

GOVERNMENT OF BHUTAN.  
FOOD SECURITY AND AGRICULTURE PRODUCTIVITY PROJECT (FSAPP)

REQUEST FOR QUOTATION (RFQ)  
**(One-Envelope Bidding Process without e-Procurement)**

**NATIONAL OPEN COMPETITIVE PROCUREMENT**  
**FOR SMALL WORKS**

Date: 15<sup>th</sup> April 2023  
RFQ No. BT-HD-333394-CW-RFQ

1. The Government of Bhutan has received financing from the World Bank toward the cost of the Food Security and Agriculture Productivity Project and intends to apply a part of the funds to cover eligible payments under the contracts for construction of works as detailed below. Bidding is open to all bidders from eligible source countries as defined in the “Procurement Regulations for IPF Borrowers, July 2016, revised August 2018” (“Procurement Regulations”). Bidders from Bhutan should, however, be registered with the Government of Bhutan. **Bidders are advised to note the minimum qualification criteria specified in Clause 3 of the Instructions to Bidders to qualify for the award of the contract.** In addition, please refer to paragraphs 3.14 and 3.15 of the “Procurement Regulations” setting forth the World Bank’s policy on conflict of interest.
2. The Dzongkhag Administration Haa (Implementing Agency) invites sealed bids for the construction of works detailed in the table below.
3. Interested eligible Bidders may obtain further information from the office of the Dzongkhag Administration Haa, during office hours.
4. A complete set of bidding document can be downloaded from the Dzongkhag’s website, [www.haa.gov.bt](http://www.haa.gov.bt), free of cost.
5. Bids must be accompanied by a bid security of the amount specified for the work in the table below, drawn in favour of Dasho Dzongdag, Dzongkhag Administration, Haa. Bid security will have to be in any one of the forms as specified in the bidding document and shall have to be valid for 45 days beyond the validity of the bid. Bids should be valid for 45 days after the deadline date specified for bid submission.
6. Bids must be delivered to Dzongkhag Administration, Haa on or before 10.00 AM hours on April 25, 2023 and will be publicly opened on the same day at 10.30 AM hours, in the presence of the bidders who wish to attend. If the office happens to be closed on the date of receipt of the bids as specified, the bids will be received and opened on the next working day at the same time and venue. Late Bids will be rejected.
7. Other details can be seen in the bidding document.

**TABLE**

<b>Package No.</b>	<b>Name of work</b>	<b>Bid Security (BTN.)</b>	<b>Period of completion</b>
1	Construction of Centralized Pack House at Sambaykha Dungkhag, Haa.	BTN. 50,000.00	2 Months

Seal of office

(Employer)

Name: Melam Zangpo  
Address: Dasho Dzongdag, Dzongkhag Administration, Haa.

# Instructions to Bidders

## SECTION - A

### 1. Scope of Works

The Dzongkhag Administration, Haa (Employer) invites bids for the construction of works as detailed in the table given below

Package No.	Brief Description of the Works	Period of Completion
1	Construction of Centralized Pack House at Sambaykha Dungkhag, Haa.	2 Months

The successful bidder will be expected to complete the works by the intended completion date specified above.

### 2. **Qualification of the bidder:** The bidder shall provide qualification information which shall include: -

- a) total monetary value of construction works performed for each year of the last 3 years;
- b) Report on his financial standing; and
- c) Details of any litigation, current or during the last 3 years in which the bidder is involved, the parties concerned and disputed amount or awards in each case.

### 3. **To qualify for award of the contract the bidder: -**

- (a) should have satisfactorily completed as a prime contractor at least one civil engineering work of value not less than BTN.1 million (Ngultrum One Million only) in the last three years;
- (b) should have achieved in at least three years an average annual financial turnover (in civil engineering construction works) of value not less than BTN 2 million (Ngultrum Two Million only) in the last three years;
- (c) should possess valid license and in case of expired license, the bidder should produce updated license and notify employer either through electronic mail or in hard copy at the time of evaluation of bidding documents (in the event of the works being sub-contracted, the sub-contractor should have the necessary license);

- (d) should not have been debarred or suspended on the date of bid opening by the World Bank Group.
- (e) no contract should have been suspended or terminated and/or performance security called by an employer(s) for reasons related to Environmental, Social (including sexual exploitation and abuse (SEA) and gender-based violence (GBV)), Health, or Safety (ESHS) requirements or safeguards in the past three years.

### **3.1 Eligibility - Conflict of Interest\***

Any Bidder found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest for the purpose of this bidding process, if the Bidder:

- i. directly or indirectly controls, is controlled by or is under common control with another Bidder; or
- ii. receives or has received any direct or indirect subsidy from another Bidder; or
- iii. has the same legal representative as another Bidder; or
- iv. has a relationship with another Bidder, directly or through common third parties, that puts it in a position to influence the bid of another Bidder, or influence the decisions of the Employer regarding this bidding process; or
- v. any of its affiliates has been hired (or is proposed to be hired) by the Employer or Borrower as Engineer for the Contract implementation;
- vi. has a close business or family relationship with the concerned professional staff of the Borrower or of the project implementing agency.

