

STANDARD BIDDING DOCUMENT

Procurement of Small Works

GEWOG ADMINISTRATION SEMJONG

TSIRANG DZONGKHAG



**NAME OF WORK: CONSTRUCTION OF HINDU LHAKHANG
AT SEMJONG GEOG.**

Tender Sale : From 11.04.2018 To 10.05.2018

	Date & Time	Place
Bid Submission	10.05.18', Before 10.00 AM	GEWOG OFFICE, SEMJONG.
Bid Opening	10.05.2018, at 10.30 AM	GEWOG GUP OFFICE.



**GEWOG ADMINISTRATION
SHEMJONG
TSIRANG DZONGKHAG**



Ref.No.GA/Semjong-14/2017-2018/ 270

April 12, 2018.

Invitation of Bids(open bidding)

The Gewog Administration, Semjong now invites sealed Bids from eligible and qualified Bidders for execution of following works.

Sl No	Name of works	Estimated Cost (Nu. in millions)	Contractor Category	Contract Duration
1	Construction of Hindu Lhakhang under Semjong Geog.	1.901	W3 (Small)	7.00 Months

1. Bidding will be conducted through the open National 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 w.e.f 11.04.2018 till 10.05.2018. Bids must be delivered to the office of the Gup Shemjong Gewog on or before 10.00 AM on 10.05.2018. 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 in Gup's Office, Shemjong Gewog on 10.05.2018 at 10.30AM.
3. All Bids shall be accompanied by a Bid Security of Nu. 35,000.00 drawn in favour of Gup, Gewog Administration Semjong, under Tsirang Dzongkhag. Bid Security 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.


(Deo Bdi. Monger) ལྷོ་བདེ་མོང་གི་
Offg.Gup, Semjong ལྷོ་བདེ་མོང་གི་
ལྷོ་བདེ་མོང་གི་ ལྷོ་བདེ་མོང་གི་

Copy to:

1. Dasho Dzongdag, Dzongkhag Administration, Tsirang, for kind Information,
2. Dzongkhag Engineer, Dzongkhag Administration, Tsirang for information,
3. Accounts Officer, Dzongkhag Administration, Tsirang for information,
4. ICT Officer, Dzongkhag Administration, Tsirang to upload in Tsirang Dzongkhag website,
5. Dzongkhag Cultural Officer, Dzongkhag Administration, Tsirang for information,
6. Office Copy.

Preface

This Standard Bidding Document for the Procurement of small works up to Nu. 4 million has been prepared by the Public Procurement Policy Division (PPPD) Ministry of Finance to be used for the Procurement of small works through National Competitive Bidding (NCB) in projects that are financed in whole or in part by the Royal Government of Bhutan (RGoB). It should be used in conjunction with the Procurement Rules and Regulations.

Those wishing to submit comments or questions on this Bidding Document or to obtain additional information on procurement under RGoB-financed projects may contact:

Public Procurement Policy Division (PPPD)
Ministry of Finance
Royal Government of Bhutan
pppd@mof.gov.bt

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Section 1: Instructions to Bidder (ITB)

A. General

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|----|-----------------|-----|---|
| 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; <ul style="list-style-type: none"> (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**”¹ 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**”² 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**”³ 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**”⁴ 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 **specified in the BDS** are eligible to participate in this bidding process.
- 3.2 The Employer shall invite Bids using the Open Tendering Method (National

¹ ‘Another party’ refers to a public official acting in relation to the procurement process or contract execution.

² A ‘party’ refers to a public official; the term ‘benefit’ and ‘obligation’ relate to the procurement process or contract execution; and the ‘act or omission’ is intended to influence the procurement process or contract execution.

³ ‘parties’ refers to participations in the procurement process including public officials attempting to establish bid prices at artificial, non competitive levels.

⁴ A ‘party’ refers to a participant in the procurement in the procurement process or contract execution.

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:

PART 1 Bidding Procedures

- Section 1: Instructions to Bidders (ITB)
- Section 2: Bidding Data Sheet (BDS)
- Section 3: Evaluation and Qualification Criteria
- Section 4: Bidding forms
- Section 5: General Conditions of Contract (GCC)
- Section 6: Special Conditions of Contract (SCC)
- Section 7: Contract Forms
- Section 8: Bill of Quantities & Specifications
- Section 9: Drawings

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 **indicated in the BDS**.

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 11.1 The original and copy(ies) of Bid submitted by the Bidder shall comprise the following:
- (a) The Bid form (in the format indicated in Section IV – Forms of Bid, Qualification Information, Letter of Acceptance, and Contract);
 - (b) License and certificate
 - (c) Bid Security in accordance with Clause 19;
 - (d) Priced Bill of Quantities;
 - (e) and any other materials required to be completed and submitted by Bidders, as specified in the BDS.
- 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,
- 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 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;
- 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 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 15.1 All prices shall be quoted in Bhutanese Ngultrum (BTN) and shall be paid

	Bid and Payment		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 specified in the BDS . 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 specified in the BDS 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"> a) Unconditional Bank Guarantee; b) A demand Draft; or c) Cash Warrant
		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"> (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. (b) if the Bidder does not accept the correction of the Bid price, pursuant to clause 31; or (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.
20	Format and Signing of Bid	20.1	The Bidder shall prepare one (1) original of the documents comprising 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:
Contacting 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 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:
- (a) affects in any substantial way the scope, quality, or 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

ITB Clause	Amendment of, and Supplements to, Clauses in the Instructions to Bidders
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A. General

ITB 1.1	The Employer is [Gup, Gewog Administration Shemjong, Tsirang]
	The Name and Identification of the Contract is/are [Construction of Hindu Lhakhang under Semjong Geog.]
	The Works are [RRM foundation, conc. Brick wall, traditional cornices, PPGI Sheet Roofing etc.]

ITB 3.2	<p><i>[Choose option A or B, whichever is applicable, and delete the other option].</i></p> <p>Option A: Open Tender.</p> <p>All Bidders regardless of whether enlisted or not enlisted with the Dzongkhag may submit Bids provided they otherwise qualify.</p>
ITB 3.3	<p>The evaluation shall be based on the lowest price of the responsive bidder and the work will awarded to the lowest responsive bidder. <i>[Generally the selection is based on the lowest price. If there is a specific project need basic minimum technical qualification requirement should specified here]</i></p>
<h2>B. Bidding Documents</h2>	
ITB 7.1	<p>For clarification of Tenders purposes only, the Employer's address is:</p> <p>Attention: District Engineer/Site Engineer(Shemjong Geog)</p> <p>Address: Dzongkhag Administration, Tsirang</p> <p>Telephone: 06-471202/77419206</p> <p>Facsimile number: 06-471202</p>
<h2>C. Preparation of Bids</h2>	
ITB 15.1	<p>The Bid validity period shall be [60] days.</p> <p><i>[normally be minimum of 60 days for Works of such a simple nature]</i></p>
ITB 15.2	<p>A Bid Security in the amount of Nu. 35,000.00, will be required, in the form;</p> <ul style="list-style-type: none"> a) Unconditional Bank guarantee b) Cash warrant; or c) Demand draft
ITB 16.1	<p>A simple bar chart is <i>required or not required [delete which is not appropriate]</i></p>
ITB 19.1	<p>In addition to the original, [<i>one</i>] copies shall be submitted.</p>
<h2>D. Submission and Opening of Bids</h2>	
ITB 17.2	<p>The inner and outer envelopes shall bear the following additional identification marks:</p> <p><i>[Do not open before 10:30 am on 10.05.2018]</i></p>

ITB 17.2	For <u>Bid submission purposes</u> only, the Employer's address is: Attention: Gup Address: Gewog Administration, Shemjong The deadline for the submission of Tenders is: Time 10:00 AM, date;10.05.2018.
ITB 21.1	The Bid opening shall take place on the same day as the closing day of the bid submission at: [Gup's Office] Date: 10.05.2018 ; Time: 10:30 AM.
F. Award of Contract	
ITB 34.2	The amount of Performance Security shall be [10%] percent of the Contract Price.
ITB 34.3	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 15 working days after receipt of the letter of acceptance by the bidder. 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 less 20% of the departmentally estimated amount i.e

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 equipments) 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

Notes on Form of Bid:

The Bidder shall fill in and submit this bid form with the Bid. If Bidders do not fill in the Contract Price and does not sign this Bid form, the bids will be rejected..

[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
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 practice⁵ is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value⁶ to

⁵ "another party" refers to a public official acting in relation to the procurement process or contract execution. In this context, "public official" includes staff and employees of any organizations (including any institutions providing finance for the Works) taking or reviewing procurement decisions.

⁶ "anything of value" includes, but is not limited to, any gift, loan, fee, commission, valuable security or other asset or interest in an asset; any office, employment or contract; any payment, discharge or liquidation of any loan, obligation or other liability whatsoever, whether in whole or in part; any other services, favour or advantage, including protection from any penalty or disability incurred or apprehended or from any action or proceeding of a disciplinary or penal nature, whether or not already instituted and including the exercise or the forbearance from the exercise of any right or any official power or duty.

influence improperly the actions of another party;

(b) “fraudulent practice”⁷ 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”⁸ 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”⁹ 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.

