 140 ft  
 For 2017-17    Scale: 1" = 10' / 1/4" = 1'    Span: 70 ft 0 in  
 Construction Drawing

[illegible]



Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
1	Plate 100/300/10 Rd-Bar $\phi 16$ L = 220	2		2.35	4.708
2	Plate 100/200/10 Rd-Bar $\phi 16$ L = 220	2		2.50	5.008
3	Angle (square) 40/40/5 L = 1250	1		0.35	2.108
4	Hex bolt M12 - 40	4		0.065	0.26
5	Hex nut M12	4		0.015	0.06
6	Rd-Bar $\phi 16$ L = 1650	4		2.61	10.448
7	Rd-Bar $\phi 6$ L = 320	10		0.07	0.708
8	Rd-Bar $\phi 16$ L = 2200	2		2.61	5.22
9	Bulldog Grip $\phi 20$	2		1.16	2.32
10	Main Rod $\phi 20$ L = 3100	4		7.96	31.84
11	Rd-Bar $\phi 20$ L = 2500	8		7.16	57.288
12	Rd-Bar $\phi 12$ L = 3350	11		2.96	32.568

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
13	$\phi 13$	12		0.28	3.36
14	$\phi 16$	12		0.36	4.32
15	Bulldog Grip $\phi 20$	2		1.16	2.32
16	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
17	$\phi 13$	12		0.28	3.36
18	$\phi 16$	12		0.36	4.32
19	Bulldog Grip $\phi 20$	2		1.16	2.32
20	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
21	$\phi 13$	12		0.28	3.36
22	$\phi 16$	12		0.36	4.32
23	Bulldog Grip $\phi 20$	2		1.16	2.32
24	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
25	$\phi 13$	12		0.28	3.36
26	$\phi 16$	12		0.36	4.32
27	Bulldog Grip $\phi 20$	2		1.16	2.32
28	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
29	$\phi 13$	12		0.28	3.36
30	$\phi 16$	12		0.36	4.32
31	Bulldog Grip $\phi 20$	2		1.16	2.32
32	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
33	$\phi 13$	12		0.28	3.36
34	$\phi 16$	12		0.36	4.32
35	Bulldog Grip $\phi 20$	2		1.16	2.32
36	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
37	$\phi 13$	12		0.28	3.36
38	$\phi 16$	12		0.36	4.32
39	Bulldog Grip $\phi 20$	2		1.16	2.32
40	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
41	$\phi 13$	12		0.28	3.36
42	$\phi 16$	12		0.36	4.32
43	Bulldog Grip $\phi 20$	2		1.16	2.32
44	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
45	$\phi 13$	12		0.28	3.36
46	$\phi 16$	12		0.36	4.32
47	Bulldog Grip $\phi 20$	2		1.16	2.32
48	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
49	$\phi 13$	12		0.28	3.36
50	$\phi 16$	12		0.36	4.32
51	Bulldog Grip $\phi 20$	2		1.16	2.32
52	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
53	$\phi 13$	12		0.28	3.36
54	$\phi 16$	12		0.36	4.32
55	Bulldog Grip $\phi 20$	2		1.16	2.32
56	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
57	$\phi 13$	12		0.28	3.36
58	$\phi 16$	12		0.36	4.32
59	Bulldog Grip $\phi 20$	2		1.16	2.32
