

STANDARD BIDDING DOCUMENT

Procurement of Small Works (up to Nu.4 million)



**Royal Government of Bhutan
Ministry of Finance**

***Work:* Construction of Lam Neten Residence at Namgyel Choiling,
Dratshang, Tsirang**

- | | | |
|--|-----------|----------------------------------|
| 1. Date of sell of Documents | :- | 26/03/2019 |
| 2. Last Date of sell of documents | :- | 08/04/2019 |
| 3. Date of submission | :- | 08/04/2019 before 10.00am |
| 4. Date of opening | :- | 08/04/2019 at 10.30am |



ཇོང་ཁག་བདག་སྐྱོང་ཆེ་རང་།
DZONGKHAG ADMINISTRATION
TSIRANG
Engineering Sector



TD/DES-22/2018-2019/ 391


Date: 25.03.2019

Invitation for Bids (Re-Tender)

The Dzongkhag Administration Tsirang now, re- invites sealed bids from eligible and qualified bidders for execution of following works;

Name of work	Estimated cost (Nu. in million)	Contractor Category	Contract Duration
1. Construction of Lam Neten's Residence, at Namgyel choiling Dratshang, Tsirang	3.95	W3 (Small)	08 months

1. Bidding will be conducted through the National Competitive bidding procedures specified in the Royal Government of Bhutan Procurement Rules and Regulations and is open to all bidders as eligible as per Bidding Documents.
2. Interested eligible bidders may obtain further information from the Dzongkhag Engineer, Tsirang, Ph# 17683596/17618386 and inspect the Bidding Documents at the Tsirang Dzongkhag web site.
3. A margin of preference for eligible national contractors/joint ventures/consortia/associations may not be applied.
4. A complete set of bidding documents in English may be downloaded from the Dzongkhag website www.tsirang.gov.bt w.e.f 26.03.2019 till 08.04.2019.
5. Bids must be delivered to the office of the Procurement Officer, Tsirang Dzongkhag on or before **10.00 AM on 08.04.2019**. Electronic bidding "shall not" be permitted. Late bids will be rejected. Bids will be opened physically in the presence of the bidder's representatives who choose to attend in person at Dzongkhag Conference Hall on **08.04.2019 at 10.30 AM**.
6. All Bids shall be accompanied by a Bid Security of **Nu.59000.00** (Nu. Fifty Nine Thousand) only drawn in favour of Dasho Dzongdag, Tsirang Dzongkhag. Bid security shall be furnished as per the prescribed format specified in the bidding document and should be valid for **30 days** beyond bid validity.


 (Namgye Dorji)
 Offg Dzongdag

Copy to:

1. The Dzongkhag Cultural Officer, Tsirang Dzongkhag for information.
2. Procurement Officer, Dzongkhag Administration, Tsirang for information.
3. ICT, Tsirang Dzongkhag to upload in Tsirang Dzongkhag /CDB website..
4. The Dzongkhag Finance Officer, Tsirang for information..

Contents

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

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

Bank Guarantee for Performance Security.....	34
Bank Guarantee for mobilisation advance	35

Section 1: Instructions to Bidder (ITB)

A. General

1. Scope of Tender
 - 1.1 The Employer, as **indicated in the BDS** issues this Bidding Document for the procurement of Works as specified in Section 6 (Employer's requirement): The name, identification and identification of this bidding are **provided in the BDS**.
 - 1.2 The successful Bidder will be required to complete the Works within the Time for Completion stated in the Special Conditions of Contract (SCC).
 - 1.3 Throughout this Bidding Documents;
 - (a) The term "in writing means communicated in written form with proof of receipt;
 - (b) If the context so requires, singular means plural and vice versa; and
 - (c) "day" means calendar day.
2. Corrupt Fraudulent Collusive or Coercive Practices
 - 2.1 The Royal Government of Bhutan requires that Employers and the Bidders shall observe the highest standard of ethics during the implementation of procurement proceedings and the execution of Contracts under public funds.
 - 2.2 In pursuance of this requirement, the Employer shall
 - (a) exclude the bidder from participation in the procurement proceeding concerned or reject a proposal for award; and
 - (b) declare a bidder ineligible, either indefinitely or for a stated period of time, from participation in procurement proceedings under public funds;
 - 2.3 If it, at any time, determines that the bidder has engaged in corrupt, fraudulent, collusive or coercive practices in competing for, or in executing, a Contract under the public funds.
 - 2.4 The Government defines, for the purposes of this provision, the terms set forth below as follows :
 - a) "**corrupt practice**" 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**" 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**" 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**" 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 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 | <p>11.1 The original and copy(ies) of Bid submitted by the Bidder shall comprise the following:</p> <ul style="list-style-type: none"> (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. <p>11.2 The Instruction to Bidders, Bidding Data Sheet, General Conditions of Contract, Special Conditions of Contract, Specifications and drawings are for the information of the bidders and is not required to be submitted by the bidder,</p> |
| 12 Letter of Bid and Schedule | 12.1 The letter of Bid, Schedules, and all documents listed under Clause 11, shall be prepared using the relevant forms in Section 4 (Bidding Forms), if so provided in BDS. The forms must be completed without any alterations to the text, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested. |
| 13. Alternative Bid | 13.1 Alternative Bid shall not be considered in small works. |
| 14. Bid Price and Discount | <p>14.1 The prices and discounts quoted by the Bidder in the Letter of Bid and in the Schedules shall confirm to the requirements specified below;</p> <p>14.2 The bidder shall submit a bid for the whole of the works described in ITB 1.1 by filling in prices for all items of the Works, as identified in Section 4, Bidding Forms. In case of admeasurements contracts, the Bidder shall fill in rates and prices for all items of the Works described 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.</p> <p>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.</p> |

15	Currencies of Bid and Payment	15.1	All prices shall be quoted in Bhutanese Ngultrum (BTN) and shall be paid in BTN.
16	Documents comprising the Technical Proposal	16.1	The bidder shall furnish a work plan in simple bar chart and other information if provided in BDS, to demonstrate the adequacy of the Bidders' proposal to meet the work requirements and the completion time.
17	Documents establishing the Qualification of the Bidder	17.1	To establish its qualification to perform the Contract in accordance with Section 3 (Evaluation and Qualification Criteria) the Bidder shall provide the information requested in the corresponding information sheets included in Section 4 (Bidding Forms)
18	Bid Validity	18.1	Bids shall remain valid for the period 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: <ul style="list-style-type: none"> (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; <ul style="list-style-type: none"> (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, | 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, |

Errors and Omissions		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: <ul style="list-style-type: none"> (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	
ITB Clause	Amendment of, and Supplements to, Clauses in the Instructions to Bidders
A. General	
ITB 1.1	<p>The Employer is <i>Dzongdag, Dzongkhag Administration, Tsirang.</i></p> <p>The Name and Identification of the Contract are “ Construction of Lam Neten Residence at Namgayel chilling Dratshang, Tsirang.</p> <p>The Works are:</p> <ol style="list-style-type: none"> 1. Single storied building, with main outer wall of RRM 400mm thick, and internal partition wall of second class brick 250mm thick. 2. The electrical wiring is conduct . 3. The excavated soil to be disposed up to a radius of 2km as location shown by site Incharge. 4. Site development and foot path
ITB 3.2	<p>Limited bidding method. (14 days)</p> <p>All Bidders regardless of whether enlisted or not enlisted with the Dzongkhag may submit Bids provided they otherwise qualify for W3, Small Category</p>
B. Bidding Documents	
ITB 6.1	<p>For <u>clarification of Tenders purposes</u> only, the Employer’s address is:</p> <p>Attention: Dzongkhag Engineer,</p> <p>Address: Engineering Sector, Tsirang</p> <p>Telephone: 17683596</p> <p>Facsimile number: NONE</p> <p>Electronic mail address: NONE</p>
C. Preparation of Bids	
ITB 16.1	A simple bar chart work plan:- Not Required

ITB 18.1	The Bid validity period shall be 60 days.
ITB 19.1	A Bid Security in the amount of Nu. 59000.00 (Fifty Nine Thousand) will be required, in the form; a)Unconditional Bank guarantee b)Cash warrant; or c)Demand draft
ITB 20.1	In addition to the original, “ ONE ” copy shall be submitted.
D. Submission and Opening of Bids	
ITB 21.1	The inner and outer envelopes shall bear the following additional identification marks: <i>DO NOT OPEN BEFORE 10.30 AM on 08.04.2019</i>
ITB 22.1	For <u>Bid submission purposes</u> only, the Employer’s address is: Attention: Dasho Dzongdag Address: Dzongkhag Administration, Tsirang The deadline for the submission of Tenders is: Time & Date: up to 10.00AM on 08.04.2019
ITB 25.1	The Bid opening shall take place on the same day as the closing day of the bid submission at: <i>Dzongkhag Conference Hall.</i> Date: 08.04.2019: ; Time: 10:30 AM
E. Tender Opening and Evaluation	
ITB 31.1	The evaluation shall be based on the lowest price of the responsive bidder and the work will be awarded to the lowest responsive bidder.
F. Award of Contract	
ITB 34.3	The amount of Performance Security shall be 10 percent of the Contract Price.

	<p>The lowest evaluated bidder whose bid is considered abnormally low or unbalanced following prescribed evaluation procedures, the bidder shall be required to provide differential security in the form of "cash warrant" in addition to performance security along with the submission of 10% Performance Security. The cash warrant shall be valid for at least 6 months and thereafter can be converted to Bank Guarantee.</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 , if bidders has quoted less, more than 20% of the departmentally estimated amount, the bidder has to submit additional difference full percentage.</p>
--	--

Section 3 – Evaluation and Qualification Criteria

This section contains all the criteria that the Employer shall use to evaluate bids and qualify Bidders if the bidding was not preceded by a prequalification exercise and post qualifications are applied. Procuring Agency may apply basic minimum technical qualification requirement (manpower and 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 practice 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 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 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 is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party.

 - 3.4 The Government requires that the Client's personnel have an equal obligation not to solicit, ask for and/or use coercive methods to obtain personal benefits in connection with the said proceedings.

- 4. Governing Language and Law
 - 4.1 The Contract as well as all correspondence and documents relating to the Contract exchanged by the Contractor and the Employer, shall be written in English unless otherwise stated in the SCC. The Contract shall be governed by and interpreted in accordance with the laws of the Kingdom of Bhutan.

- 5. Engineer's Decision
 - 5.1 Except where otherwise specifically stated in the SCC, the Engineer will decide Contractual matters between the Employer and the Contractor in the role as representative of the Employer.

- 6. Delegation
 - 6.1 The Engineer may delegate any of his duties and responsibilities to his representative, after notifying the Contractor, and may cancel any delegation, without retroactivity, after notifying the Contractor.

7. Communications and Notices	7.1 Communications between Parties pursuant to the Contract shall be in writing to the address specified in the SCC. A notice shall be effective when delivered or on the notice's effective date, whichever is later.
8. Sub- Contracting	8.1 The Contractor shall not be permitted to subcontract any part of the Works in whole or in part.
9. Contractor's Personnel	9.1 The Contractor shall employ the key personnel named in the Schedule of Key Personnel, as referred to in the SCC, to carry out the functions stated in the Schedule, or other personnel approved by the Engineer.
10. Welfare of Labourers & Child Labour	<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	12.1 The Contractor shall allow the Engineer and any person authorised by the Engineer access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.
13. Documents, Information.	13.1 The Contractor shall furnish to the Engineer all information, schedules, calculations and supporting documentation that may be requested of it.
14. Property	14.1 If the contract is terminated by the Employer because of the contractors default, then, the contractor shall not be allowed to remove any materials on the Site, Plant, and Temporary Works until the matter is amicably resolved.
15. Insurance	<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	16.1 The Employer shall give possession of the Site, or parts of the Site, to the Contractor on the date(s) specified in the SCC.

17. Commencement of Works	17.1	The Contractor may commence execution of the Works on the Start Date, or other such date as specified in the SCC, and shall carry out the Works in an expeditious manner.
	17.2	If the Contractor fails to commence the works within the above stated period, the Employer may, at his sole discretion, terminate the Contract and forfeit the Performance Security, if any.
18. Completion of Works	18.1	The Contractor shall complete the Works within the number of days stated in the SCC from the date of commencing the Works on the Site.
19. Programme of Works	19.1	Within the time stated in the SCC, the Contractor shall submit to the Engineer for approval a work program. The Contractor shall submit to the Engineer for approval an updated Programme at intervals no longer than the period stated in the SCC.
20. Early Warning	20.1	The Contractor shall warn the Engineer at the earliest opportunity of specific likely future events or circumstances that may adversely affect the quality of the work result in increase to the Contract Price or delay in the execution of the Works.
21. Compensation Events	21.1	The following shall be Compensation Events: (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.
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	
Clause Ref	Amendments of, and Supplements to, Clauses in the General Conditions of Contract
GCC 1.1(d)	The Contractor is (<i>shall be known only after awarding of works</i>)
GCC 1.1(h)	The Employer is : <i>Dasho Dzongdag, Dzongkhag Administration, Tsirang</i>
GCC 1.1(i)	The Engineer is: <i>Tashi Penjor, DES, Tsirang.</i>
GCC 1.1(j)	The Intended Completion Date for the whole of the Works shall be <i>08 months.</i>
GCC 1.1(k)	The Site is located at <i>Namgayel Choiling, Dratshang, Tsirang</i>
GCC 1.1(l)	The Works are; <i>site development, foot path, disposal of excavated earth, single storied building, electrical wiring</i>
GCC 2.2(i)	The additional documents forming part of this Contract are: <i>“No additional documents”. However the winning bidder should make available of machineries for earth excavation, tripper for disposal of soil, concrete mixture for RCC works and all timbers should be well seasoned.</i>
GCC 4.1	The Language governing the Contract shall be: <i>English.</i>

GCC 5.1	The Engineer shall obtain specific approval of the Employer before taking any of the following actions: Additional works beyond permissible limit of the engineer.
GCC 7.1	The addresses for Communications shall be: <u>For the Employer:</u> <i>Dzongkhag Engineer, DES, Tsirang represented by site engineer Tashi penjor of the same office.</i> <u>For the Contractor:</u> Will be available after tendering only.
GCC 9.1	The Key Personnel of the Contractor are: “NONE” .
GCC 15.1	For insurance purposes the type of cover required shall be: The contractor shall be responsible for the insurance of the work, machineries and labour .
GCC 16.1	Possession of the site shall be within 10 days from the date of signing of the Contract and issuance of Work Orders.
GCC 17.1	Commencement of work shall be within 10 days from the date of giving possession of the site.
GCC 18.1	Completion of works shall be within 08 months from the date of commencing the works on the site.
GCC 19.1 & 19.2	The Contractor shall submit the first work plan along with the signing of contract agreement , and shall update the work plan every 4 weeks during the period of the Contract
GCC 22.1	“The rates for non-scheduled items of works shall be determined by the Engineer”.
GCC 25.2	An advance payment of 10 % of the Contract Price will be made to the Contractor within (14) days of Contract signing date.
GCC 26.1	The Retention shall be 10 % of the final Contract Price.
GCC 27.1	The liquidated damages for the whole of the Works are 0.05% of the final Contract Price per day. The maximum amount of liquidated damages for the whole of the Works is 10% of the final Contract Price .
GCC 31.1	The Defects Liability Period shall be 12 months .
GCC 35.1	The percentage to apply to the value of the work not completed, representing the Employer's additional cost for completing the Works, is 20% of the value of work not completed up to a maximum of 10% of the initial contract price .