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| 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. |

⁷ a “party” refers to a public official; the terms “benefit” and “obligation” relate to the procurement process or contract execution; and the “act or omission” is intended to influence the procurement process or contract execution.

⁸ “parties” refers to participants in the procurement process (including public officials) and an “improper purpose” includes attempting to establish bid prices at artificial, non competitive levels.

⁹ a “party” refers to a participant in the procurement process or contract execution.

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| 10. Welfare of Labourers & Child Labour | <p>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.</p> <p>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.</p> |
| 11. Safety, Security and Protection of the Environment | <p>11.1 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 | <p>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.</p> |
| 13. Documents, Information. | <p>13.1 The Contractor shall furnish to the Engineer all information, schedules, calculations and supporting documentation that may be requested of it.</p> |
| 14. Property | <p>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.</p> |
| 15. Insurance | <p>15.1 The Contractor shall provide insurance as stated in the SCC</p> <p>15.2 The Contractor shall deliver policies and certificates of insurance to the Engineer, for the Engineer's approval, before the Start Date.</p> <p>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.</p> |
| 16. Possession of the Site | <p>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.</p> |
| 17. Commencement of Works | <p>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.</p> |

	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"> (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 (b) if the payment is delayed pursuant to Clause 25.1.
	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 Dayworks 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.

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| 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:
- (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;
 - (b) the Engineer gives notice that failure to correct a particular defect is a fundamental breach of Contract and the 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	
<i>Instructions for completing the Special Conditions of Contract are provided, as needed, in the notes in italics mentioned for the relevant GCC Clauses.3</i>	
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:- Gup, Gewog Administration, Shemjong.
GCC 1.1(j)	The Engineer is [Tshering Moktan/Bhima Monger-mob-77419206/17516861].

GCC 1.1(k)	The Intended Completion Date for the whole of the Works shall be <i>[7 months]</i> .
GCC 1.1(l)	The Site is located at <i>[Below Geog Office]</i> .
GCC 1.1(m)	The Works are <i>[Construction of Hindu Lhakhang at Semjong Geog]</i>
GCC 2.2(i)	The additional documents forming part of this Contract are: <i>[if there are no additional documents state "No additional documents".]</i>
GCC 4.1	The Language governing the Contract shall be <i>[English.]</i> <i>[usually English language].</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"> • Additional work • Change in design & specification • Site location
GCC 7.1	The addresses for Communications shall be: <u>For the Employer:</u> <i>Gup, Gewog Administration, Shemjong.</i> <i>[insert name, address and contact details]</i> <u>For the Contractor:</u> <i>[insert name, address and contact details].</i>
GCC 9.1	The Key Personnel of the Contractor are: <i>[site supervisor]</i>
GCC 15.1	For insurance purposes the type of cover required shall be: The contractor shall be responsible for the insurance <i>[modify as appropriate]</i>
GCC 16.1	Possession of the site shall be within [10] days from the date of signing of the Contract.
GCC 17.1	Commencement of work shall be within 15 days . 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 [27] days after signing the Contract, and shall update the workplan every [8] weeks during the period of the Contract.
GCC 22.1	<i>[Enter here the agreed rates for non-scheduled items of work if known, if not known then make the statement "The rates for non-scheduled items of works shall be determined by the Engineer".</i>

<p>GCC 25.2</p>	<p>An advance payment of <i>[10] %</i> of the Contract Price will be made to the Contractor within (14) days of Contract signing date.</p>
<p>GCC 26.1</p>	<p>The Retention shall be <i>[10] %</i> of the Final Contract Price.</p>
<p>GCC 27.1</p>	<p>The liquidated damages for the whole of the Works are <i>[0.05 %]</i> per day. The maximum amount of liquidated damages for the whole of the Works is <i>[10 %]</i> percent of the <i>Final</i> Contract Price. <i>[usually, liquidated damages are set between 0.05 percent per day and the total amount is not to exceed 10 percent of the Final Contract Price.]</i></p>
<p>GCC 31.1</p>	<p>The Defects Liability Period shall be <i>[06]</i> (<i>six months</i>).</p>
<p>GCC 35.1</p>	<p>The percentage to apply to the value of the work not completed, representing the Employer's additional cost for completing the Works, is <i>[percent, it is generally 20% of the value of work not completed up to a maximum of 10% of the initial contract price]</i></p>
<p>GCC 36.1</p>	<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 “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 15 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 less 20% of the departmentally estimated amount i.e</p> <p>Departmental estimated = X Quoted bid price = Y</p> <p>Then, the amount to be deposited in Cash Warrant = X-Y-20% of X,</p>

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.

Contract Forms	
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

Section 8 Bill of Quantities (BOQ)

Name of Work:- Construction of Hindu Lhakhang under Semjong Gewog.
Gewog: - Semjong Gewog under Tsirang Dzongkhag.

Sl. No.	BSR Code	Description of items	Unit	Qty	Rate in Figure (Nu.)	Rate in words	Amount
1	EW0030	Earth work in excavation over areas, depth >300mm, width >1.5m, area >10 Sq. m on plan, including disposal of excavated earth within 50m lead and 1.5m lift & disposed soil to be neatly dressed Ordinary Soil(mandir, Parking Space, Prayer Hall & Kitchen cum Store)	cu.m	435			
2	EW0105	Excavation in foundation trenches or drains not exceeding 1.5m in width or area 10 sq.m on plan, including dressing & ramming, disposal of surplus soil within 50m lead & 1.5m lift -Ordinary Soil	cum	21.89			
3	SM0005	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth In cement mortar 1:4	cu.m	24.79			
4	EW0195	Filling of trenches, sides of foundations etc. in layers < 200mm using selected excavated earth, ramming etc. within lead 50 m & lift 1.5m	cu.m	6.12			
5	BW0141+ BW0152	Providing & laying Cement Concrete Brick Masonry in above plinth upto floor level 1 In cement mortar 1:4	cu.m	41.13			
6	EW0197	Providing & laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing	cu.m	14.03			

7	SM0072	Providing and laying Hand packed stone filling or soling with stones	cu.m	7.01			
8	FL0053	Pal cement concrete flooring 1:2:4, finished with floating coat of neat cement 20mm aggregates, 75mm thick	sq.m	50.49			
9	RC0019	Providing & laying in position reinforced cement concrete work in beams, lintels, bands, plain window sills, staircases, spiral staircases upto floor five level excluding the cost of centering, shuttering and reinforcement 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	7.63			
10	RC0083	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500 MPa) for R.C.C work including cutting, bending, binding and placing in position complete	kg	952.8			
11	RC0092	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork. (Lintels, beams, girders, bre summers, cantilevers etc).	sq.m	35.16			
12	WW0003	Providing & fixing in position dressed wood work in frames of doors, windows, clerestory windows and other frames, wrought and framed, Mixed Conifer.	cu.m	1.13			

13	Component	Providing & fixing window incl. 35mm thick panelled or glazed shutter with all other necessary fittings, Bhutanese painting(apply Sumdang washable painting).complete as per the drawing provided.	each	2			
14	Component	Providing and fixing timber Kachen incl. zhu, applying Bhutanese painting(Sumdang washable painting-rab).complete as per the drawing provided.					
		Type 1	each	2			
		Type 2	each	2			
15	Component	Providing & fixing door incl. 44mm thick panelled shutter with all other necessary fittings, Bhutanese painting (apply Sumdang washable painting).complete as per the drawing provided.	each	1			
16	WW0021	Providing & fixing joists, including hoisting, applying wood preservative on unexposed surfaces ,Mixed Conifer .	cu.m	1.26			
17	WW0060	Providing & fixing roof framing, in trusses, purlins, rafters, posts, post plates including hoisting, etc. (excluding steel items) ,Mixed Conifer	cu.m	5.93			

18	WW0037	Providing, making & fixing woodwork dressed in traditional cornices complete as per standard design in Mixed Conifer, including applying wood preservative on unexposed surfaces, excluding decorative painting (Measurement to be taken along the cornice and wall junction line) For single-storied structure including phana	m	49.1			
19	WW0030	Providing & fixing Eaves board (225x25mm) with moulding fitted and fixed with necessary screws, Mixed Conifer	m	70.02			
20	PT0012	Providing & applying one coat of primers .Wood work - pink primer	sq.m	17.55			
21	PT0047	Providing and applying finishing coats .Synthetic enamel, for steel & wood work, two coats on new work yellow paint)	sq.m	17.55			
22	SW0080	Providing & fixing M.S. round hold-down bolts with nuts and washer plates	kg	6.41			
23	FL0201	Providing & fixing Mixed Conifer Flooring including fixing with iron screws etc. complete, excluding the cost of frame, 25mm thick, half-lapped	sq.m	50.49			
24	RF0003	Providing & fixing Pre Painted Galvanised Steel Corrugated Roofing sheets, including bolts, hooks and nuts 8mm dia. with bitumen and G.I limpet washers filled with white lead for connection, excluding the cost of purlins, rafter and trusses. 24g.	sq.m	120.5			