60	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
61	$\phi 13$	12		0.28	3.36
62	$\phi 16$	12		0.36	4.32
63	Bulldog Grip $\phi 20$	2		1.16	2.32
64	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
65	$\phi 13$	12		0.28	3.36
66	$\phi 16$	12		0.36	4.32
67	Bulldog Grip $\phi 20$	2		1.16	2.32
68	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
69	$\phi 13$	12		0.28	3.36
70	$\phi 16$	12		0.36	4.32
71	Bulldog Grip $\phi 20$	2		1.16	2.32
72	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
73	$\phi 13$	12		0.28	3.36
74	$\phi 16$	12		0.36	4.32
75	Bulldog Grip $\phi 20$	2		1.16	2.32
76	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
77	$\phi 13$	12		0.28	3.36
78	$\phi 16$	12		0.36	4.32
79	Bulldog Grip $\phi 20$	2		1.16	2.32
80	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
81	$\phi 13$	12		0.28	3.36
82	$\phi 16$	12		0.36	4.32
83	Bulldog Grip $\phi 20$	2		1.16	2.32
84	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
85	$\phi 13$	12		0.28	3.36
86	$\phi 16$	12		0.36	4.32
87	Bulldog Grip $\phi 20$	2		1.16	2.32
88	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
89	$\phi 13$	12		0.28	3.36
90	$\phi 16$	12		0.36	4.32
91	Bulldog Grip $\phi 20$	2		1.16	2.32
92	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
93	$\phi 13$	12		0.28	3.36
94	$\phi 16$	12		0.36	4.32
95	Bulldog Grip $\phi 20$	2		1.16	2.32
96	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
97	$\phi 13$	12		0.28	3.36
98	$\phi 16$	12		0.36	4.32
99	Bulldog Grip $\phi 20$	2		1.16	2.32
100	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
101	$\phi 13$	12		0.28	3.36
102	$\phi 16$	12		0.36	4.32
103	Bulldog Grip $\phi 20$	2		1.16	2.32
104	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
105	$\phi 13$	12		0.28	3.36
106	$\phi 16$	12		0.36	4.32
107	Bulldog Grip $\phi 20$	2		1.16	2.32
108	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
109	$\phi 13$	12		0.28	3.36
110	$\phi 16$	12		0.36	4.32
111	Bulldog Grip $\phi 20$	2		1.16	2.32
112	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
113	$\phi 13$	12		0.28	3.36
114	$\phi 16$	12		0.36	4.32
115	Bulldog Grip $\phi 20$	2		1.16	2.32
116	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
117	$\phi 13$	12		0.28	3.36
118	$\phi 16$	12		0.36	4.32
119	Bulldog Grip $\phi 20$	2		1.16	2.32
120	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
121	$\phi 13$	12		0.28	3.36
122	$\phi 16$	12		0.36	4.32
123	Bulldog Grip $\phi 20$	2		1.16	2.32
124	$\phi 13$ - 36m	1		1.60	1.60