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 mobilization 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)

Section 9. Drawings

Notes on Drawings

Insert here a list of Drawings. The actual Drawings, including site plans, should be attached to this section or annexed in a separate folder. The Drawings shall be dated, numbered and show the revision number.

Name of work:- Construction of Lam Neten's Residence at Namgyel Choiling Dratshang

Financial Year 2018-2019

Title :- BoQ (CIVIL WORKS)

SI No	BSR Code	Description of items	Qty	Unit	Rate in fig	Rate in words	Amount
		Site Development works					
1	CG0001	Clearing grass including removal of rubbish within 50m of site	247.35	sqm			
2	CG0010	Felling trees including cutting of trunks and branches, removal of roots, stacking of serviceable materials and disposal of rubbish within 50m lead, 300 to 600mm girth	9.00	Nos			
3	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	680.00	cum			
4	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, R/W foundation back side up to height 2.5 mtr and sides 1.5mtr height	29.99	cum			
5	SM0072	Providing and laying Hand packed stone filling or soling with stones, R/w back and two sides	15.72	cum			
6	CW0008	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work upto plinth level. 1:4:8 (1 cement : 4 sand : 8 graded crushed rock 40 mm nominal size), for R/w back and two sides	4.00	cum			

7	CW0022	Providing and laying in position plain cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. upto floor five level, excluding the cost of centering and shuttering , on top of R/W back and two sides, PCC 1:2:4, 20mm aggregate	1.09	cum			
8	RC0090	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of form work for R/walls	7.26	sqm			
9	SM0007	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth in 1:6 cement mortar including weep hole, 100x100mm @ 1000mm interval with good finishing	51.53	cum			
		PROVISIONAL ITEMS					
10 (a)	Hill rate MT(sl. 2)	Disposing / Transportation of excavated soil beyond 50m lead plus to designated area within the radius of 2km (850) cum, which is almost 141 truck loads as per the site location and instruction by Dzongkhag Administration	141.00	t/loads			
10 (b)		Repaired/correction of service able line,telephone, water supply, power supply line etc and replacement of pipes any sizes	1.00	job			
		FOOT PATH					
11	EW0020	Earth work in surface excavation, depth <300mm, width >1.5m, area >10 Sq.m in plan, including disposal of excavated earth within 50m lead & 1.5m lift and disposed soil to be neatly dressed, ordinary soil, depth up to required size,proposed site to existing residence drainage	22.50	sqm			

12	SM0072	Providing and laying Hand packed stone filling or soling with stones, for foot path	3.38	cum			
13	RC0090	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of form work, for foot path	3.00	sqm			
14	CW0005	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work upto plinth level, for foot path such as landing and steps where ever necessary as per land scape, rough finishing with 1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm, nominal size)	1.69	cum			
		BUILDING FOUNDATION WORKS					
15	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	107.22	cum			
16	SM0072	Providing and laying Hand packed stone filling or soling with stones , under foundations	13.70	cum			
17	CW0007	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work upto plinth level 1:3:6 (1 cement : 3 sand : 6 graded gravel/shingles 40 mm nominal size	9.19	cum			
18	SM0005	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth In cement mortar 1:4	87.54	cum			
		FORM WORKS					
19	RC0090	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork, foundation and plinth	62.20	sqm			

20	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, 12 mm dia main bar, with stirrups 8mm dia @ 150c/c complete for plinth band, and 10mm dia with stirrups 8mmdia @ 200c/c for window sill	850.38	kgs			
21	RC0003	Providing & laying in position reinforced cement concrete excluding the cost of centering, shuttering and reinforcement - all work upto plinth level, 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size) for RCC plinth band	9.22	cum			
22	EW0195	Filling of trenches, sides of foundations etc. in layers <200mm using selected excavated earth, ramming etc.within lead 50 m & lift 1.5m ,otal earth excavated foundation works (Sl No. 15 - 18) = 19.84	19.84	cum			
23	EW0197	Providing & laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing under rooms	31.43	cum			
		FLOORING WORKS UNDER ROOMS					
24	SM0072	Providing and laying Hand packed stone filling or soling with stones , under rooms	18.71	cum			
25	CW0008	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work upto plinth level 1:4:8 (1 cement : 4 sand : 8 graded crushed stone 40 mm nominal size), rough finishing under rooms	13.30	cum			
26	FL0050	Providing and laying cement concrete flooring 1:2:4, finished with floating coat of neat cement 12mm aggregates, 25mm thick (master and common toilet excluded being floor tiles provision)	112.46	cum			

		RRM WORKS FOR MAIN OUTER WALLS					
27	SM0005	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth In cement mortar 1:4, for main outer wall and syntax tank stand	50.72	cum			
		INTERNAL BRICK WALLS					
28	BW0003	Providing & laying Second-Class Brick work in Foundation & Plinth In cement mortar 1:5 for all internal walls	59.25	cum			
		WOOD WORKS					
29	WW0003	Providing & fixing in position dressed wood work in frames of doors, windows, clerestory windows and other frames,wrought and framed, Mixed Conifer for all windows and door farmes post, Dung, pem, kachung,	2.25	cum			
30	WW0045	Providing & fixing traditional wooden Tshegay for windows\railing etc. as per standard design, in mixed conifer, for all windows, w, w1 and verandha	2.90	sqm			
31	WW0039	Providing, making & fixing woodwork dressed in traditional cornices complete as per standard design in Mixed Conifer,including applying wood preservative on unexposed the cornice and wall junction line)surfaces, excluding decorative painting (Measurement to be taken along the cornic and wall junction) Lintel level, kha, Boo, and boo kheb on top of W, w1 and main door (D)	19.20	mtr			
32	WW0325	Providing & fixing security bar , 16 mm dia M.S. round plain rod in window frames as shown in the drawing, 4 Nos of rows to be provided on W and W1 and 3 Nos of rows in Ventilation	105.51	kgs			
		DOORS AND WINDOWS SHUTTERS					

33	WW0327	Providing & fixing ornamental steel grills in frames with,M.S. flats & bars including aluminium paint two coat, with steel primer,as per the designed drawing, with M.S flats strip, 10mm width and 5mm thick in opening windows complete , for w, w1 and V	142.00	kgs			
34	WW0221	Providing & fixing 38mm thick Panelled or glazed doors and windows Shutters etc. complete including, 6 inches long (3 Nos butt hinges) for doors shutters in mixed conifer for all internal doors and main door shutter	12.80	sqm			
35	WW0221	Providing & fixing 38mm thick Panelled or glazed doors and windows Shutters etc. complete including, 3 inches , of 3 numbers hinges per shutter for windows & 2 numbers hinges for ventilation shutters in mixed conifer as follows, for Window shutter (W) middle two shutter will remained fixed and for w1 windows, middle shutter will remained closed. The shutter will open inner	24.38	sqm			
		FITTINGS FOR SHUTTERS					
36	WW0516	Providing & fixing 150x12mm, with 25mm dia. wooden curtain rod and brackets including M.S flats 25x3x100mm and plugs and painting etc. complete in mixed conifer for all openings	25.92	mtr			
37	WW0655	Providing & fixing brass sliding door bolt with nuts necessary screws etc. complete, 300mm long for doors in main and internal doors	9.00	Nos			
38	WW0665	Providing & fixing brass handle with necessary screws etc. complete, 150mm for all shutters, both in and out for doors.one per opne shutter for windows and ventilation	38.00	Nos			

39	WW0646	Providing & fixing brass tower bolt (barrel type) with necessary screws etc. complete, main door shutter, 150mm inner side, and for internal doors, two numbers inner face.	18.00	Nos			
40	WW0647	Providing & fixing brass tower bolt (barrel type) with necessary screws etc. complete, For window shutters, 100mm, 2 numbers per shutter (W), For window shutters, 100mm, 2 numbers per shutter (W1),For ventilation shutters, 100mm, 2 numbers per shutter(V)	40.00	Nos			
41	WW0685	Providing & fixing bright finished brass hook-and-eye with necessary screws etc. complete, 150mm long , for w, w1 and ventilation	20.00	Nos			
42	WW0055	Providing & fixing Mixed Conifer (undressed) in wall frames etc for:- verandha post (150x150mm) and Tazi post (100x90mm)	0.60	cum			
43	WW0495	Providing & fixing railing with 90x60mm top & bottom rails, trellis 60x45mm including 2 coats of paint etc. all complete, for verandha tazi	7.80	mtr			
		ROOF BAND					
44	RC0090	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork, foundation and plinth	82.10	sqm			
45	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, 12 mm dia main , and stirrups 8mm dia @ 150c/c for roof band, including 10mm dai vertical as per drawing(31 Nos)	938.30	kg			

46	RC0003	Providing & laying in position reinforced cement concrete excluding the cost of centering, shuttering and reinforcement - all work upto plinth level, 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	8.66	cum			
47	RC0040	Bhutan type Traditional Cornices in R.C.C 1:2:4, 20 mm aggregate including cost of formwork including finishing with 6mm thick plaster on the exposed surface with cement mortar 1:3, excluding reinforcement & decorative painting cost as per standard design (Measurement to be taken along the cornice and wall junction) as per standard designed, Single Storied building, including boo kheh, Ka, Boo & pana /phana kheh complete, front and two side faces	36.40	mtr			
48	WW0060	Providing & fixing roof framing, in trusses, purlins, rafters, posts, post plates including hoisting, etc. (excluding steel items) Mixed conifer, as per the drawings	10.71	cum			
49	WW0030	Providing & fixing Eaves board (225x25mm) with moulding fitted and fixed with necessary screws in mixed conifer	73.40	mtr			
50	WW0021	Providing & fixing joists, including hoisting, applying wood preservative on unexposed surfaces , Mixed Conifer, ceiling joist @ 1000mm c/c (120x 100mm), wall plate (100 x100) with ceiling frames (100x100)	6.07	cum			
51	WW0132	Providing & fixing Plywood lining with necessary nails etc. including beading(2inch x 1 inch) complete (excluding cost of frame and painting), 6 mm, commercial, on all rooms, verandha and eave ceiling	204.95	sqm			

52	SW0080	Providing & fixing M.S. round hold-down bolts with nuts and washer plates, 300mm long, with 16mm dia, to fixed the wall plate and the roof band as per the instruction of the engineer @ 2000mm c/c	20.00	kgs			
53	SW0090	Providing, making and fixing M.S. straps, flats, sole plates etc, to all joints of a timber trusses as per the instruction of site Engineer	35.00	kgs			
54	WW0070	Providing & fixing gussets for timber trusses including wood preservative (coal tar), 12mm thick phenolic plywood, at the joint point of all trusses member, (Trusses T) as per the instruction of site Engineer (Provisional items)	30.00	sqm			
55	AMR	Providing and fixing ceiling hatch 650x650mm fixed with brass handle 150mm handle and butt hinges at any location	1.00	job			
56	WW0171	Providing & fixing Panelled or Panelled-&-Glazed partition, single-central-panelling including frame etc. 75mm framing, 38mm thick Mixed Conifer panelling (provisional items)only for sitting room and master bed room	104.73	sqm			
57	RF0003	Providing & fixing Pre Painted 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. 25G (0.50mm)	292.17	sqm			
58	RF0007	Providing & fixing 600mm ridges or hips in Pre Painted Steel sheets, including bolts, hooks and nuts 8mm dia G.I limpet and bitumen washers for connection, 25G (0.50mm)	45.50	mtr			

59	AMR	Providing and fixing on wall face single socketed rigid PVC (Working Pressure 4kgper sq.cm) rain water pipes including, jointing with seal ring leaving 10 mm gap for thermal expansion- complete including PVC hook with semicurlar of 180mm dia PVC Gutter	61.00	mtr			
60	PI0001	Providing & fixing G.I. pipes including G.I. fittings & clamps & repair walls,15mm	33.00	mtr			
61	PI0032	Providing & fixing plastic tank including all accessories (brass float valve size half inch , drainage pipe with 1/2" control valve, testing etc)complete,1000 litre capacity	1.00	Nos			
62	PI0041	Providing & fixing Indian-type vitreous china w.c squatting pan, including 100 mm H.C.I P or S trap, 10 lit low level vitreous,china cistern & fittings, repair walls,580mm, white Orissa-model, for common toilet	1.00	Nos			
63	PI0050	Providing & fixing European-type vitreous china w.c pedestal including seat and lid with c.p brass hinges, 15 lit white ,vitreous china low level cistern, fittings, brackets, repair walls,white, with plastic seat & lid for master toilet	1.00	Nos			
64	PI0075	Providing and fixing bath tubs with fittings and accessories complete,Porcelain, white enamelled, with a pair of 20mm C.P pillar tap, 40mm C.P brass waste, 32mm C.P brass over flow, rubber plug, 40mm C.P trap etc., telephonic shower standard size	1.00	Nos			

65	PI0086	Providing & fixing white vitreous china wash basin, including C.I brackets, 15mm C.P. brass pillar taps, c.p. chain & rubber plug, 32mm pvc waste, 32mm dia. trap & union, repair walls, Flat back wash basin 630x450mm with single 15mm c.p., for both toilets brass pillar taps	2.00	Nos			
66	PI0115	Providing & fixing pedestals for basins, white vitreous, china, recessed back for pipes and necessary fittings, for both toilets	2.00	Nos			
67	PI0123	Providing & fixing Kitchen Sinks including all connections and fittings, waste PVC pipe 32mm dia, Stainless steel, 940 x 460 x 160 mm, single bowl & drainboard for kitchen	1.00				
68	PI0164	Providing & fixing Electric water heater including necessary fittings, 50 liters for master toilet	1.00	Nos			
69	PI0163	Providing & fixing Electric water heater including necessary fittings, 35 liters for common toilet	1.00	Nos			
70	PI0162	Providing & fixing Electric water heater including necessary fittings, 25 liters for kitchen room	1.00	Nos			
71	PI0175	Providing & fixing C.P. Brass shower fittings, Shower with revolving joint, 15mm, for common toilet	1.00	Nos			
72	PI0185	Providing & fixing c.p. brass stop cock 15mm, standard, c.p knob, For master toilet (4 Nos), common toilet (3 Nos) kitchen (2 Nos)	9.00	Nos			
73	PI0205	Providing & fixing c.p. brass bibcock 15mm, standard vertical, c.p knob for both toilets	8.00	Nos			
74	PI0215	Providing & fixing c.p. brass mixers, 15mm, For basin, single-hole, casted spout, for toilet and kitchen	5.00	Nos			
75	PI0240	Providing & fixing Wall Spouts, C.p., standard, 15mm for toilets	2.00	Nos			