25	RF0007	Providing & fixing 600mm ridges or hips in Pre Painted Galvanised Steel sheets, including bolts, hooks and nuts 8mm dia G.I limpet and bitumen washers for connection,24g.	m	43.1			
26	PL0041	Providing & laying 20mm cement plaster,C.M 1:4	sq.m	216.65			
27	PL0075	Providing & laying cement plaster, finished with floating coat of neat cement 20mm plaster in C.M 1:4	sq.m	16.86			
28	PT0020	Providing & applying white or colour washing White washing with lime-n ew work-three coats	sq.m	243.7			
29	PT0055	Providing and applying finishing coats, Aluminium paint, two coats on new work	sq.m	0.49			
30	PT0130	Providing, preparing and applying Yutshon painting (plain) Washable	sq.m	50.49			
31	PT0111	Providing, preparing and applying Sumdang washable painting, Ding	sq.m	60.84			
32	DR0001	Providing and laying 50mm thick Plinth Protection and grouted with fine sand mix including well rammed, finishing the top smooth With cement concrete 1:3:6, 20mm aggregates, laid over 75mm thick layer of compacted gravel (40mm)	sq.m	26.37			

33	DR0031	Constructing random rubble masonry open surface drain in cement mortar 1:6 including earth work in excavation, 100mm thick concrete base 1:5:10, 40 mm aggregate 25mm thick cement concrete 1:2:4, 12mm aggregate for filling haunches, including 20mm cement plaster with a floating coat of neat cement, disposal of surplus earth 150 x 200mm depth	m	56.25			
34	MR	Providing and fixing serthog(3 feet height) incl. golden colour painting and all other necessary fittings complete, etc.	each	1			
Total Amount (civil works)-A=Nu.							

Electrical BOQ

Bills of Quantities Name of work: Electrification of Hindu Lhakhang at Gewog.
Mode of Wiring: -Recessed HDPE /PVC internal wiring. Reference : BSR
2017

Sl.#	Description of items	Unit	Qty.	Rate in Figure	Rate in words	Amount
1	Supplying and fixing of HDPE pipe on recessed including all accessories such as screws, bends, elbows, Tees, corners, etc. complete as required Druk pipe /Richa makes					
	25mm	m	60			
	32mm	m	8			
2	Provide & Draw Single Core 1.1KV grade PVC insulated copper conductor cable in existing PVC surface conduit Royal cable or equivalent maes					
	2x1.5 sq.mm	m	125			
	2x2.5 sq.mm	m	40			
	2x4 sq.mm	m	35			
	1x1 sq.mm green colour for earthing	m	35			
3	Supplying & fixing of metal boxes for switch/socket outlet/switch socket combined/ gang switches on surface including painting etc as required Roma/MK modular makes					
	3 Module	each	4			
	6 Module	each	2			
	10Module	each	1			
4	Supplying & fixing of 6A switch on existing metal box with fibre sheet cover (recessed or surface) including necessary cutting, connection testing etc. as required.					
	10A switch modular SP 1-way	each	16			
5	Supplying & fixing of switch/socket on existing metal box with fibre sheet cover (recessed or surface)/ junction box (PVC/metal) including necessary cutting, connection testing etc. Roma/MK modular					
	makes 20A switch modular with indicator	each	4			
	5/6 pin, 10/20A modular socket outlet, shuttered	each	4			
	Ceiling Rose, 2 plate modular (PVC)	each	16			

6	Supplying & fixing on existing PVC/wooden /metal/moulded tough surface box with fibre sheet cover,round block, junction box (recessed or surface) including necessary cutting, connection testing etc. as required.					
	Angle holder (heavy duty, brass plunger)	each	5			
	Batten holder (heavy duty brass Plunger)	each	8			

Sl.#	Description of items	Unit	Qty.	Rate in Fugure	Rate in words	Amount
	INDOOR LUMINIARIES (Supply)					
7	Supplying of prewired indoor fluoesent lamp luminiaries housing of CRCA sheet steel rail, end with lamp holders, copper wound ballast, starter, starter holder, terminal block etc. but without lamp, LPF suitable for wall and ceiling Philips/Havells/Bajaj makes					
	Strip Rail electronic balast 36/40 watt	each	7			
8	Supplying of GLS lamps 250 volts A.C					
	LED B 22 9W 600lm Branded	each	8			
	LED B 22 5W 600lm Branded	each	4			
	TL lamp 36/40 watt	each	7			
	CONTROL GEAR & BUSBAR (Supply)					
	Miniature Circuit Breaker (MCB)					
9	Supply of miniature circuit breaker (MCB) single pole, 230 volt A.C complete with all accessories suitable to fix on a din-bar etc. as required Legrands/Havells makes					
	6A	each	2			
	16A	each	4			
10	Supply of loadkontak isolator double pole, 230 volt A.C complete with all accessories suitable to fix on a din-bar etc. as required Legrands/Havells makes					
	MCB 32A DP	each	2			

11	Supply of residual current circuit breaker (RCCB) double pole, sensitivity 30mA, 230 volt A.C complete with all accessories suitable to to fix on a din-bar etc. as required Legrands/Havells makes					
	RCCB DP 230V 32A 30mA	each	1			
12	Supply of SPN distribution board (DIN type) without door, 230 volt A.C complete with all accessories without MCB/isolator/RCCB out going or incoming etc. as required Legrands/Havells makes					
	2 way	each	1			
	8 way	each	1			

Sl.#	Description of items	Unit	Qty.	Rate in Fugure	Rate in words	Amount
	ERECTION/INSTALLATION					
13	Installation, testing and commissioning of prewired fluorescent fittings of all surface type complete with all accessories and tubes directly on ceiling/wall as required including connection with PVC insulated copper conductor					
	1 sq.mm single core cable 1.1 KV grade	each	7			
14	Installation, testing and commissioning of SPN DB (DIN type, horizontal/vertical) with no door, metal door or arcylic door (double/single door) complete with all accessories to accommodate incoming RCCB DP 16/25A sensitivity 30/100/300mA and outgoing SP MCB 6/10/16A on/in prefabricated MS surface/MS cubical control panel board including drilling holes, connections etc. as required					
	8 way	each	1			
	CHEMICAL EARTHING					

15	Providing and fixing of Chemical earthing including all accessories, machinery enclosure, C.I cover plate having locking arrangement, with nut and bolt and excavation and refilling work including mixed compound complete as required as per standard earthing drawing					
	With G.I 100mm 3 meter length	each	1			
16	Providing and laying earth connection from earth electrodes in 15mm dia Cu pipe from earth electrodes as required as per guidance of standard earthing drawing					
	25x4mm GI strip	m	12			
	POWER CABLE (Supply)					
17	Supplying of 2- Core 1.1KV grade PVC insulated and sheathed Aluminium conductor armoured power cables Havells/Gloster makes					
	16 sq.mm	m	65			
Sl.#	Description of items	Unit	Qty.	Rate in Fugure	Rate in words	Amount
18	Providing & fixing of mixed conifer seasoned wood 400x350x200mm deep with locking arrangement and cover with chicken mess wire including all necessary required					
	Wooden DB Box 400x 350x 200mm	each	1			
19	Supplying and fixing of Digital Energy meter 20 -40 A from ESD recomodation including security money and thimble connection as required complete.					
	SP 20-40A Digital Energy Meter	set	1			

(Electrical)Total Nu.