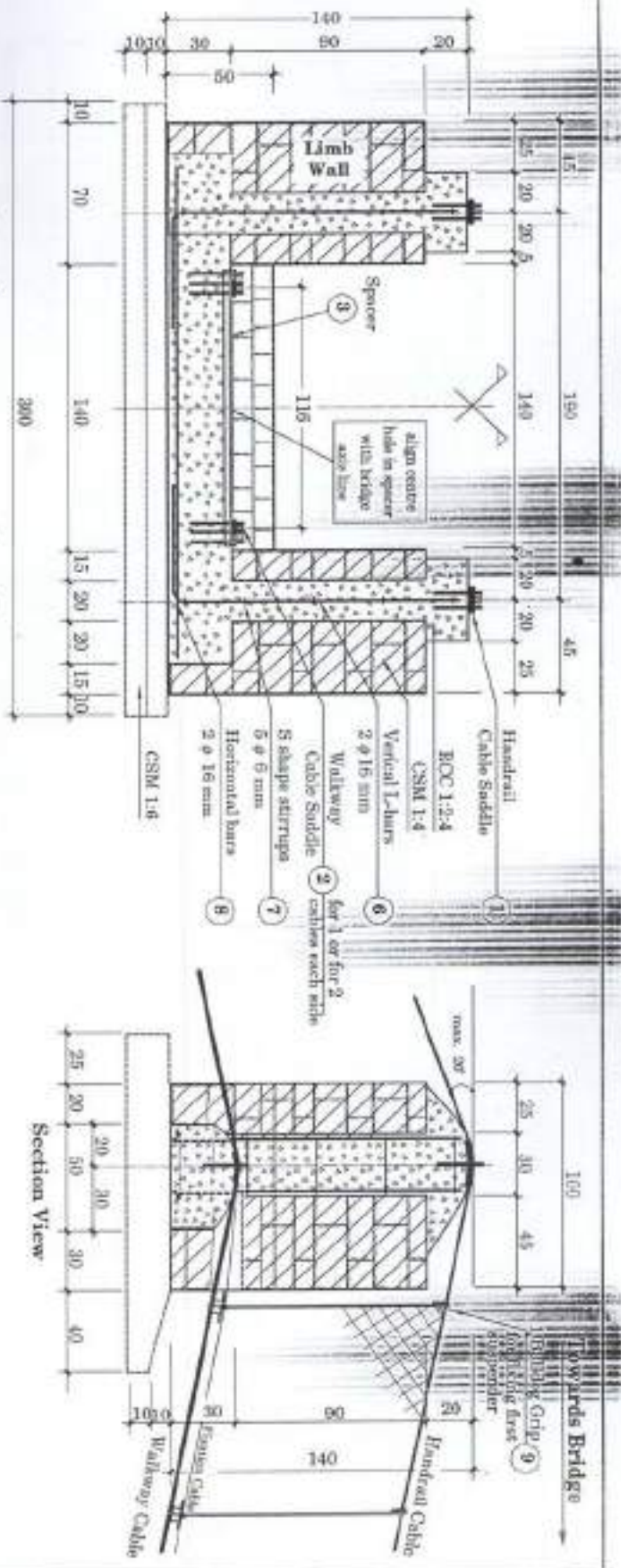
  

Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg)	Weight (kg)
125	$\phi 13$	12		0.28	3.36
126	$\phi 16$	12		0.36	4.32
127	Bulldog Grip $\phi 20$	2		1.16	2.32
128	$\phi 13$ - 36m	1		1.60	1.60

Part No.	Section (mm)	Quantity
----------	--------------	----------





**Standard Quantities**

Cement Stone Masonry & Concrete Work	[m <sup>3</sup> ]	Cement bags/ton	bags
Chisel dressed Stone Masonry 1:4	1.90	2.28	4.33
Concrete 1:2:4	0.46	6.40	2.91

Related Steel Drawing is 20D2, 20D4, 20D4S, 60D2 or 60D4

**Scale 1 : 20**  
 All Dimensions are in Centimeter

HMG / Ministry of Local Development  
 DELDAR / Short Span Trail Bridge Standard  
 Bridge Name C-11140 (C-11)  
 No. 2 C-115 - C-11  
 Construction Drawing

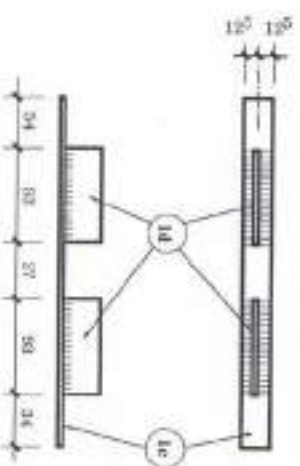
**Details of CSM Tower & RCC Core for 106 cm Walkway Width**