76	PI0250	Providing & fixing 600x450mm bevelled edge mirror, (superior glass) incl.4mm A.C sheet base fixed to wooden cleats for toilets	2.00	Nos			
77	PI0251	Providing & fixing 450x120mm glass shelf, including c.p,brass brackets fixed to wooden cleats for toilets	2.00	Nos			
78	PI0253	Providing & fixing c.p. towel rail 600 x 20mm with c.p,brass brackets fixed to wooden cleats for toilets	2.00	Nos			
79	PI0255	Providing & fixing c.p. towel ring for master bed room, near bath tube	1.00	Nos			
80	PI0263	Providing & fixing toilet paper holder, Recessed ceramic, roll-type, 150 x 150 mm for two toilets	2.00	Nos			
81	PI0270	Providing & fixing Liquid soap container, c.p, including c.p brass lid & brackets, wooden cleats, c.p brass screws for two toilet	2.00	Nos			
		Plumbing out doors					
82	PO0001	Providing & laying G.I. pipes including G.I. fittings (excluding trenching, refilling & thrust block), 15mm, from main pipe line to syntax to distribution line	45.00	mtr			
83	PO0372	Providing & fixing P.V.C soil waste and vent pipes, single or double socketed, including pipe clip complete (excluding the cost of PVC fittings), 110mm dia, Toilet to septic tank to Soak pit and vent pipe	23.00	mtr			
84	PO0370	providing and fixing 75mm dia for waste drainage pipe at toilets and kitchen out let	5.50	mtr			
85	PO0407	Providing & fixing P.V.C plain bend, 110mm dia for both toilets and Rain gutter	8.00	Nos			
86	PO0405	providing and fixing 75mm dia for waste drainage pipe	6.00	Nos			
87	PO0417	Providing & fixing P.V.C door bend, 110mm dia	2.00	Nos			

88	PO0415	providing and fixing 75mm dia for waste drainage pipe at toilets and kitchen out let	3.00	Nos			
89	PO0610	Constructing Septic Tanks, in R.R Masonry in cement mortar 1:6, including fittings, C.I cover with frame, 40mm thick, concrete flooring (40mm aggregates) cement plaster concrete base in C.C 1:4:8 etc. complete as per standard design, for 15 users	1.00	Nos			
90	PO0600	Constructing Soak Pit,Size 1200x1200x1200mm, filled with brick bats including 100mm SW drain pipe X 1200mm long	1.00	Nos			
		Tiles on walls and floor					
91	GL0005	Providing & fixing white/ coloured glazed tiles in flooring, treads of steps and landings laid on bed of 12mm thick cement,mortar 1:3 finished with flush pointing in white cement: for 150 x 150 mm, on toilets, sides wall and floors and on kitchen shelves	65.26	sqm			
92	GL0009	Providing & fixing white/ coloured glazed tiles in flooring, treads of steps and landings laid on bed of 12mm thick cement,mortar 1:3 finished with flush pointing in white cement: on sitting room floor(timber floor type design sizes 300x300mm) on sitting room only	29.00	sqm			
93	PL0021	Providing & laying 12mm cement plaster, C.M 1:4, inner and outer faces	442.93	sqm			
94	FL0130	Providing & laying Cement plaster skirting < 300mm height with cement mortar 1:3 with a floating coat of neat cement including rounding off junctions with floor, 20mm thick	25.82	sqm			
		painting works					

95	PT0040	Providing and applying finishing coats,Dry distemper, two coats on new work, including white priming coat, pal creame on inner face walls and white distemper on outer face wall and on ceiling	647.87	sqm			
96	PT0012	Providing & applying one coat of primers Wood work - pink primer on eave board linings	16.52	sqm			
97	PT0047	Synthetic enamel, for steel & wood work, two coats on new work for wooden eave board lining (red colour)	16.52	sqm			
98	PT0072	Providing and applying wood preservatives,Coal tar, two coats on new work of all roof trussess wood works including wood primer , except eave boards complete	1.00	job			
		Bhutanese painting					
99	PT0111	Providing, preparing and applying Sumdang washable painting, as per the Bhutases standard with differents flowers both outer and innerface complete, on all shutters and frames, railing and to RCC cornices, category (DING)	46.51	sqm			
100	PT0130	Providing, preparing and applying Yutshon painting (plain) Washable on verandha rainlings and post, internal door shutters , tazi etc	54.55	sqm			
102	PT0064	Providing and applying wood stains, varnishes & polishes,French polish - two coats, on new work on panneling area for sitting room and master bed room	104.73	sqm			

103	DR0031	Constructing second class brick masonry open surface drain in cement mortar 1:4 including earth work in excavation 100 mm, thick concrete bed 1:5:10, 40mm aggregate and 25mm thick cement concrete 1:2:4, 12 mm aggregate for filling haunches including 12mm cement plastering 1:4 with a floating coat of neat cement and disposal of surplus earth etc. complete, 150 x 200mm dept, back and front, sides and out let	70	mtr			
104	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), front , back and sides	79.3	sqm			
		RCC slab roofing at Exisiting Water tank					
105	RC0090	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of form work, for water tank RCC slab roofing	12.1	sqm			
106	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, 10mm dia both ways @300c/c	57.97	kgs			

107	CW0022	Providing and laying in position plain cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. upto floor five level, excluding the cost of centering and shuttering , 1:2:4, 20mm aggregate, RCC slab roofing water tank	1.21	cum			
108	PL0021	Providing & laying 12mm cement plaster, C.M 1:4 on water tank (Provisional) both inner and outer face	43.14	sqm			
109		CI man hole cover & frames					
	AMR	Providing and fixing standard CI man hole cover and frame for RCC water tank slab	1	Nos			

In Words:-

Name of contractor:-

Signature of contractor

Seal of contractor

BoQ, Electrical**Name of work: Electrification of Lam Zimchung at Nagaycholing Dratshang.**

Mode of wiring:-Recessed internal wiring.

Sl.#	Code	Description of items	Unit	Qty.	Rate in figures	Rates in Words	Amount
1		Supplying and fixing of PVC & HDPE pipe on recessed including all accessories such as screws, bends, elbows, Tees, corners, etc. complete as required					
	CD0221	25mm HDPE	mtr	250			
	CD0223	40mm HDPE	mtr	8			
2		Provide & Draw Single Core 1.1KV grade PVC insulated copper conductor cable in existing HDPE concealed pipe					
	WC0104	2x1.5 sq.mm	mtr	325			
	WC0116	2x2.5 sq.mm	mtr	85			
	WC0121	2x4 sq.mm	mtr	410			
	WC0095	1x1sq.mm	mtr	410			
3		Supplying & fixing of modular metal boxes for switch/socket outlet/switch socket combined/ gang switches with fibre sheet cover including painting etc as required					
	BX0050	Modular metal box 1 way	each	2			
	BX0051	Modular metal box 2 way	each	1			
	BX0052	Modular metal box 3way for power socket	each	17			
	BX0053	Modular metal box 4 way	each	3			
	BX0054	Modular metal box 6 way	each	3			
	BX0056	Modular metal box 8 way	each	1			

4		Supplying & fixing of 10A switch on existing metal box (recessed or surface) including necessary cutting, connection testing etc. as required.PVC/metal / moulded tough					
	SS0060	10A switch SP 1-way	each	30			
	SS0075	Dimmer/regulator 300W	each	5			
	SS0107	Ceiling Rose, 2 plate (PVC) 6A	each	24			
		call bell awitch					
5		Supplying & fixing of socket outlet on existing PVC /metal/ moulded tough surface box/ metal box (recessed or surface) including necessary cutting, connection testing etc. as required					
	SS0187	5/6-pin, 20A socket outlet, shuttered	each	16			
	SS0176	5 pin universal socket outlet	each	5			
	SS0137	TV coxcial socket	each	2			
	SS122	bell push 6A	each	1			
	SS0136	RJ 11 telephone socket	each	2			
6		Supplying & fixing of switch/socket on existing PVC /metal/ moulded tough surface box, metal box (recessed or surface)/ junction box (PVC/metal) including necessary cutting, connection testing etc as required.					
	SS0185	20A switch SP 1 way	each	16			
	INDOOR LUMINIARIES (Category A)						

7		Supplying of prewired indoor LED DELITE PLUS batten 22W 6500k ,105lumine/watt cool day light decorative slim linear LED batten 1185mm aluminum channel square profile suitable for wall and ceiling LHEXBTP7INISO22					
	MR	LED Batten 22W havells makes	each	32			
8		Supplying of prewired indoor surface/ceiling mounted luminaires suitable for LED lamp for maximum wattage upto 1x12 watts complete with all accessories such as base, holder, glass globe etc.					
	MR	LED 12W Globe dia 150, projection 215mm	each	2			
	MR	LED 9W Globe dia 150, projection 215mm.	each	2			
9		Supplying of prewired indoor wall mounted wall brackets luminaires suitable for GLS, CFL & LED lamps for wattage upto 2x60/1x60 watts complete with all accessories such as base, holder, glass globe, etc etc. but without lamp					
	IL0080	Double wall bracket upward projection 200mm, height 275mm finish-painted globe 360/400mm dia.. glass milky/ frosted, 2x60W	each	4			
	IL0082	Single swivel wall bracket down lighter, projection 375mm, height 250mm finish painted with switch, 1x60W	each	4			

10		Supplying of prewired indoor mirror/picture light luminaries suitable for GLS,CFL & LED lamps for wattage upto 2x60/1x60 watts complete with all accessories such as base, holder, glass globe, etc. but without lamp					
	IL0097	Single picture down lighter, projection 200mm, height 100mm, length 360mm,finish painted, 1x60W		2			
11		Supplying of prewired call bell 250 volt A.C with base, terminal block and all accessories complete					
	IL0246	Buzzer bell assembly		1			
12		Supplying of prewired outdoor bulk head fittings luminaries having die cast aluminium body, prismatic heat resistant glass cover held in the weather proof gasket, MS galvanised wire guard, etc. suitable for GLS, CFL & LED lamps for wattage upto 1x100/1x60 watts complete with all accessories such as base, holder,glass, reflector, louvered, etc. complete but without lamp					
	OL0015	Projection 100mm, height 220mm, width 125mm, finish-painted, 1x60/100W		5			
13		Supplying of LED tube light 240 volts A.C					
	LS0130	9W		16			
		POWER CABLE					
14		Supplying of 2 Core 1.1KV grade PVC insulated and sheathed aluminium conductor armoured power cables:					

	PC0124	16 sq.mm 2 core armoured	mtr	60			
15		Laying of 1 number PVC insulated sheathed power cable copper/aluminium, armoured/un-armoured 1.1KV grade from single core to four core direct in the ground including excavation,sand cushioning,protective covering,and refilling the trenches etc. as required					
	CL0002	Above 6sq.mm to 25sq.mm	mtr	45			
		FAN(supply)					
16		Supplying of ceiling fan 240 volt A.C 1400 rpm with all accessories such as down rod, sweep 3 Nos., canopy 2 No., condenser and fan body etc. complete as required:					
	FN0002	1200mm sweep 1400rpm	each	5			
17		Supplying of exhaust fan 240 volt A.C 1400 rpm with all accessories such as frame with arm 3 Nos., sweep 3 Nos., condenser and fan body etc. complete as required					
	FN0031	380mm sweep		1			
18		Supplying of Aluminium louveres for exhaust fan complete all accessories as required					
	FN0046	380mm sweep		1			
		CONTROL GEAR					
19		Supply of loadkontak isolator double pole, 230 volt A.C complete with all accessories suitable to fix on a din-bar etc. as required					
	GB0381	MCB DP 63A	each	2			

20		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					
	GB0270	SP MCB 6A	each	2			
	GB0272	SP MCB 16A	each	14			
21		Supply of residual current circuit breaker (RCCB) 2 pole, 230 volt A.C complete with all accessories suitable to fix on a din-bar etc. as required:					
	GB0429	ELCB/RCCB 63A 30mA	each	1			
22		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					
	GB0527	4 way	each	3			
	GB0530	18 way	each	1			
23		Providing & fixing of mixed conifer seasoned wood in recessed 550x300x200mm deep with locking arrangement and cover with chicken mess wire including all necessary required					
	MR	Wooden DB Box 200x 200x 200mm	each	1			
		Erection/installation					
24		Installation, testing and commissioning of exhaust fan upto 450mm sweep the existing opening including making the hole to suit the size of the indicated fan making good the damages, and connection with PVC insulated copper conductor					
	EI0120	1 sq.mm single core cable 1.1 KV grade		1			

25		Installation of aluminium louvers/shutters complete with a frame of all sizes in the existing opening including making good as required					
	EI0150	Exhaust fan upto 510mm sweep		1			
26		Installation, testing and commissioning of prewired fluorescent fittings of all recessed type complete with all accessories and tubes including on ceiling including connection with PVC insulated copper conductor					
	EI0081	1.5 sq.mm single core cable 1.1 KV grade	each	11			
27		Installation, testing and commissioning of SPN DB (DIN type) with no door or archylic door complete with all accessories to accommodate incoming RCCB DP 63A sensitivity 30/100/300mA and outgoing SP MCB 6/10/16A prefabricated MS surface / MS cubical control panel b					
	EI0515	12 way	each	1			
28		Installation, testing and commissioning of all size ceiling fan and regulator including wiring the down rod of standard length upto 300mm with PVC insulated copper conductor					
	EI0096	1.5sqmm single core cable 1.1 kV grade	each	5			
		Earthing					

29		Providing and fixing of maintenance free Chemical earthing of 70mm dia 2.5m length earthing including all accessories, machinery enclosure, C.I cover plate having locking arrangement, refilling work including mixed compound t complete as required as per standard earthing					
	MR	Copper earth electrode 70mm 2500mm length	each	1			
30		Providing and laying of earth connection from electrode in 4.06mm dia copper earth electrode					
	ET0046	with 4.06mm dia 8 SWG copper . Wire	m	25			
31		Supplying and fixing of Digital Energy meter 20 -40 A from ESD recommendations including security money and thimble connection as required complete including IPC etc.					
	MR	SP 10-60A Digital Energy Meter	set	1			