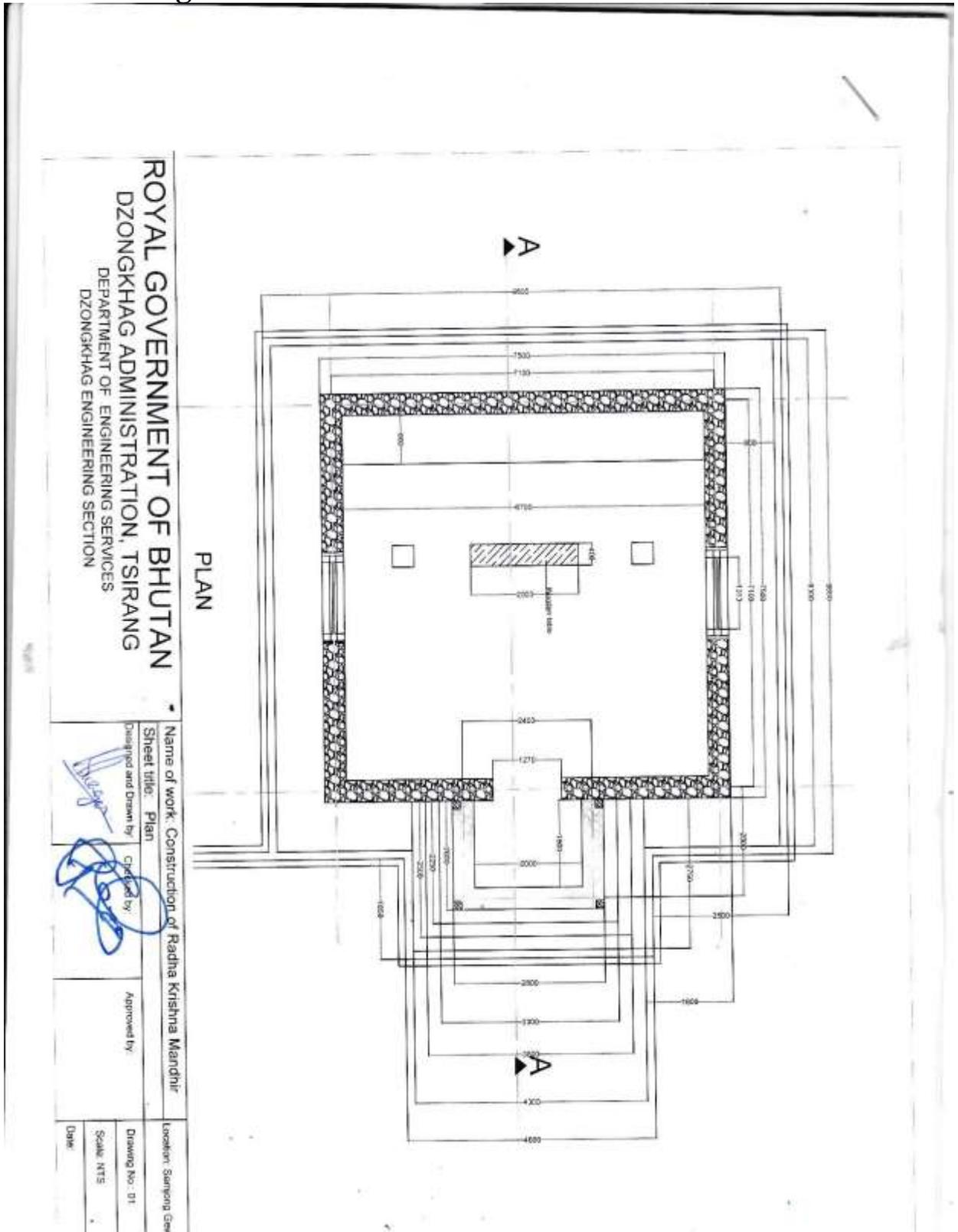
In words (Ngultrum :

) only

Contractor seal & signed

Section
9. Drawings

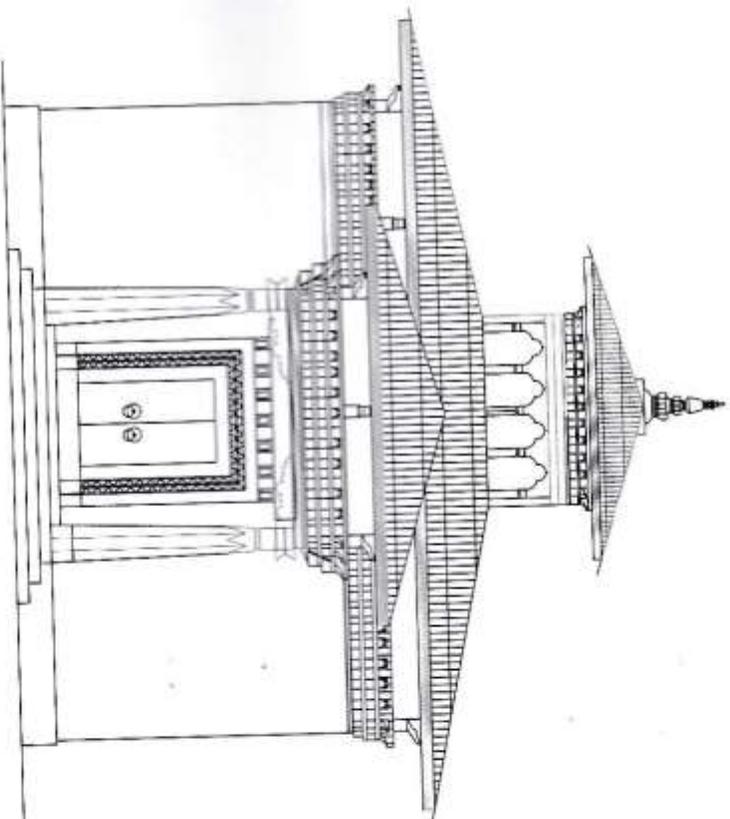
CivilDrawings.



ROYAL GOVERNMENT OF BHUTAN
DZONGKHAG ADMINISTRATION, TSIRANG
 DEPARTMENT OF ENGINEERING SERVICES
 DZONGKHAG ENGINEERING SECTION

PLAN

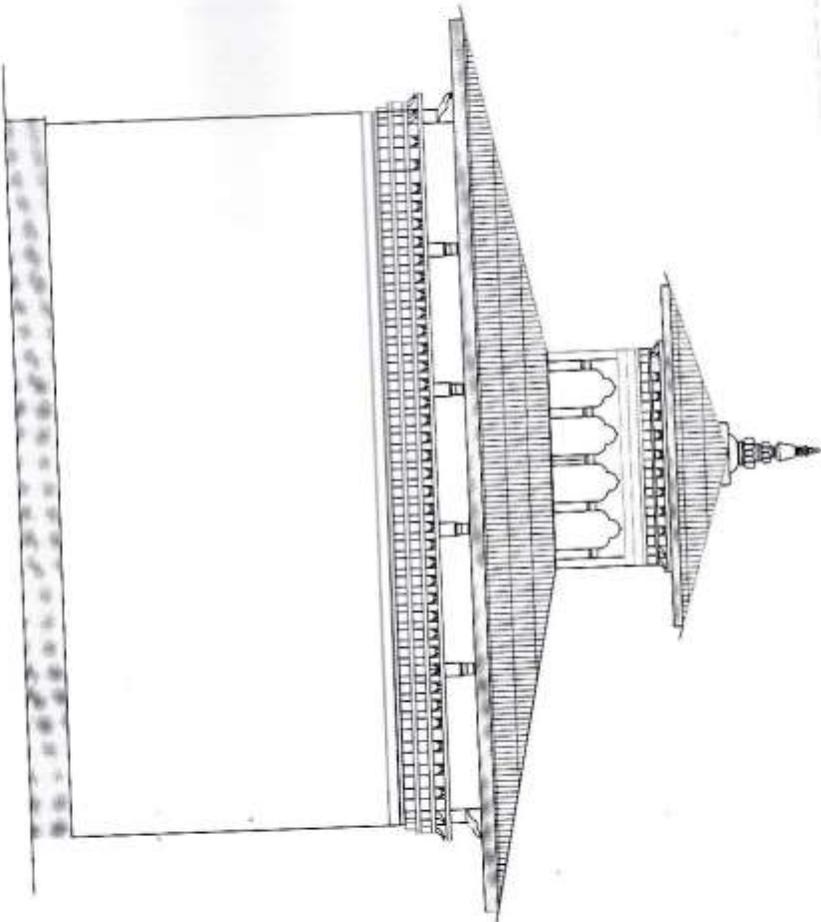
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Sheet title: Plan	Designed and Drawn by: <i>[Signature]</i>	Drawing No.: 01
Checked by: <i>[Signature]</i>	Approved by:	Scale: NTS
		Date:



FRONT ELEVATION

ROYAL GOVERNMENT OF BHUTAN
 DZONGKHAG ADMINISTRATION, TSIRANG
 DEPARTMENT OF ENGINEERING SERVICES
 DZONGKHAG ENGINEERING SECTION