Date : Nov. 05, 2000 Drawing No. 20D1009

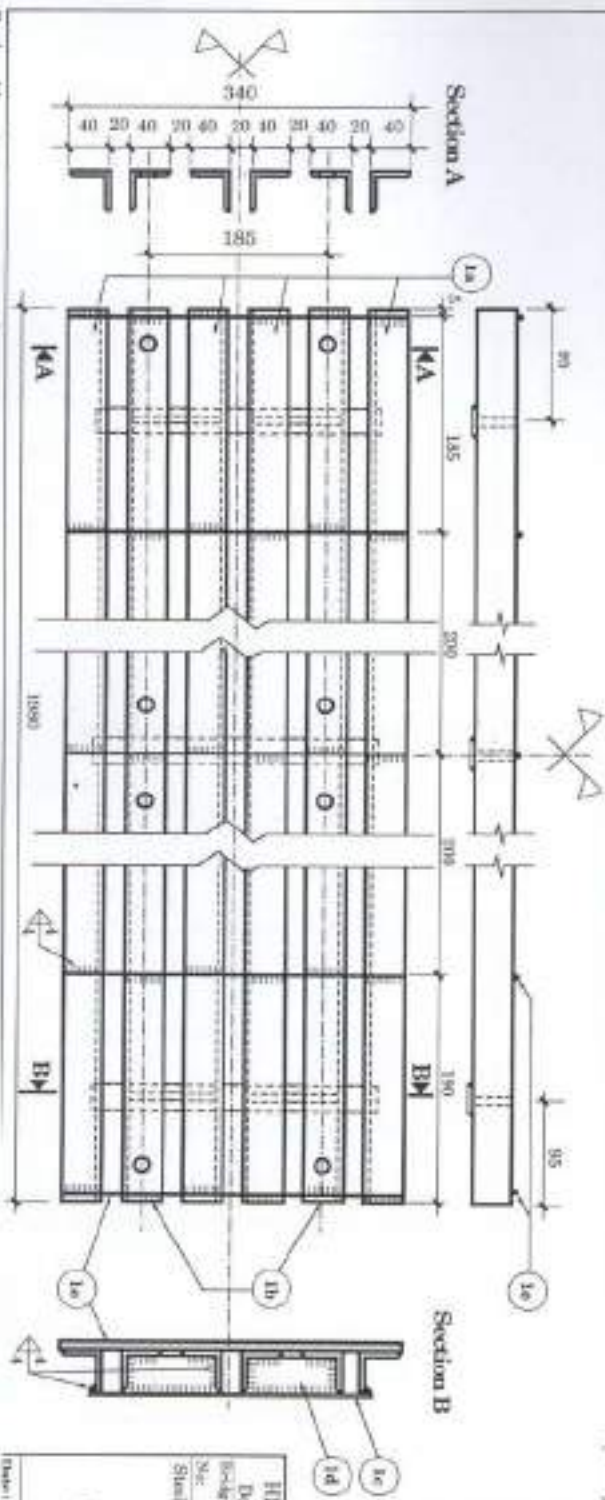
Part No.	Section (mm)	Quantity (nos)	Working Drawing	Weight (kg/pc)	Weight (kg)
a	Angle 40x40x3 -1500	4		3.64	14.56
b	Angle 40x40x3 -1880 Hot rolled ref. to IS 811 and 818	2		3.64	7.28
c	Flat 25x3 l = 281	3		0.105	0.30
d	Flat 37x3 l = 90	8		0.078	0.47
e	RI - Bar ø 8 - 340	11		0.134	1.47
Total Transportation Weight = 25.23 kg				Total Structural Steel = Steel to be galvanized : 24.28	

Specification of steel must comply with:  
 All structural steel must comply with:  
 IS 226 (1975) for structural steel  
 IS 800 (1983) for general construction in steel  
 All heavy sections are to be galvanized off -  
 before galvanization.  
 All stockpiles must be hot dip galvanized in: IS 2063 & 2063, min thickness = 80 µm  
 For obtaining uniformity, the use  
 of templates and jigs is mandatory