Total for Electrical

Total for civil

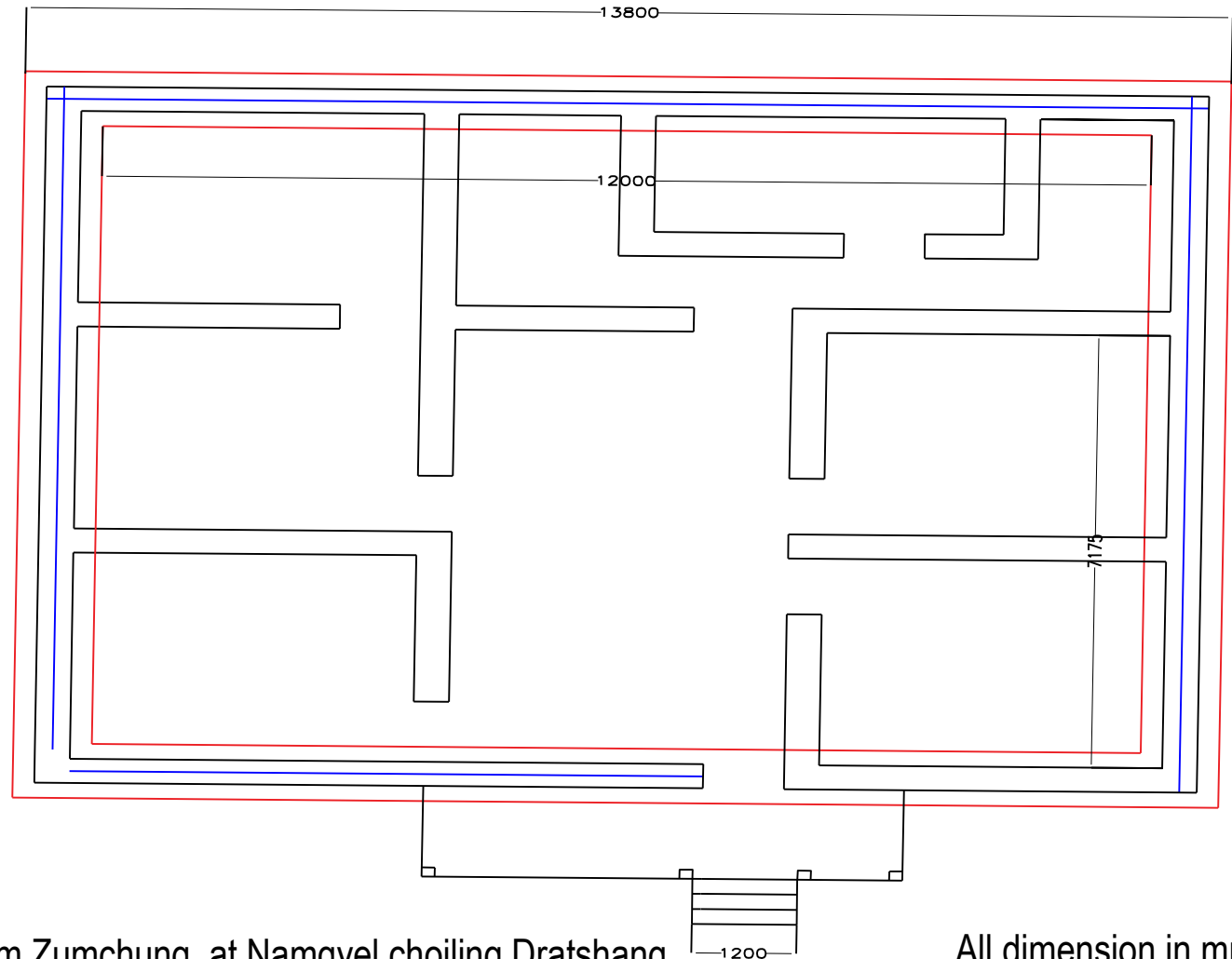
**Grand Total (Electrical
& Civil)**

Rebate if any:-

Net Quoted Amount:-

Nu. In words:-

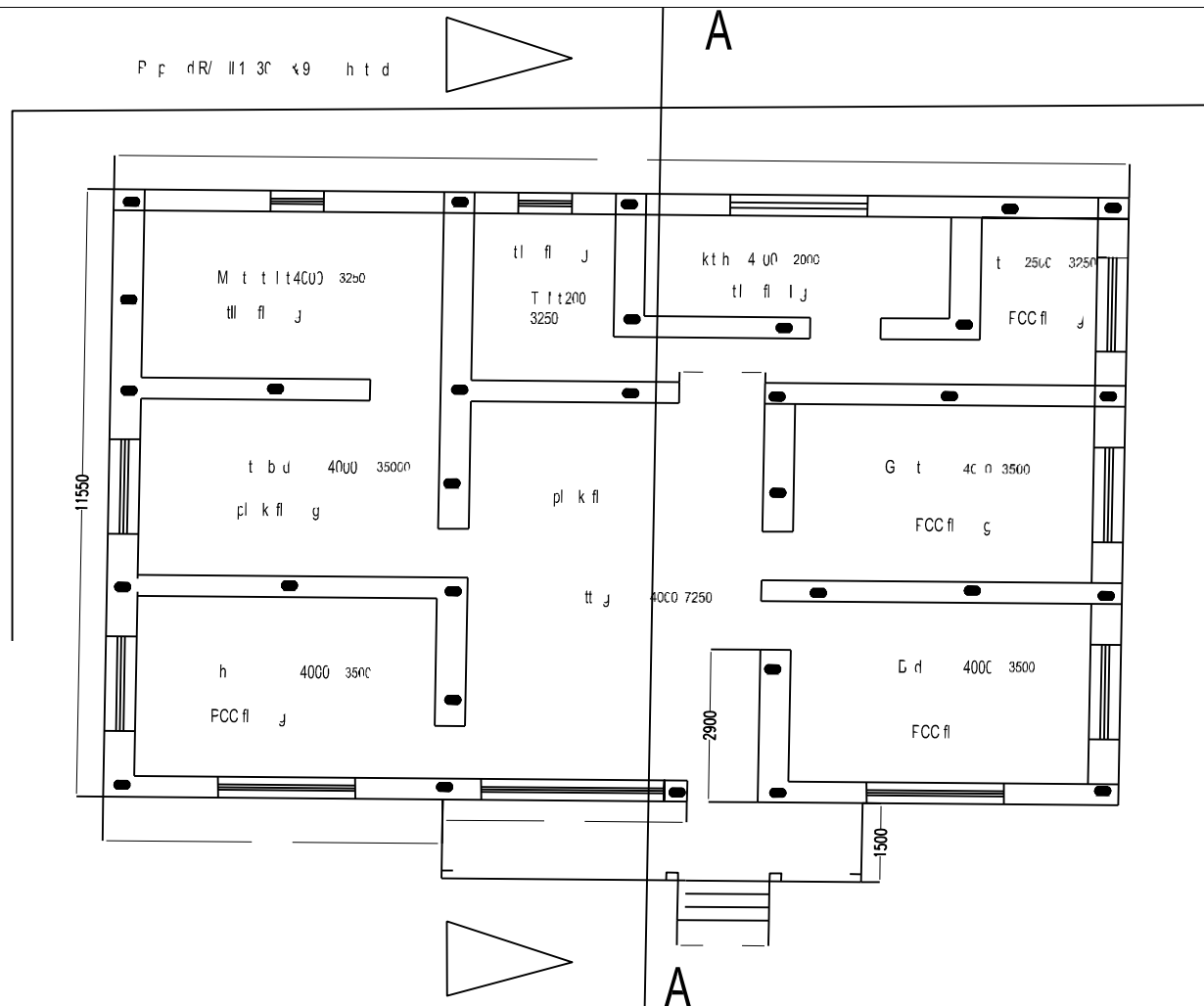
Singature of contractor with seal



Title:- Construction of Lam Zumchung at Namgyel choiling Dratshang

All dimension in mm

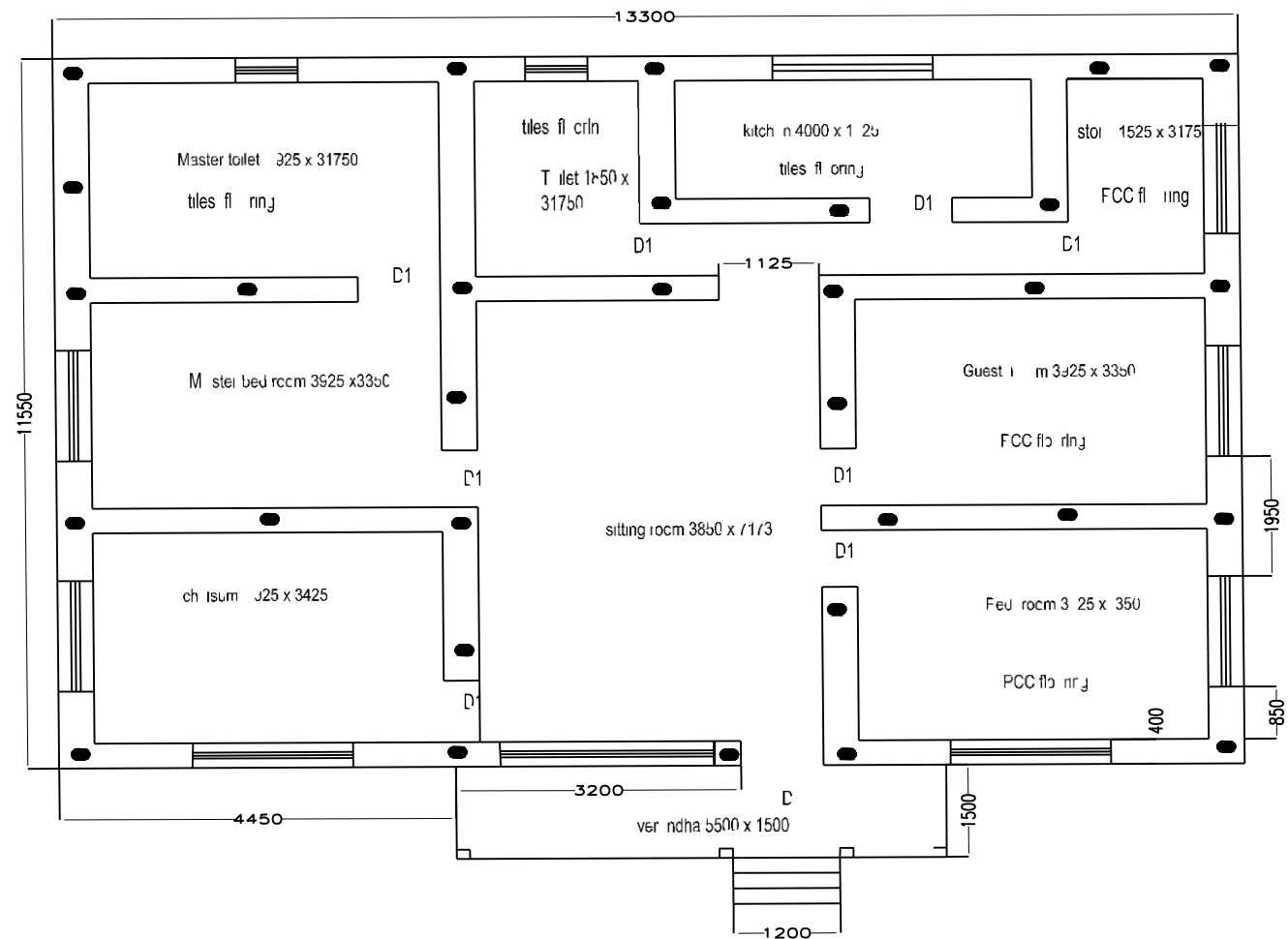
ROYAL GOVERNMENT OF BHUTAN DZONGKHAG ADMINISTRATION TSIRANG, ENGINEERING CELL	Drawn by:-	Scale:-	Name of drawing:-
	Checked by:- Dzongkhag Engineer	Drawing No:- 04	Foundation layout plan Approved by:- Department of cultural



Title:- Construction of Lam Zumchung at Namgyel choiling Dratshang

All dimension in mm

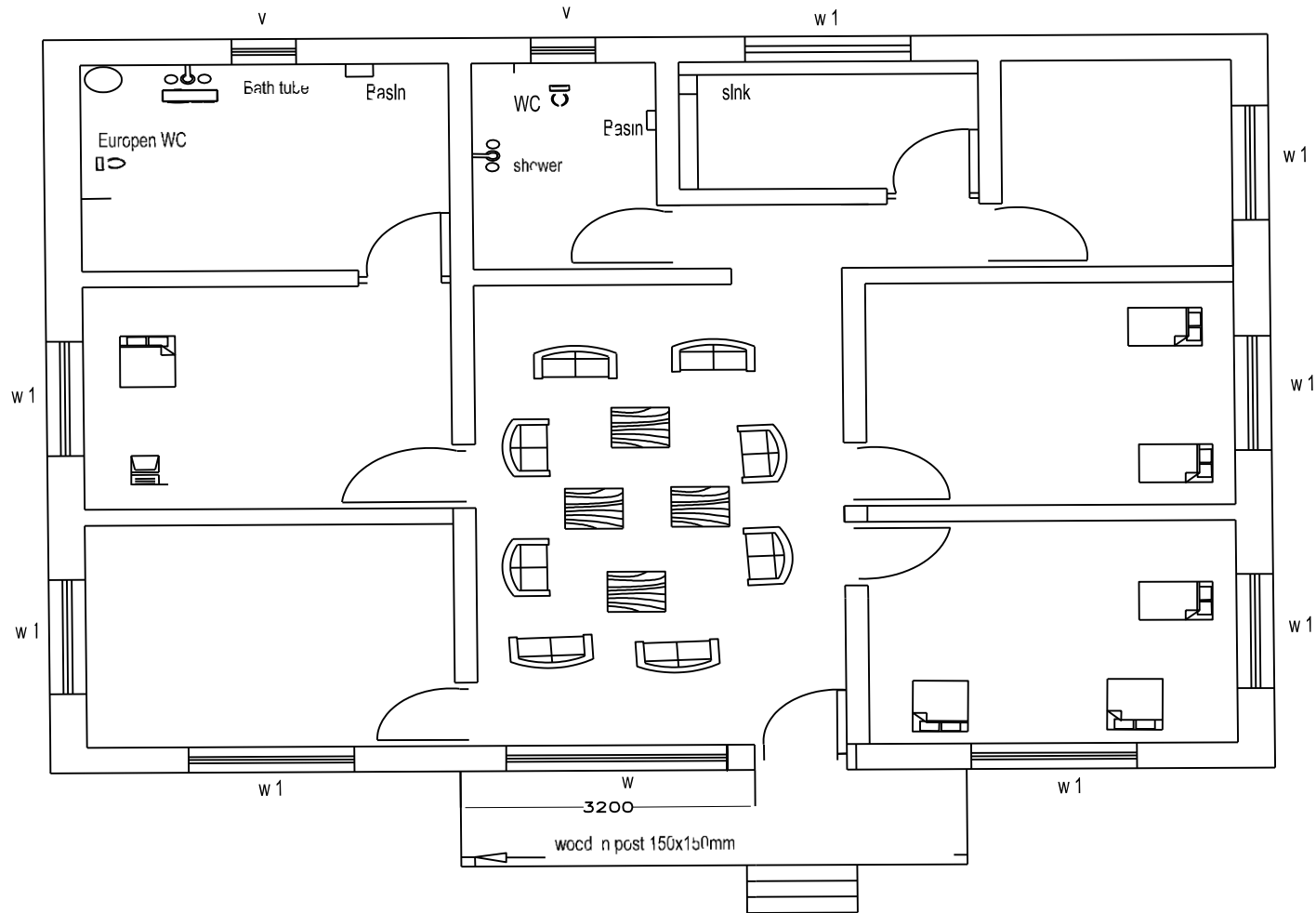
ROYAL GOVERNMENT OF BHUTAN DZONGKHAG ADMINISTRATION TSIRANG, ENGINEERING CELL	Drawn by:-	Scale:-	Name of drawing:-
	Checked by:- Dzongkhag Engineer	Drawing No:- 01	Building plan Approved by:- Department of cultural