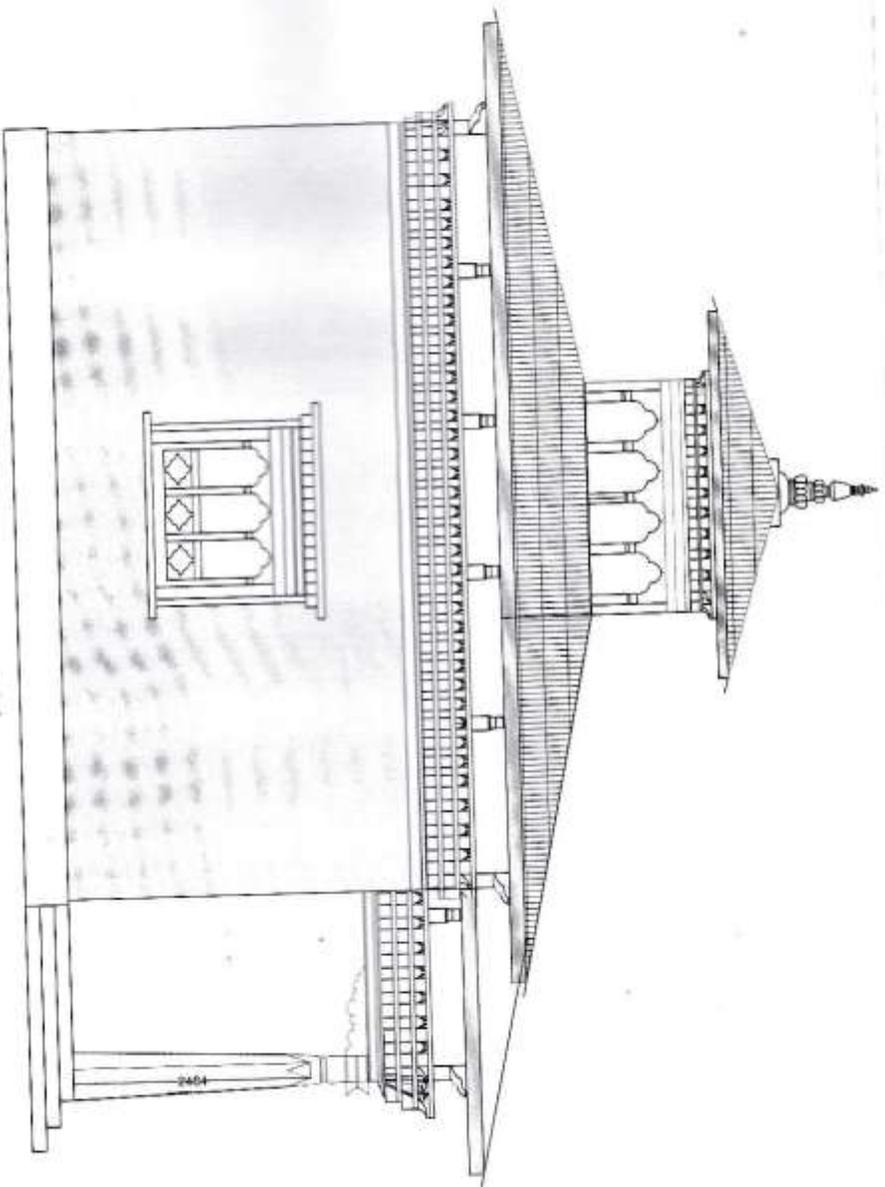
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Sheet title: Rear Elevation	Designed and Drawn by <i>[Signature]</i>	Checked by <i>[Signature]</i>	Approved by
			Scale: NTS
			Date:



REAR ELEVATION

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DZONGKHAG ENGINEERING SECTION

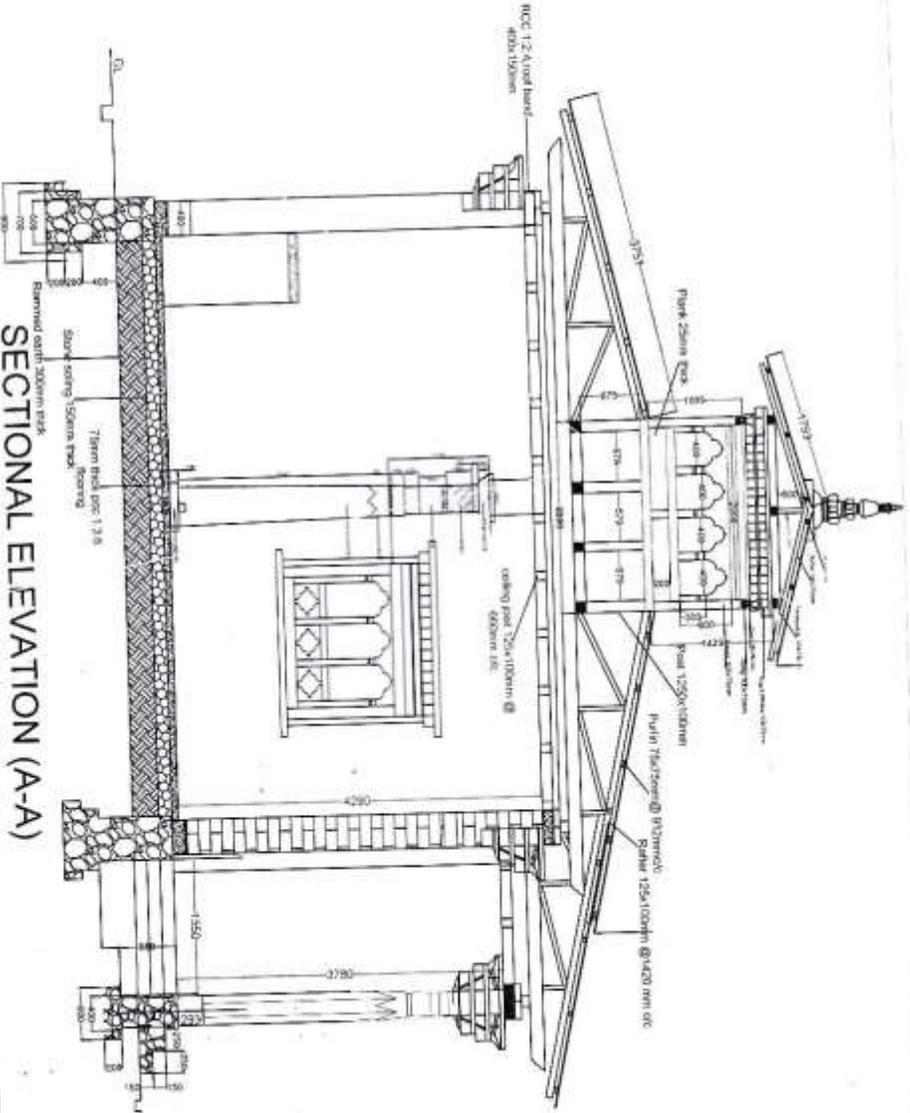
Name of work: Construction of Radha Krishna Mandhir		Location: Semping G	
Sheet title: REAR Elevation	Designed and Drawn by: 	Checked by: 	Drawing No.: 03
Approved by:			Scale: NTS
			Date:



SIDE ELEVATION

ROYAL GOVERNMENT OF BHUTAN
DZONGKHAG ADMINISTRATION, TSIRANG
DEPARTMENT OF ENGINEERING SERVICES
DZONGKHAG ENGINEERING SECTION

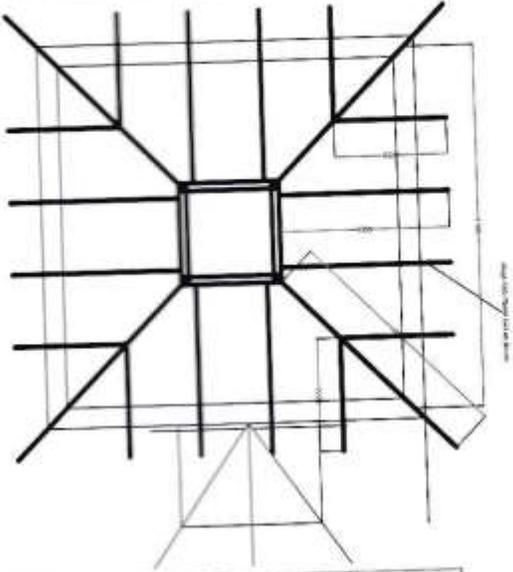
Name of work: Construction of Radha Krishna Mandhir		Location: Serpong Ge
Sheet title: Side Elevation	Designed and Drawn by: 	Drawing No.: 04
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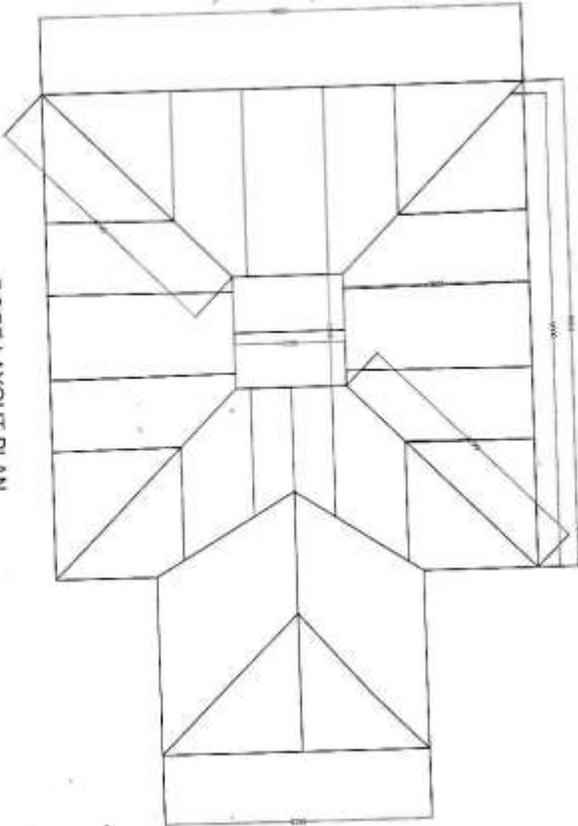
SECTIONAL ELEVATION (A-A)

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 DZONGKHAG ENGINEERING SECTION

Name of work: Construction of Radha Krishna Mandhir		Location: Semping Ge	
Sheet title: Sectional Elevation (A, A)		Drawing No.: 05	
Designed and Drawn by:	Checked by:	Approved by:	Scale: NTS
Date:		Date:	