### Welding Detail of Part no. 1c & 1d



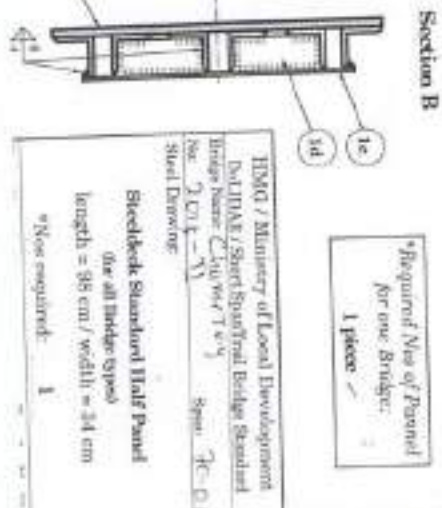
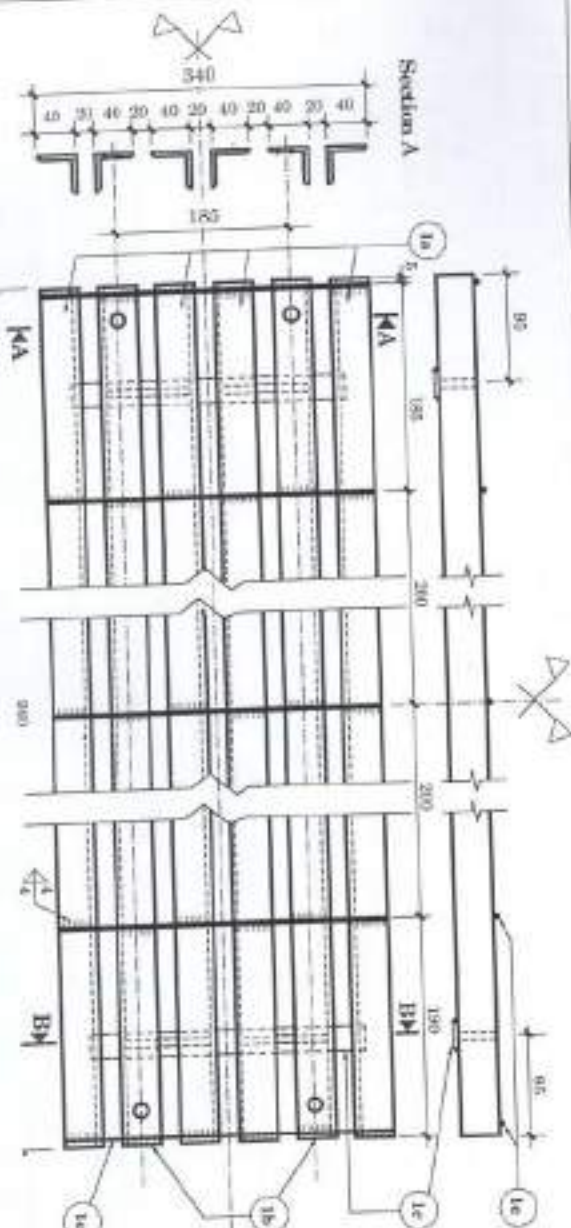
*Required Nos of Pannels in (m)	
70 cm walkway	= Spans - 1.20
106 cm walkway	= for D - Type = 1.5 x (Spans - 1.20)
106 cm walkway	= for N - Type = 1.5 x (Spans - 2.80)



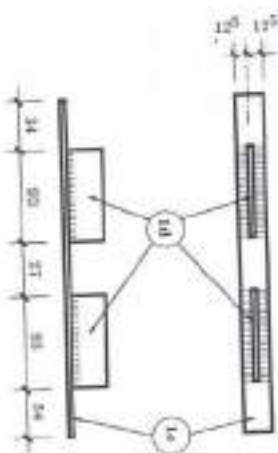
HMD / Ministry of Local Development  
 DOLDAE / Short Span Trail Bridges Standard  
 Bridge Name: Chavara Trail  
 Scale: 2:1 (1:1) - T1  
 Date: 14/11/2019  
 Steel Drawing  
 Stockpile Standard Panel  
 Use at Bridge type  
 Length = 198 cm / width = 34 cm  
 \*Note required: 1 @ 1



Part No.	Section	Quantity	Working Drawing	Weight
a	Angle 40x40x3 -2800	4		1.80 7.20
b	Angle 40x40x3 -2800	2		1.80 3.60
c	Flat 25x3 1 = 281	2		0.165 0.33
d	Flat 37x3 1 = 399	4		0.078 0.31
e	H-B Bar 68 - 340	6		0.134 0.80
Total Transportation Weight = 12.71 kg				
Total Structural Steel = Steel to be galvanized :				12.24



### Welding Detail of Part no 1c & 1d



Steel sections shall comply with:  
 All structural steel shall comply with:  
 IS 226 - 1975 for structural steel  
 IS 200 - 1961 for general construction (to steel)  
 All sharp corners are to be grinded off  
 before galvanization.  
 All standards must be met the galvanized steel:  
 IS 9029 & 26530, min thickness = 50 µm  
 For fabrication, the use  
 of templates and jigs is mandatory

\*Required No. of Panels  
 for one Bridge:  
 1 piece

HNDG / Ministry of Local Development  
 DHDH / Steel Structural Bridge Standard  
 Bridge No. C-10, Vol. 7 of 7  
 Rev. 2 of 1 - 11  
 Steel Drawing:  
 Steel Deck Standard Half Panel  
 (for all bridge types)  
 length = 95 cm / width = 34 cm  
 \*Note required: 1