Title:- Construction of Lam Zumchung at Namgyel choiling Dratshang

All dimension in mm

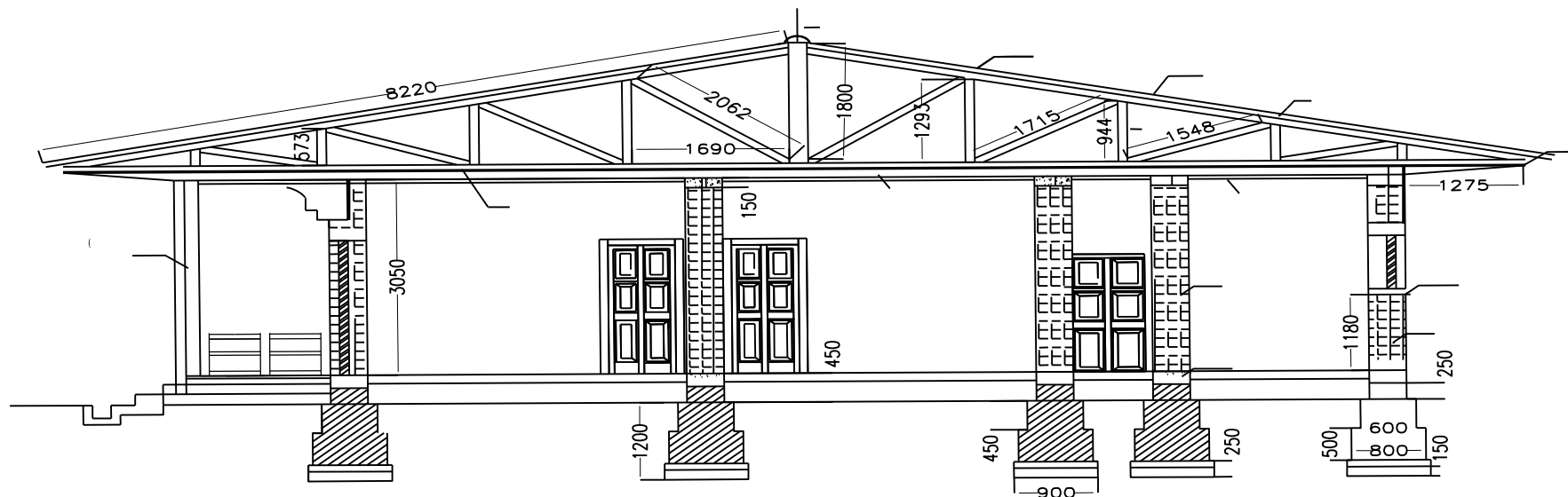
ROYAL GOVERNMENT OF BHUTAN DZONGKHAG ADMINISTRATION TSIRANG, ENGINEERING CELL	Drawn by:-	Scale:-	Name of drawing:- Lay out plan
	Checked by:- Dzongkhag Engineer	Drawing No:- 02	Approved by:- Department of cultural



Title:- Construction of Lam Zumchung at Namgyel choiling Dratshang

All dimension in mm

ROYAL GOVERNMENT OF BHUTAN DZONGKHAG ADMINISTRATION TSIRANG, ENGINEERING CELL	Drawn by:-	Scale:-	Name of drawing:-
	Checked by:- Dzongkhag Engineer	Drawing No:- 03	Room layout plan Approved by:- Department of cultural



Title:- Construction of Lam Zumchung at Namgyel choiling Dratshang

All dimension in mm

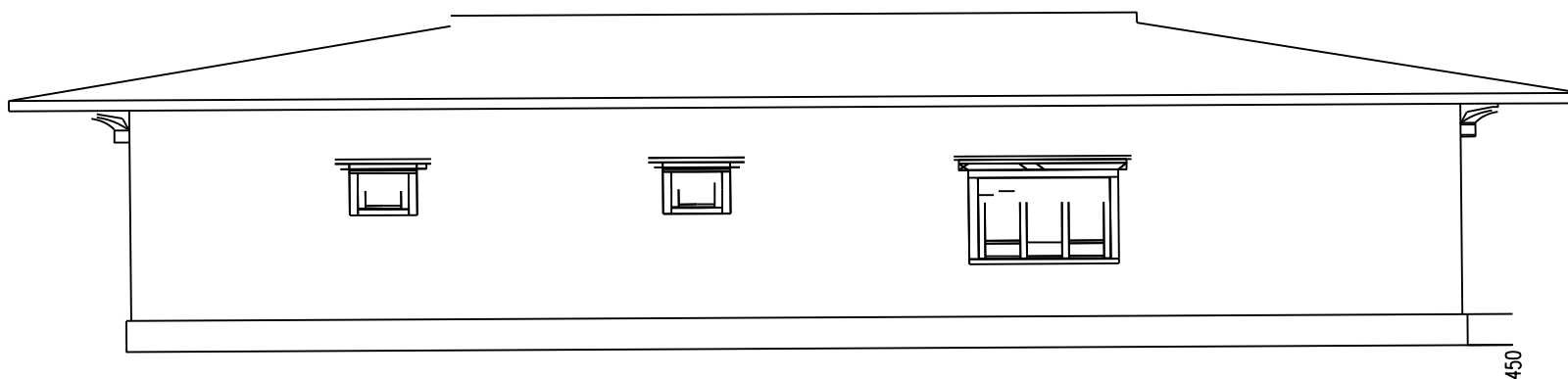
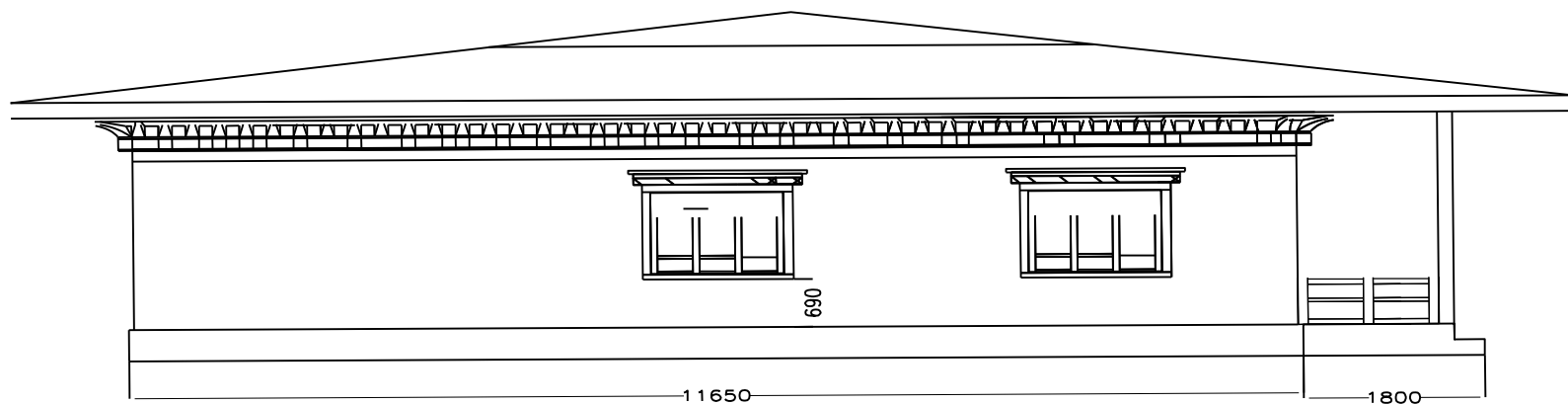
ROYAL GOVERNMENT OF BHUTAN DZONGKHAG ADMINISTRATION TSIRANG, ENGINEERING CELL	Drawn by:-	Scale:-	Name of drawing:-
	Checked by:- Dzongkhag Engineer	Drawing No:- 05	cross section Approved by:- Department of cultural



Title:- Construction of Lam Zumchung at Namgyel choiling Dratshang

All dimension in mm

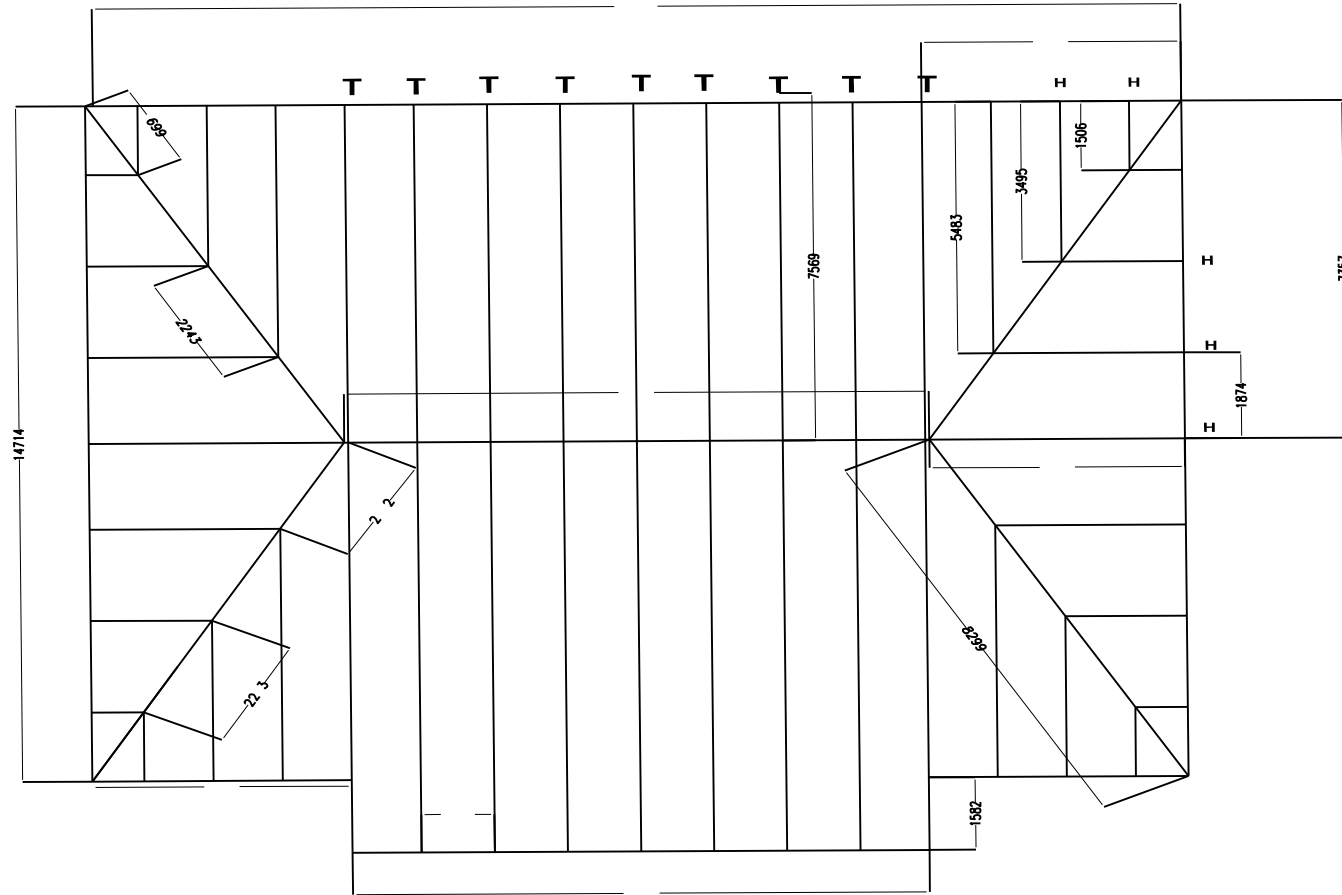
ROYAL GOVERNMENT OF BHUTAN DZONGKHAG ADMINISTRATION TSIRANG, ENGINEERING CELL	Drawn by:-	Scale:-	Name of drawing:-
	Checked by:- Dzongkhag Engineer	Drawing No:- 06	Front and side elevation Approved by:- Department of cultural



Title:- Construction of Lam Zumchung at Namgyel choiling Dratshang

All dimension in mm

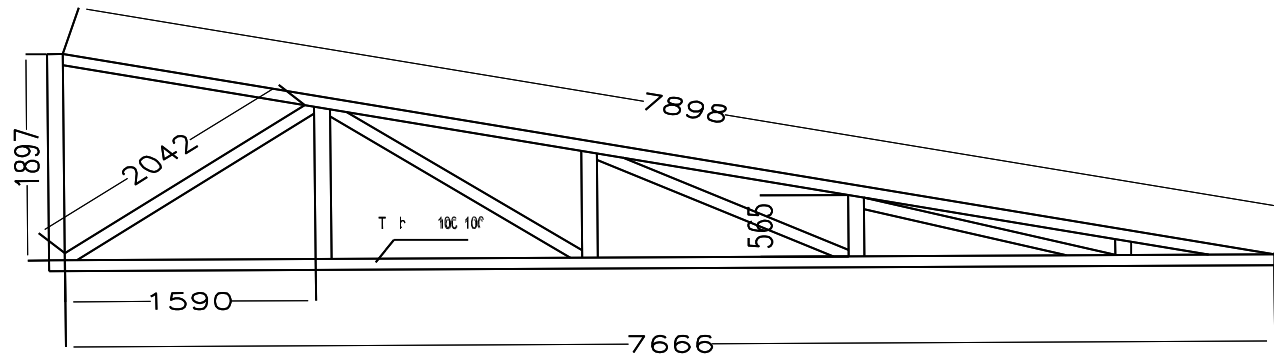
ROYAL GOVERNMENT OF BHUTAN DZONGKHAG ADMINISTRATION TSIRANG, ENGINEERING CELL	Drawn by:-	Scale:-	Name of drawing:- Back and side elevation
	Checked by:- Dzongkhag Engineer	Drawing No:- 07	Approved by:- Department of cultural