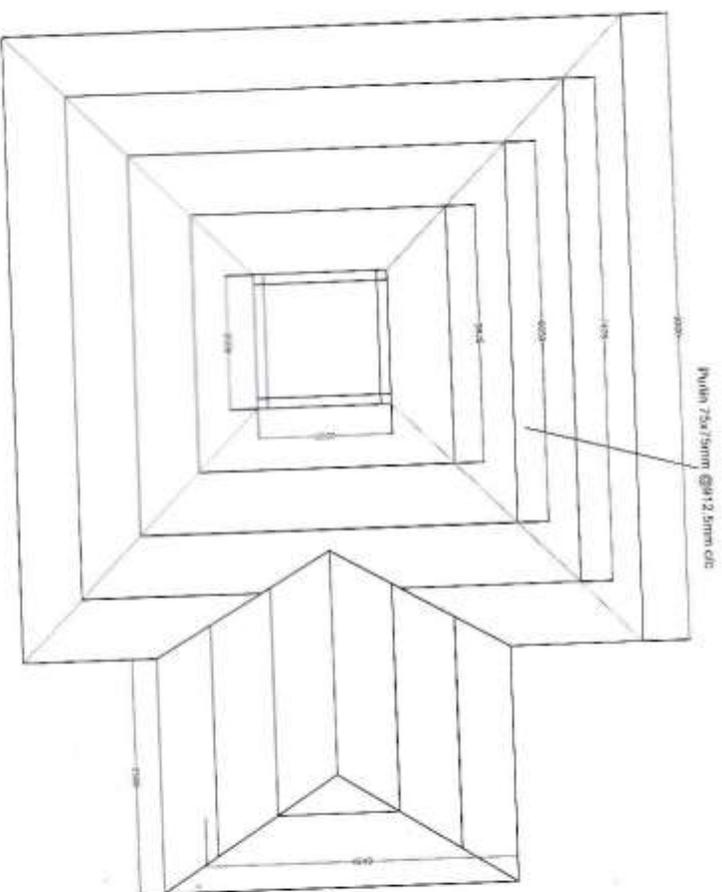
DINGRI LAYOUT PLAN



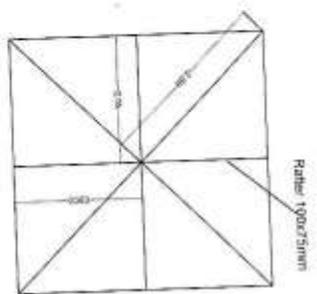
ROOF LAYOUT PLAN

ROYAL GOVERNMENT OF BHUTAN
 DZONGKHAG ADMINISTRATION, TSIRANG
 DEPARTMENT OF ENGINEERING SERVICES
 DZONGKHAG ENGINEERING SECTION

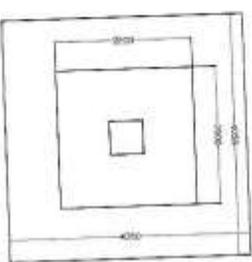
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Designed and Drawn by	Checked by	Approved by	Scale: N.T.S.
			Date:



PURLIN LAYOUT PLAN



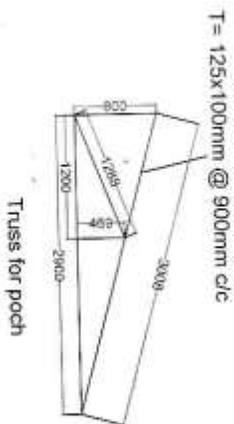
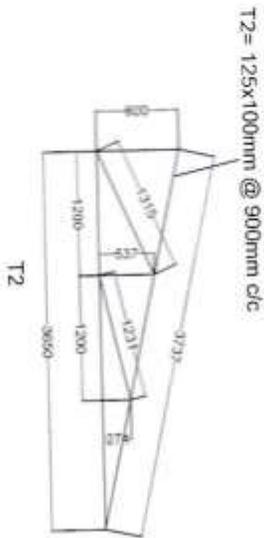
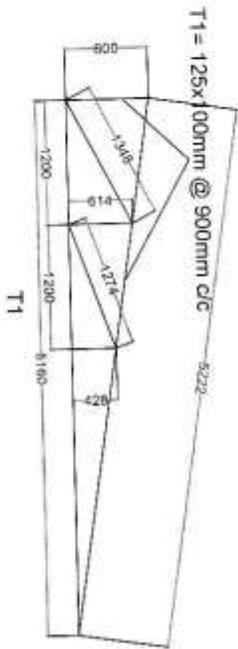
JAMTHO TRUSS LAOUT PLAN



JAMTHO PURLIN LAYOUT PLAN

ROYAL GOVERNMENT OF BHUTAN
 DZONGKHAG ADMINISTRATION, TSIRANG
 DEPARTMENT OF ENGINEERING SERVICES
 DZONGKHAG ENGINEERING SECTION

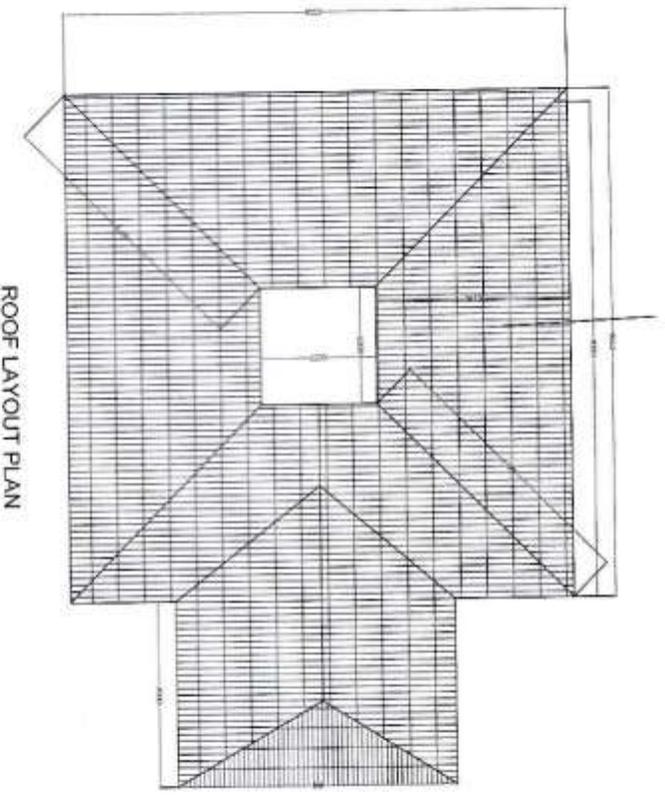
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Sheet title: Purlin Layout Plan	Designed and Drawn by:	Checked by:
Approved by:	Drawing No.: 07	Scale: NTS
Date:		



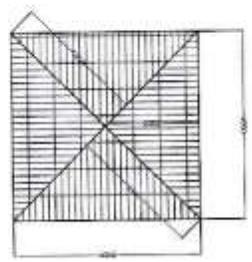
TRUSSES DETAIL

ROYAL GOVERNMENT OF BHUTAN
 DZONGKHAG ADMINISTRATION, TIRANG
 DEPARTMENT OF ENGINEERING SERVICES
 DZONGKHAG ENGINEERING SECTION

Name of work: Construction of Radha Krishna Mandhir		Location: Serpong Goo
Sheet title: Truss Plan		Drawing No. 00
Designed and Drawn by	Checked by	Scale: NTS
		Date:
Approved by		