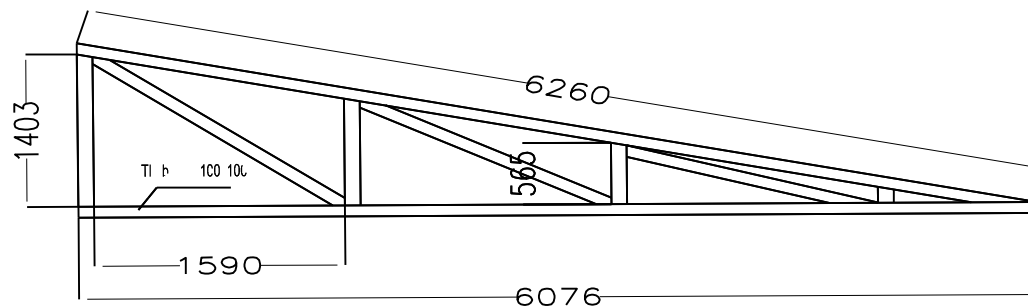
Title:- Construction of Lam Zumchung at Namgyel choiling Dratshang

All dimension in mm

ROYAL GOVERNMENT OF BHUTAN DZONGKHAG ADMINISTRATION TSIRANG, ENGINEERING CELL	Drawn by:-	Scale:-	Name of drawing:-
	Checked by:- Dzongkhag Engineer	Drawing No:- 08	Roof truss layout plan Approved by:- Department of cultural



HIP Trusess (4 nos)

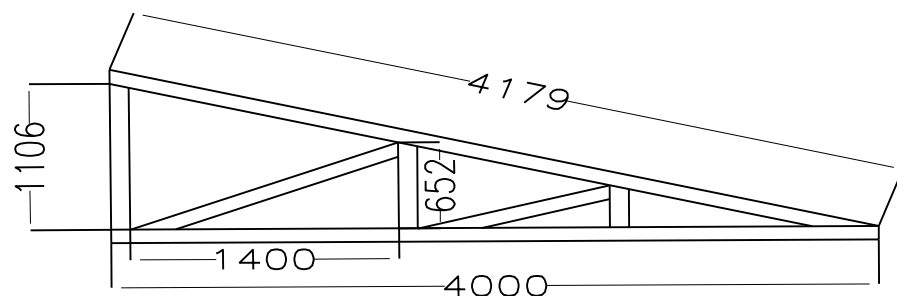


HIP Trusess H1(4Nos)

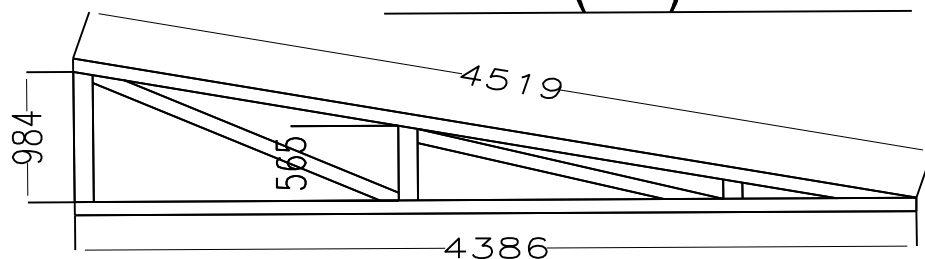
Title:- Construction of Lam Zumchung at Namgyel choiling Dratshang

All dimension in mm

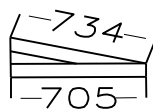
ROYAL GOVERNMENT OF BHUTAN DZONGKHAG ADMINISTRATION TSIRANG, ENGINEERING CELL	Drawn by:-	Scale:-	Name of drawing:-
	Checked by:- Dzongkhag Engineer	Drawing No:- 09	Roof truss details Approved by:- DLTC



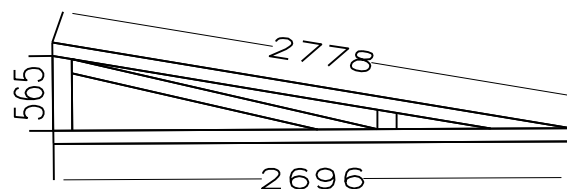
Truss (H7) = 2 Nos



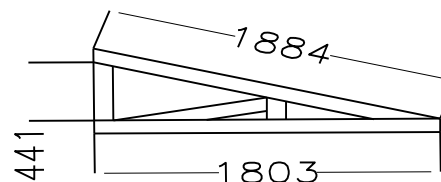
HIP Trusess H2(4Nos)



Hip Trusess (H 4) = 4 Nos



HIP Trusess H3(4Nos)

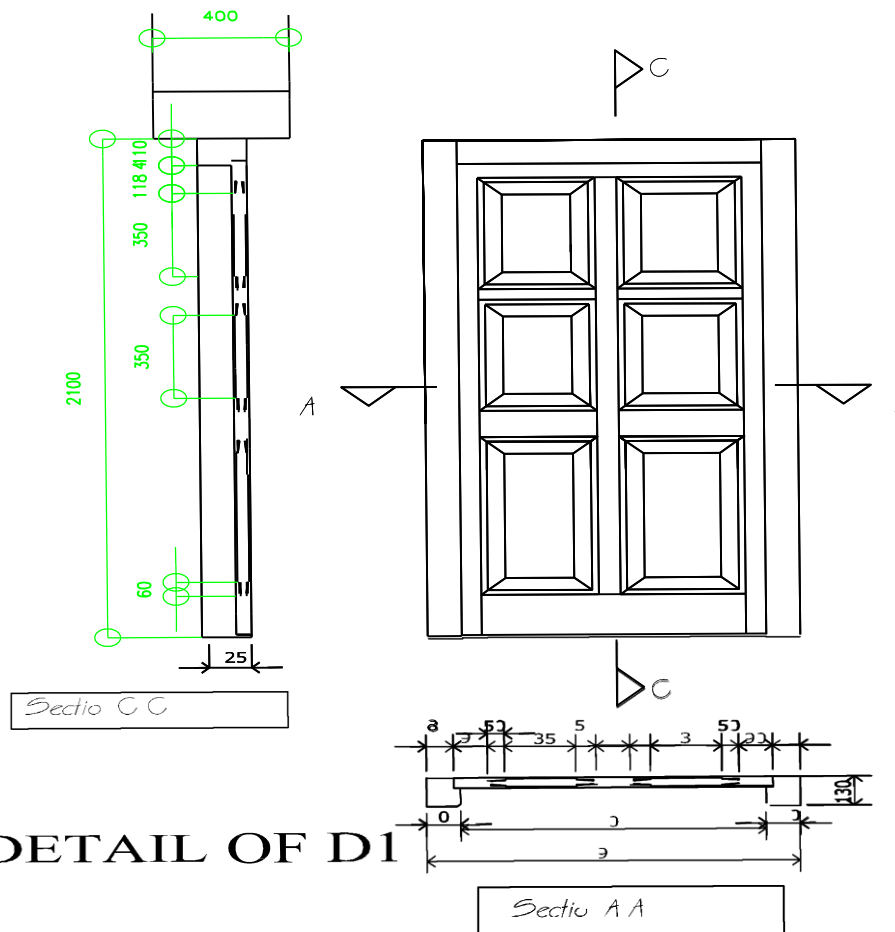


Hip Trusess (H5) = 4 Nos

Title:- Construction of Lam Zumchung at Namgyel choiling Dratshang

All dimension in mm

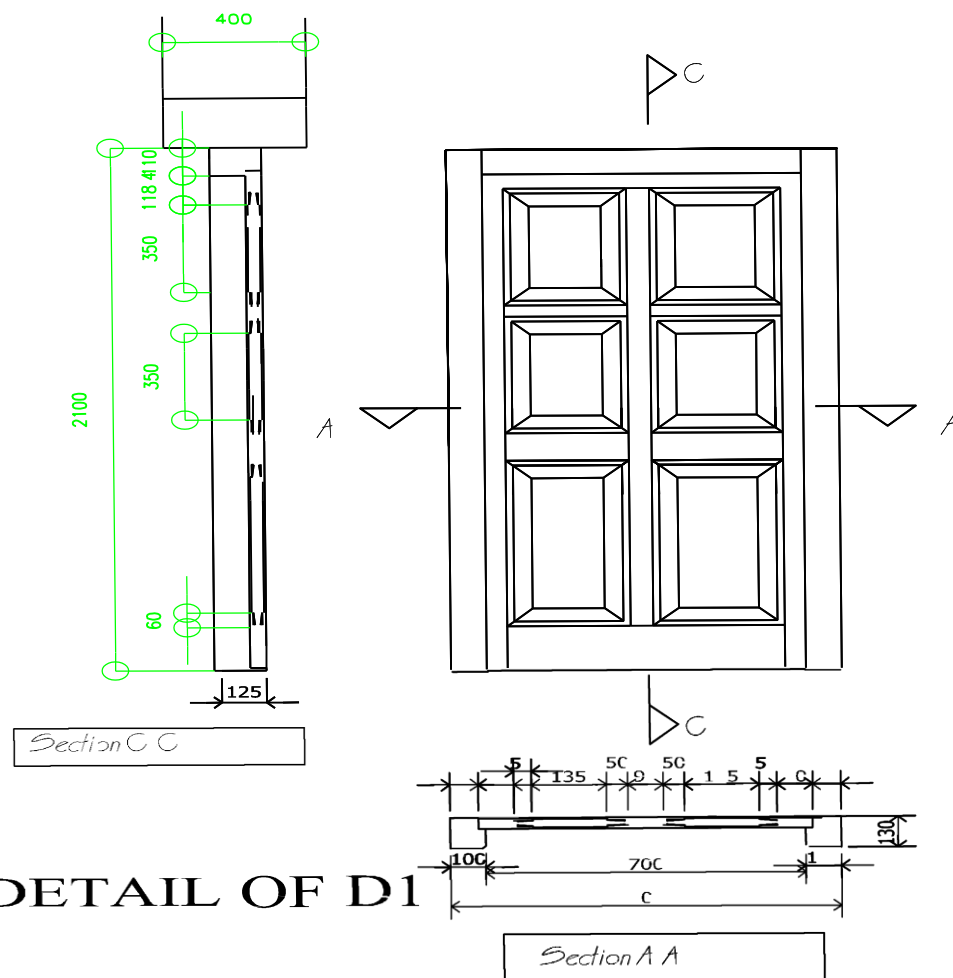
ROYAL GOVERNMENT OF BHUTAN DZONGKHAG ADMINISTRATION TSIRANG, ENGINEERING CELL	Drawn by:-	Scale:-	Name of drawing:-
	Checked by:- Dzongkhag Engineer	Drawing No:- 10	Roof truss details Approved by:- DLTC



Title:- Construction of Lam Zumchung at Namgyel choiling Dratshang

All dimension in mm

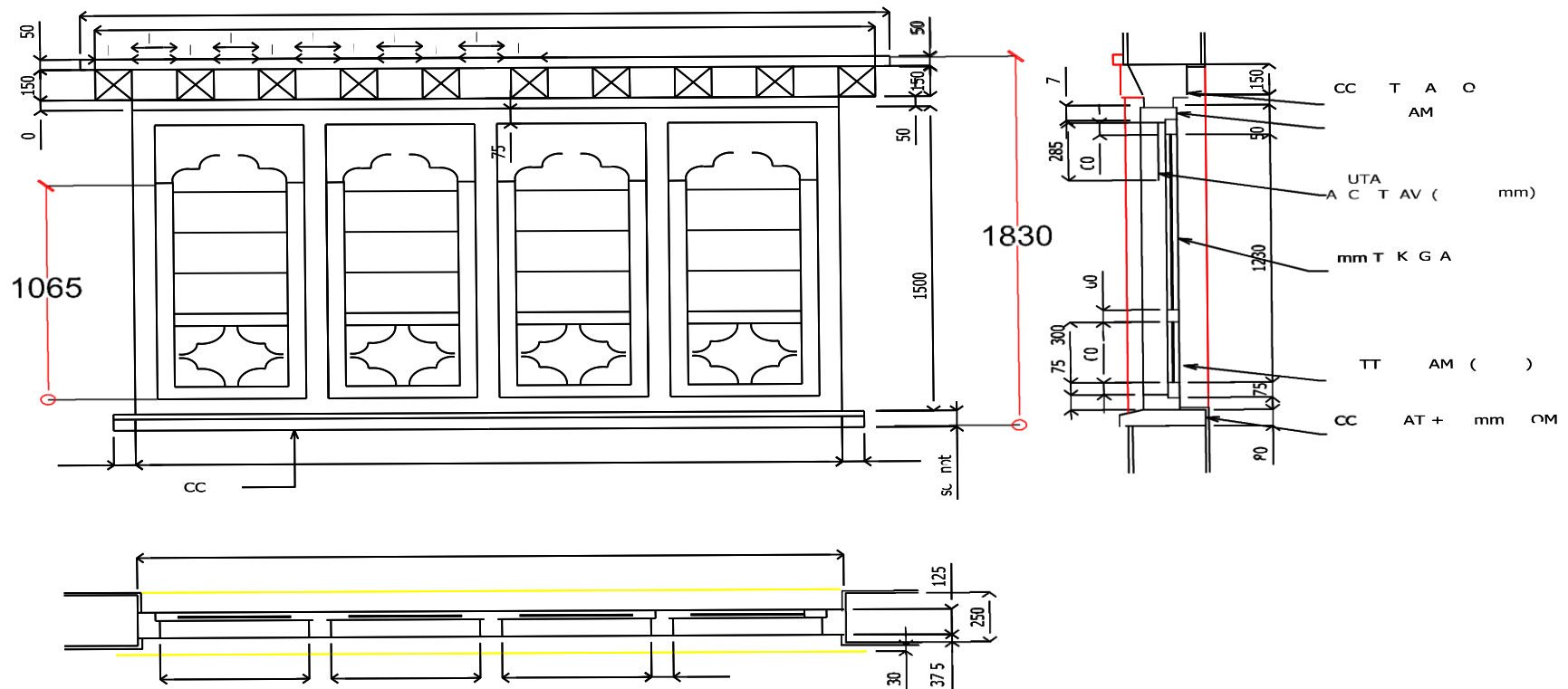
ROYAL GOVERNMENT OF BHUTAN DZONGKHAG ADMINISTRATION TSIRANG, ENGINEERING CELL	Drawn by:-	Scale:-	Name of drawing:- internal doors details
	Checked by:- Dzongkhag Engineer	Drawing No:- 11	Approved by:- DoC



Title:- Construction of Lam Zumchung at Namgyel choiling Dratshang

All dimension in mm

ROYAL GOVERNMENT OF BHUTAN DZONGKHAG ADMINISTRATION TSIRANG, ENGINEERING CELL	Drawn by:-	Scale:-	Name of drawing:- Main door details
	Checked by:- Dzongkhag Engineer	Drawing No:- 12	Approved by:- DoC

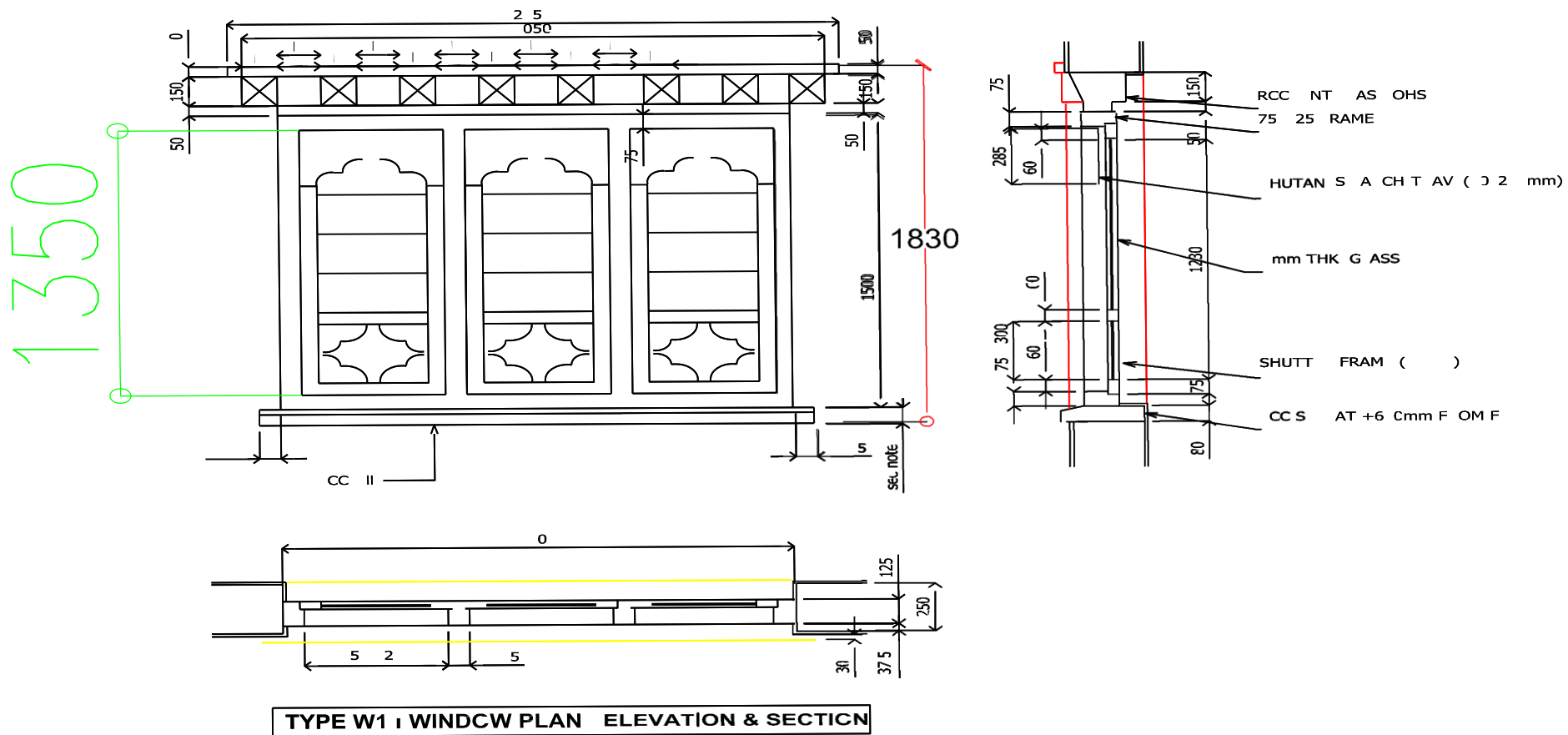


TYPE W I WINDOW PLAN ELEVATION & SECTION

Title:- Construction of Lam Zumchung at Namgyel choiling Dratshang

All dimension in mm

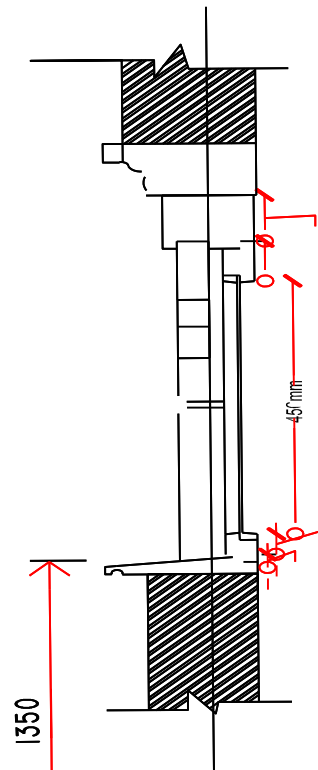
ROYAL GOVERNMENT OF BHUTAN DZONGKHAG ADMINISTRATION TSIRANG, ENGINEERING CELL	Drawn by:-	Scale:-	Name of drawing:-
	Checked by:- Dzongkhag Engineer	Drawing No:- 13	Main window details(W) Approved by:- DoC



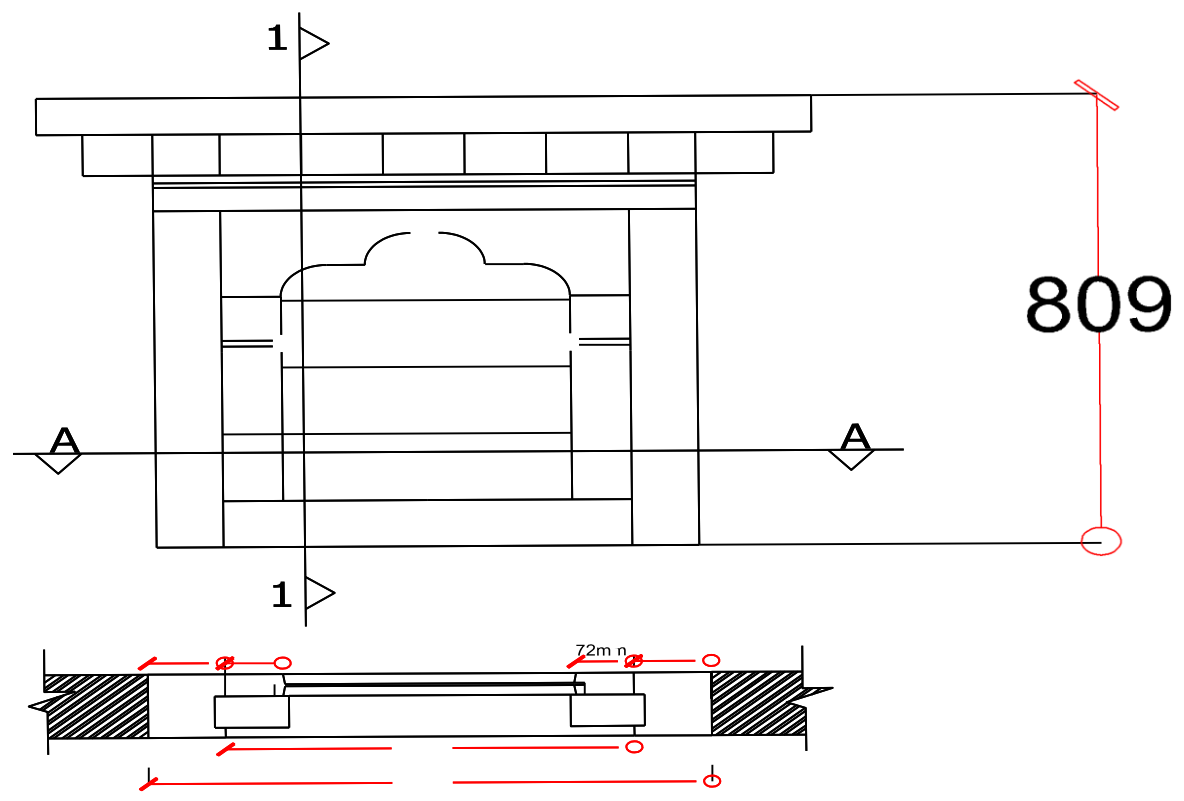
Title:- Construction of Lam Zumchung at Namgyel choiling Dratshang

All dimension in mm

ROYAL GOVERNMENT OF BHUTAN DZONGKHAG ADMINISTRATION TSIRANG, ENGINEERING CELL	Drawn by:-	Scale:-	Name of drawing:- Windows details(W1)
	Checked by:- Dzongkhag Engineer	Drawing No:- 14	Approved by:- DoC



FFL



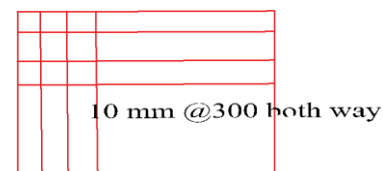
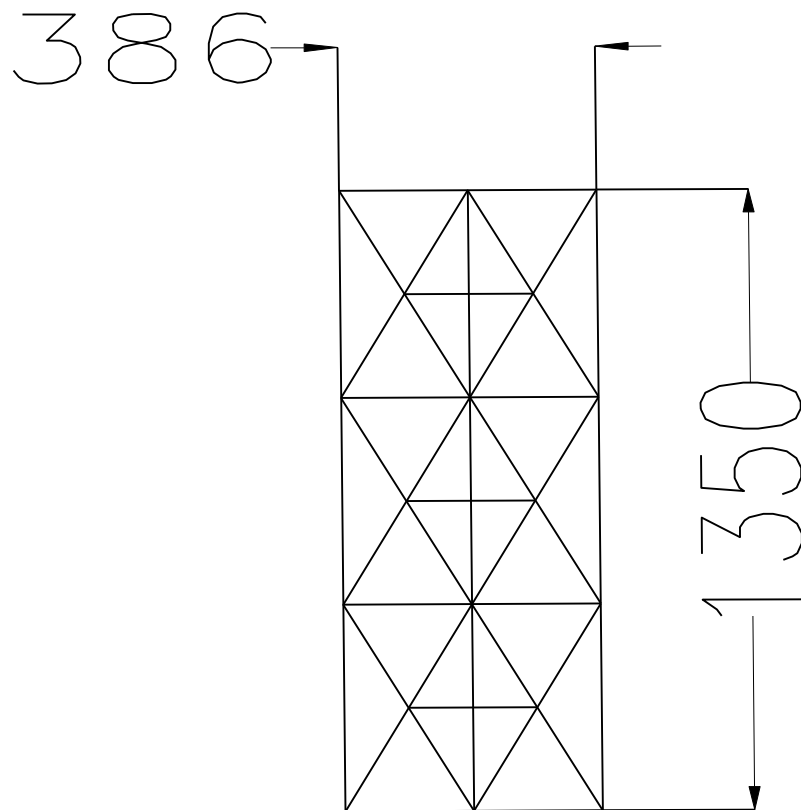
Section A-A

Title:- Construction of Lam Zumchung at Namgyelchoiling Dratshang

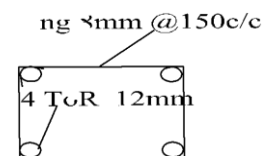
All dimension in mm



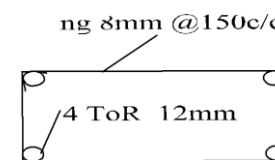
ROYAL GOVERNMENT OF BHUTAN DZONGKHAG ADMINISTRATION TSIRANG, ENGINEERING CELL	Drawn by:-	Scale:-	Name of drawing:- Ventilation details(v)
	Checked by:- Dzongkhag Engineer	Drawing No:- 15	Approved by:- DoC



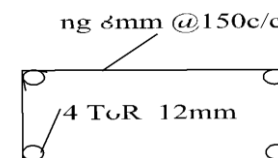
Water tank RCC floor slab of size 4400x2700 160mm thick



RCC Roof band 250x200mm



RCC Lintel band 400x 200



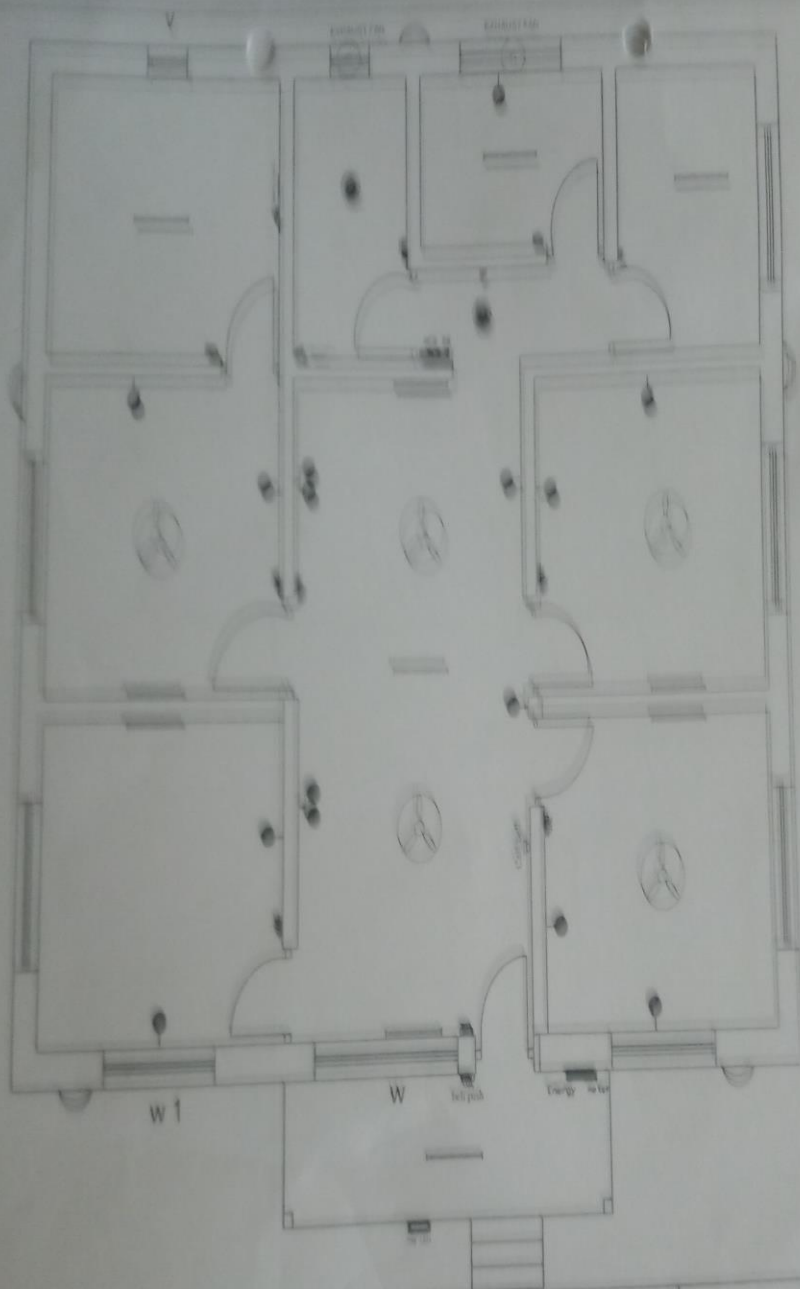
RCC Base band 400 x 150

Window grilled, MS flat, 10mmx5mm

Title:- Construction of Lam Zumchung at Namgyel choiling Dratshang

All dimension in mm

ROYAL GOVERNMENT OF BHUTAN DZONGKHAG ADMINISTRATION TSIRANG, ENGINEERING CELL	Drawn by:-	Scale:-	Name of drawing:-
	Checked by:- Dzongkhag Engineer	Drawing No:- 16	window grilled rcc bands Approved by:- DLTC