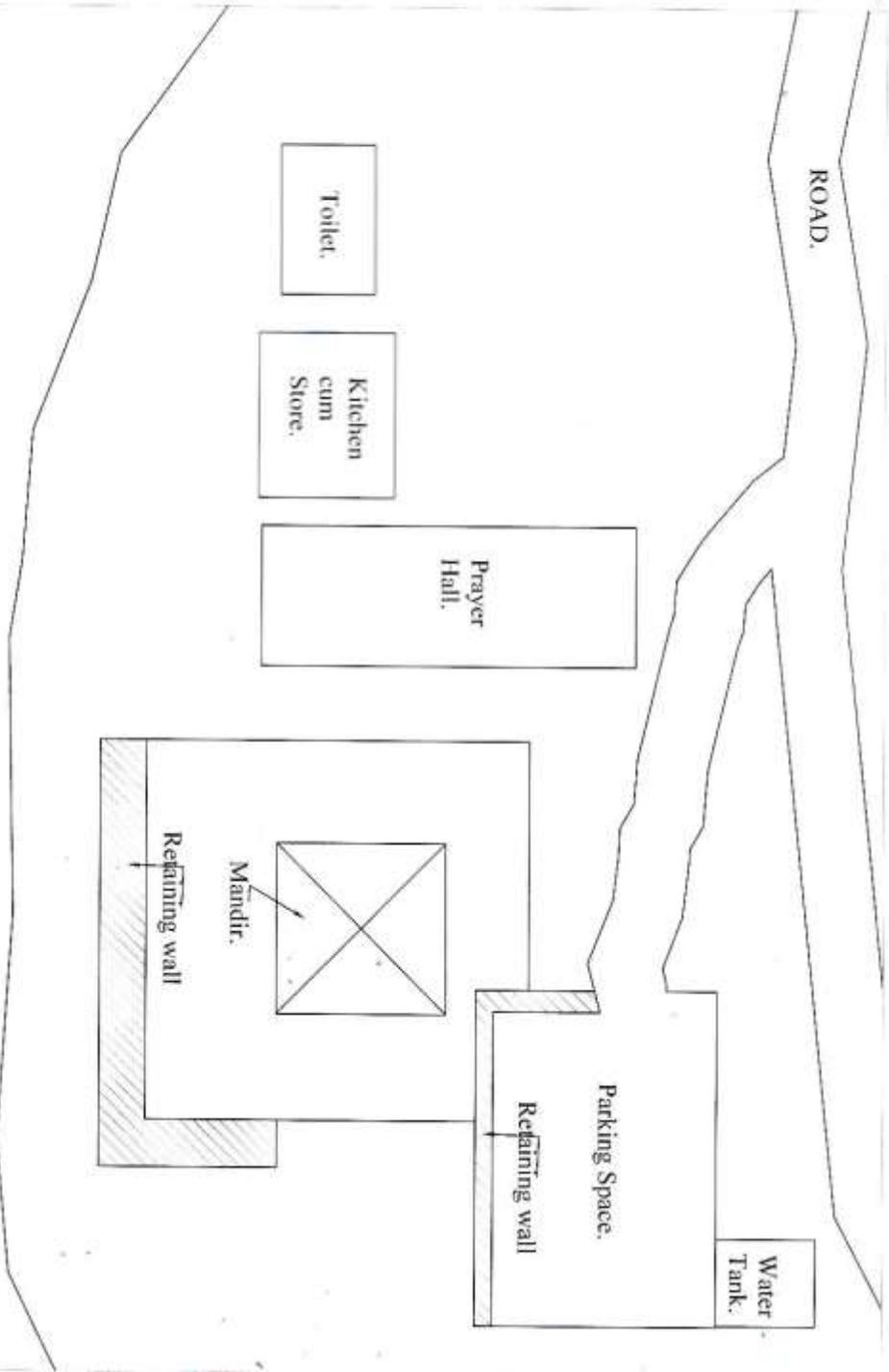
ROOF LAYOUT PLAN



JAMTHO ROOF LAYOUT PLAN

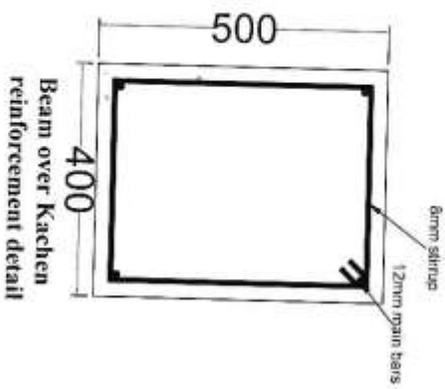
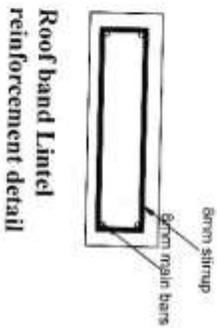
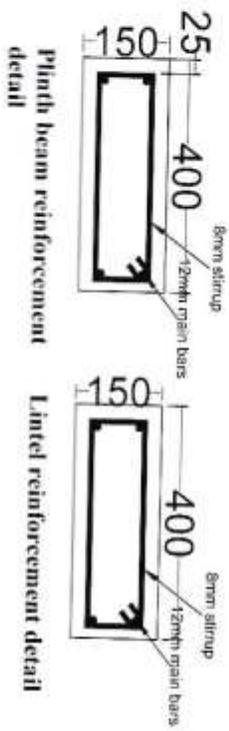
ROYAL GOVERNMENT OF BHUTAN
DZONGKHAG ADMINISTRATION, TSIRANG
 DEPARTMENT OF ENGINEERING SERVICES
 DZONGKHAG ENGINEERING SECTION

Name of work: Construction of Raacha Krishna Mandhir		Location: Sengang
Designed and Drawn by:	Checked by:	Approved by:
Sheet title: Roof Plan Layout	Drawing No.: 09	Scale: N.T.S.
	Date:	



ROYAL GOVERNMENT OF BHUTAN
DZONGKHAG ADMINISTRATION, TSIRANG
 DEPARTMENT OF ENGINEERING SERVICES
 DZONGKHAG ENGINEERING SECTION

Name of work: Construction of Radha Krishna Mandhir		Location: Sanyang Gueg	
Sheet title: Site Plan Detail		Drawing No: 13	
Designed and Drawn by:	Checked by:	Approved by:	Scale: NTS
			Date:



cc-25mm

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 DZONGKHAG ENGINEERING SECTION

Name of work: Construction of Radha Krishna Mandhir		Location: Semjong Gang	
Sheet title: Reinforcement detail	Designed and Drawn by: 	Checked by: 	Approved by:
Drawing No. 14		Scale: A7S	
Date:			

ELECTRICAL DRAWINGS

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DZONGKHAG ENGINEERING SECTION

Name of work: Electrification of Hindu Lhakhang at Sempjorg Gewog		Sheet Title: Cover Page	Drawing No. 10
Drawn & design by (Drawing Engineer)	Checked by	Commissioned by	Scale: NTS
			Date: 11/06/2018

S/N	DRAWING TITLE	DRAWING NO
1	Electrical Ring Diagrams	01
2	Power panel layout	02
3	Switch box to Ring wiring layout plan	03
4	Distribution box layout	04
5	General legends and general instruction	05
6	Chemical earthing	N/A

Legends and symbols

Symbol	Specification
	500mm dia, 200mm depth with 100mm concrete, 100mm dia, 100mm depth, or 100mm dia, 100mm depth, 100mm dia, 100mm depth
	40mm dia, 100mm depth with 100mm concrete, 100mm dia, 100mm depth
	40mm dia, 100mm depth with 100mm concrete, 100mm dia, 100mm depth
	40mm dia, 100mm depth with 100mm concrete, 100mm dia, 100mm depth
	40mm dia, 100mm depth with 100mm concrete, 100mm dia, 100mm depth
	40mm dia, 100mm depth with 100mm concrete, 100mm dia, 100mm depth
	40mm dia, 100mm depth with 100mm concrete, 100mm dia, 100mm depth
	40mm dia, 100mm depth with 100mm concrete, 100mm dia, 100mm depth
	40mm dia, 100mm depth with 100mm concrete, 100mm dia, 100mm depth
	40mm dia, 100mm depth with 100mm concrete, 100mm dia, 100mm depth
	40mm dia, 100mm depth with 100mm concrete, 100mm dia, 100mm depth

SPECIFICATION DETAILS FOR ELECTRICAL WORKS

- (1) ALL LIGHT POINT SHALL BE WITH 1.5SQ MM PVC INSULATED COPPER CONDUCTOR 1.14V.
 - (2) ALL LIGHT CIRCUIT WIRING SHALL BE WITH 2.5SQ MM PVC INSULATED COPPER CONDUCTOR
 - (3) ALL POWER POINT WIRING SHALL BE WITH 4SQ MM PVC INSULATED COPPER CONDUCTOR 1
 - (4) ALL WALL FIXTURE SHALL BE AT 2.5M MIN. FROM FINISHED FLOOR LEVEL.
 - (5) ALL THE LIGHT SWITCH BOARD SHALL BE AT 1.5M MIN. FROM THE FINISHED FLOOR LEVEL.
 - (6) ALL POWER POINT SHALL BE AT 0.3M MIN. FROM FINISHED FLOOR LEVEL AND 1.2M MIN. FROM KITCHEN LEVEL.
 - (7) MINIMUM SIZE OF CONDUIT 25mm, RECOMMENDED 32mm AS PER LAYOUT
 - (8) ALL THE SUBDISTRIBUTION SHALL BE IN RECESSED.
 - (9) NO PHASE DIFFERENCE IS ALLOWED TO BE DRAWN THROUGH THE SAME CONDUIT
 - (10) SOME ASSUMPTION AND LOADS ARE AS FOLLOWS:
 - a) Connected Load - 5000 W
 - b) Voltage level - 230V
 - c) Power Factor - 0.8
 - d) Demand Factor - 0.9
 - (11) EARTHING STATION SHALL BE AT LEAST 1 MINS. FROM BUILDING FOOTING
 - (12) All live wire should be red, neutral should be black and earth should be 1sq mm green wire
- ON COMPLETION OF THE INSTALLATION, THE FOLLOWING TEST RESULTS SHOULD BE SATISFY**
- (1) POLARITY TEST - ALL SWITCH MUST BE ON LIVE CONDUCTOR
 - (2) INSULATION TEST - MINIMUM TEST RESULT SHOULD NOT BE LESS THAN 1 MEGA OHM
 - (3) EARTH CONTINUITY TEST - LOW VOLTAGE TEST LAMP TEST SHOULD SATISFY THE INSTALLATION
 - (4) EARTHING TEST - TEST RESULT SHOULD BE WITHIN 5 OHMS (FORMER EARTHING)