	100V AC
	240V AC
	415V AC
	11kV AC
	33kV AC
	132kV AC
	220kV AC
	400kV AC
	765kV AC
	1100kV AC
	1500kV AC
	2200kV AC
	3300kV AC
	4400kV AC
	5500kV AC
	6600kV AC
	7700kV AC
	8800kV AC
	9900kV AC
	11000kV AC
	12000kV AC
	13000kV AC
	14000kV AC
	15000kV AC
	16000kV AC
	17000kV AC
	18000kV AC
	19000kV AC
	20000kV AC
	21000kV AC
	22000kV AC
	23000kV AC
	24000kV AC
	25000kV AC
	26000kV AC
	27000kV AC
	28000kV AC
	29000kV AC
	30000kV AC
	31000kV AC
	32000kV AC
	33000kV AC
	34000kV AC
	35000kV AC
	36000kV AC
	37000kV AC
	38000kV AC
	39000kV AC
	40000kV AC
	41000kV AC
	42000kV AC
	43000kV AC
	44000kV AC
	45000kV AC
	46000kV AC
	47000kV AC
	48000kV AC
	49000kV AC
	50000kV AC
	51000kV AC
	52000kV AC
	53000kV AC
	54000kV AC
	55000kV AC
	56000kV AC
	57000kV AC
	58000kV AC
	59000kV AC
	60000kV AC
	61000kV AC
	62000kV AC
	63000kV AC
	64000kV AC
	65000kV AC
	66000kV AC
	67000kV AC
	68000kV AC
	69000kV AC
	70000kV AC
	71000kV AC
	72000kV AC
	73000kV AC
	74000kV AC
	75000kV AC
	76000kV AC
	77000kV AC
	78000kV AC
	79000kV AC
	80000kV AC
	81000kV AC
	82000kV AC
	83000kV AC
	84000kV AC
	85000kV AC
	86000kV AC
	87000kV AC
	88000kV AC
	89000kV AC
	90000kV AC
	91000kV AC
	92000kV AC
	93000kV AC
	94000kV AC
	95000kV AC
	96000kV AC
	97000kV AC
	98000kV AC
	99000kV AC
	100000kV AC



Name of Work :- Electrification of Lam Zimchung at Dratshang

Sector :- Culture

(DW No- E/1)

Title :- Lighting fittings layout plan

Approved by:

Design & drawn by:

Checked by:

Checked by:

Colson Tamang (AE/Elect)

Electrical Engineer

Dratshang

Inspector Note

Do not measure from the Drawing
Please consult with Engineers office
of Dept.

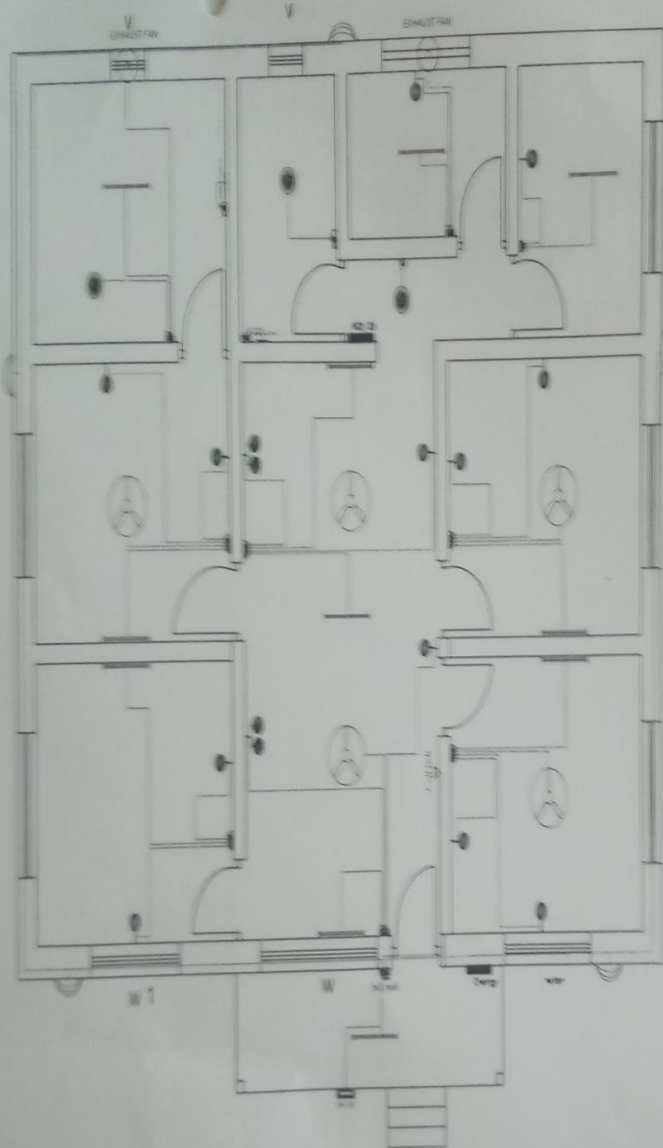
All dimensions are in mm

Date: 01/01/2021

Scale: 1:100



NORTH



1	20A MCB
2	10A MCB
3	10A MCB
4	10A MCB
5	10A MCB
6	10A MCB
7	10A MCB
8	10A MCB
9	10A MCB
10	10A MCB
11	10A MCB
12	10A MCB
13	10A MCB
14	10A MCB
15	10A MCB
16	10A MCB
17	10A MCB
18	10A MCB
19	10A MCB
20	10A MCB
21	10A MCB
22	10A MCB
23	10A MCB
24	10A MCB
25	10A MCB
26	10A MCB
27	10A MCB
28	10A MCB
29	10A MCB
30	10A MCB
31	10A MCB
32	10A MCB
33	10A MCB
34	10A MCB
35	10A MCB
36	10A MCB
37	10A MCB
38	10A MCB
39	10A MCB
40	10A MCB
41	10A MCB
42	10A MCB
43	10A MCB
44	10A MCB
45	10A MCB
46	10A MCB
47	10A MCB
48	10A MCB
49	10A MCB
50	10A MCB
51	10A MCB
52	10A MCB
53	10A MCB
54	10A MCB
55	10A MCB
56	10A MCB
57	10A MCB
58	10A MCB
59	10A MCB
60	10A MCB
61	10A MCB
62	10A MCB
63	10A MCB
64	10A MCB
65	10A MCB
66	10A MCB
67	10A MCB
68	10A MCB
69	10A MCB
70	10A MCB
71	10A MCB
72	10A MCB
73	10A MCB
74	10A MCB
75	10A MCB
76	10A MCB
77	10A MCB
78	10A MCB
79	10A MCB
80	10A MCB
81	10A MCB
82	10A MCB
83	10A MCB
84	10A MCB
85	10A MCB
86	10A MCB
87	10A MCB
88	10A MCB
89	10A MCB
90	10A MCB
91	10A MCB
92	10A MCB
93	10A MCB
94	10A MCB
95	10A MCB
96	10A MCB
97	10A MCB
98	10A MCB
99	10A MCB
100	10A MCB



Name of Work :- Electrification of Lam Zimchung at Dreishang

Sector :- Culture

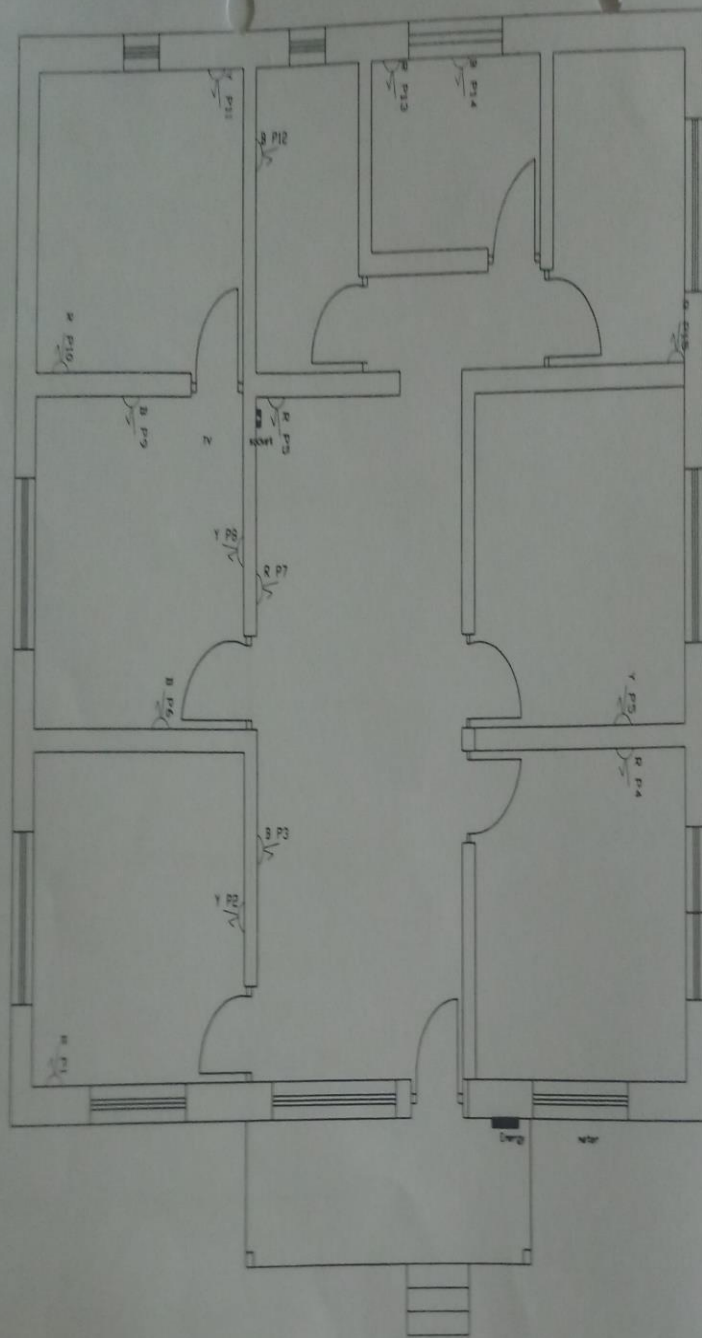
THU NO-1002

Title :- Control circuit layout plan

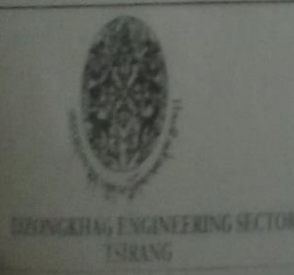
Approved by:

Design & Drawn by: Colson Tanying (M.Engt.)
 Checked by: Electrical Engineer
 Checked by: [Signature]

Important Note: Do not remove from the Drawing Please consult with Engineer in charge 17/08/2017		 NORTH
Scale: 1:100 (ELECTRICAL)	Date: 17/08/2017	



	1 Way Switch
	2 Way Switch
	3 Way Switch
	4 Way Switch
	5 Way Switch
	6 Way Switch
	7 Way Switch
	8 Way Switch
	9 Way Switch
	10 Way Switch
	11 Way Switch
	12 Way Switch
	13 Way Switch
	14 Way Switch
	15 Way Switch
	16 Way Switch
	17 Way Switch
	18 Way Switch
	19 Way Switch
	20 Way Switch
	21 Way Switch
	22 Way Switch
	23 Way Switch
	24 Way Switch
	25 Way Switch
	26 Way Switch
	27 Way Switch
	28 Way Switch
	29 Way Switch
	30 Way Switch
	31 Way Switch
	32 Way Switch
	33 Way Switch
	34 Way Switch
	35 Way Switch
	36 Way Switch
	37 Way Switch
	38 Way Switch
	39 Way Switch
	40 Way Switch
	41 Way Switch
	42 Way Switch
	43 Way Switch
	44 Way Switch
	45 Way Switch
	46 Way Switch
	47 Way Switch
	48 Way Switch
	49 Way Switch
	50 Way Switch
	51 Way Switch
	52 Way Switch
	53 Way Switch
	54 Way Switch
	55 Way Switch
	56 Way Switch
	57 Way Switch
	58 Way Switch
	59 Way Switch
	60 Way Switch
	61 Way Switch
	62 Way Switch
	63 Way Switch
	64 Way Switch
	65 Way Switch
	66 Way Switch
	67 Way Switch
	68 Way Switch
	69 Way Switch
	70 Way Switch
	71 Way Switch
	72 Way Switch
	73 Way Switch
	74 Way Switch
	75 Way Switch
	76 Way Switch
	77 Way Switch
	78 Way Switch
	79 Way Switch
	80 Way Switch
	81 Way Switch
	82 Way Switch
	83 Way Switch
	84 Way Switch
	85 Way Switch
	86 Way Switch
	87 Way Switch
	88 Way Switch
	89 Way Switch
	90 Way Switch
	91 Way Switch
	92 Way Switch
	93 Way Switch
	94 Way Switch
	95 Way Switch
	96 Way Switch
	97 Way Switch
	98 Way Switch
	99 Way Switch
	100 Way Switch



Name of Work :- Electrification of Lam Zimchung at Drotshang

Title :- Power socket layout plan

Design & drawn by:-

Checked by:-

Approved by:-

Signature

Sector :- Culture

Inspector Name:-

Do not measure from the Drawing

Phases covered with Engineer's mark

At 100%

Not dimensioned - unless noted

Drawn by:-

Scale:-