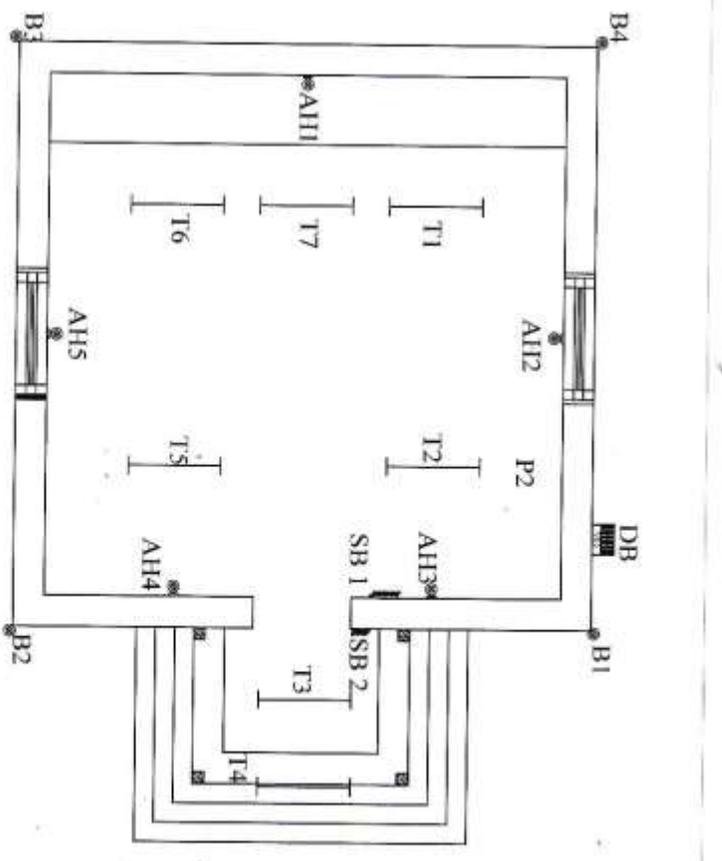
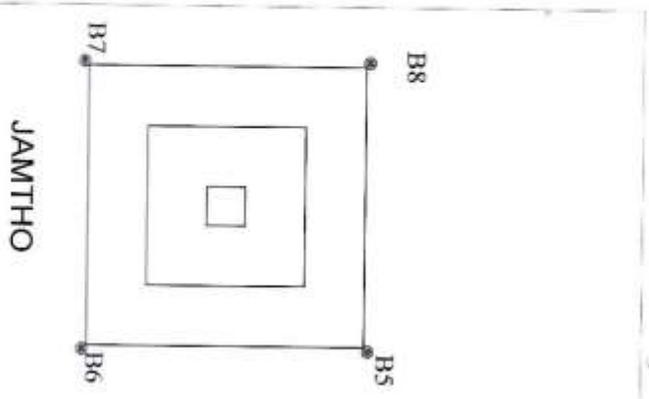
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DEPARTMENT OF ENGINEERING SERVICES

DZONGKHAG ENGINEERING SECTION

Name of work: Electrification of Hindu Unakhang at Sempang Gewog		Sempang Gewog	
Sheet Title: Instruction		Drawing No: 00	
Drawn & design by <i>[Signature]</i> Training Specialist	Checked by <i>[Signature]</i> Senior Engineer	Approved by <i>[Signature]</i>	Scale: NTS
		Date: 11/27/18	

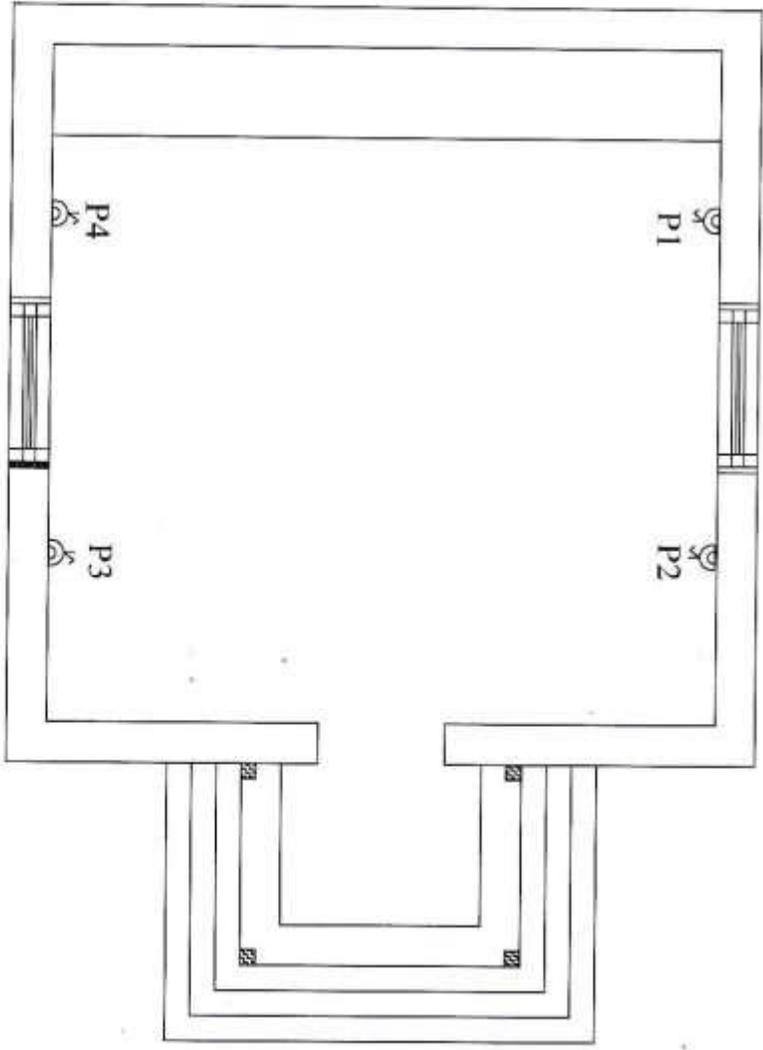


FLOOR PLAN

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 DEPARTMENT OF ENGINEERING SERVICES
 DZONGKHAG ENGINEERING SECTION

Name of work: Electrification of Hindu Lhakhang at Sengjog Gewog		Sengjog Gewog District	
Sheet Title: Electrical fitting layout			
Designed by: <i>Shingdey</i> Training Engineer I	Checked by: <i>[Signature]</i> Senior Training Engineer	Countersigned by: <i>[Signature]</i> District Engineer	Approved by:
Drawing No.: 01		Scale: NTS	
Date: 11/11/2018			



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 DZONGKHAG ENGINEERING SECTION

Name of work: Electrification of Hindu Lhakhang at Serjung Gewog

Sheet Title: Power point layouts

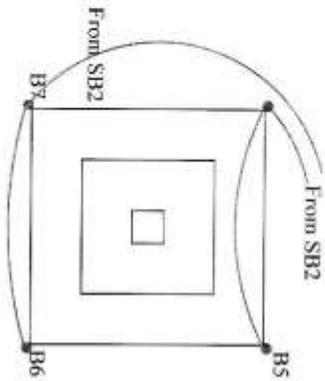
Drawn & design by
(Signature)
 (Name)

Checked by
(Signature)
 (Name)

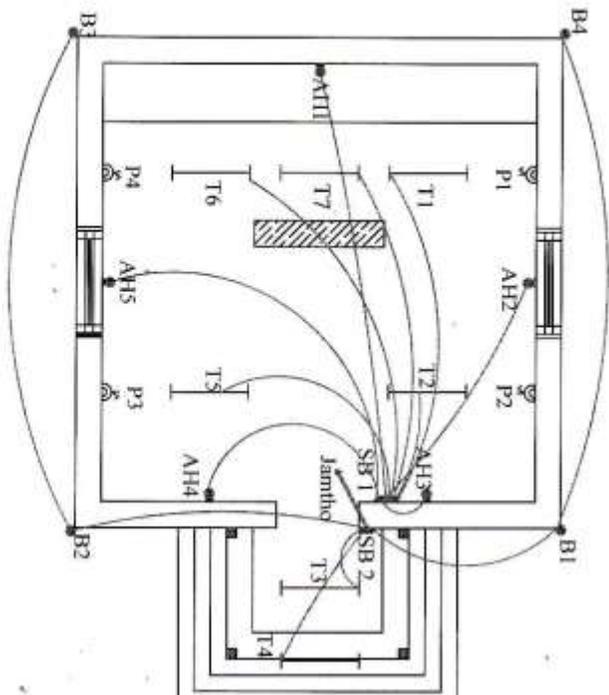
Countersigned by
(Signature)
 (Name)

Approved by:

Drawing No.: 02
 Scale: NTS
 Date: 11/02/18



JAMTHO



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 DZONGKHAG ENGINEERING SECTION

Name of work: Electrification of Hindu Lhakhang at Sengyong Gewog
 Sheet Title: control wiring layout plan

Designed by: *[Signature]*
 Checked by: *[Signature]*
 Drawn by: *[Signature]*
 Tshering Tenzin (EIT)

Approved by: *[Signature]*

Sengyong Gewog, Jd

Drawing No.: 00

Scale: NTS

Date: 11/12/2018