(\* for further details refer to paragraphs 3.14 and 3.15 of the “Procurement Regulations” setting forth the World Bank’s policy on conflict of interest)

## **4. Bid Price**

- a) The contract shall be for the whole works as described in drawings and technical specifications. Corrections, if any, shall be made by crossing out, initialing, dating, and rewriting.
- b) All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price.
- c) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- d) The Bidder shall fill in the prices for the Works in conformity with the Bidding Documents, both in figures and words.

## **5. Clarification of Bidding Documents**

- 5.1** A prospective Bidder requiring any clarification of the Bidding Documents may notify the Employer in writing, including electronic mail, at the Employer's address indicated above. The Employer shall respond to any request for clarification received earlier than fifteen (15) days prior to the deadline for submission of bids. Copies of the Employer's response shall be forwarded to all purchasers of the Bidding Documents, including a description of the inquiry, but without identifying its source. Should the clarification result in changes to the essential elements of the Bidding Documents, the Employer shall amend the Bidding Documents, following the procedure in Clause 6 below.

## **6. Amendment of Bidding Documents**

- 6. 1** Before the deadline for submission of Bids, the Employer may modify the Bidding Documents by issuing addenda.
- 6.2** Any addendum thus issued shall be part of the Bidding Documents, shall be binding on all Bidders and shall be communicated in writing, including electronic mail, to all purchasers of the Bidding Documents. Prospective Bidders shall acknowledge receipt of each addendum in writing, including by electronic mail, to the Employer.
- 6.3** To give prospective Bidders reasonable time in which to take an addendum into account in preparing their Bids, the Employer shall extend, as necessary, the deadline for submission of Bids, in accordance with Clause 7 below

## **7 Submission of Bids**

- 7.1** The bidder is advised to visit the site of works at his own expense and obtain all information that may be necessary for preparing the bid.
- 7.2** **Each bidder shall submit only one bid.** Bidders should not contact other competing bidders in matters relating to this bid.
- 7.3** The set of bidding document comprise of the following:
- i. Layout Drawings of the works;
  - ii. Structural Details;
  - iii. Bill of Quantities & Technical Specifications;
  - v. Instructions to Bidders; and
  - vi. Draft Contract Agreement format which will be used for finalizing the agreement for this Contract.
- 7.4** The bid submitted by the bidder shall comprise the following: -
- (a) Bid in the format given in Section B.

- (b) Completed Bill of Quantities;
- (c) Qualification information form given in Section B duly completed.
- (d) Bidder's confirmation to comply with (i) the applicable Laws/ Rules/ Regulations for protection of environment, public health and safety; (ii) the regulatory authority conditions (if any) attached to any permits or approvals for the project; and (iii) the Management Strategies and Implementation Plan (MSIP) to manage the Environmental, Social (including sexual exploitation and abuse (SEA) and gender based violence (GBV)), Health and Safety (ESHS) risks, and ESHS Code of Conduct, (if any prescribed by the Employer), that will apply to its employees and all subcontractors.
- (e) Bid Security, in original form for the amount BTN. 50,000.00 (Ngultrum Fifty Thousand) in one of the following forms:
  - A bank guarantee issued by a Nationalized/Scheduled bank located in Bhutan in the form given in Section B; or
  - Certified cheque or Bank draft payable to Dasho Dzongdag, Dzongkhag Administration, Haa.
  - Fixed Deposit/Time Deposit certificates issued by a Nationalized/Scheduled Bank located in Bhutan for equivalent or higher values are acceptable provided it is pledged in favour of Dasho Dzongdag, Dzongkhag Administration, Haa, and such pledging has been noted and suitably endorsed by the bank issuing the deposit certificate.

**7.5** The bidder shall seal the bid in an envelope addressed to the Dasho Dzongdag, Dzongkhag Administration, Haa (Purchaser).

The envelope will also bear the following identification: -

- RFQ - Construction of Centralized Pack House at Sambaykha Dungkhag, Haa.
- Do not open before 10.30 AM hours on 25<sup>th</sup> April, 2023.

**7.6** Bids must be received in the office of the Dzongdag, Dzongkhag Administration, Haa (Employer) not later than the deadline for submission of bids specified in the RFQ viz. time 10.00 AM hours on 25<sup>th</sup> April, 2023. If the specified date is declared a holiday, bids shall be received up to the appointed time on the next working day.

**7.7** Any bid received by the (Employer) after the deadline for submission of bids will be rejected and Dzongkhag Administration, Haa returned unopened to the bidder.

## **8. Validity of Bid**

Bid shall remain valid for a period not less than 45 days after the deadline date specified for submission. If a Bidder withdraws/modifies/substitutes its bid during the period of bid validity specified by the Bidder on the Letter of Bid, the Bid Security may be forfeited.

## **9. Public Opening of Bids**

Bids will be publicly opened in the presence of bidders or their representatives who choose to attend, on the date and time, and at the place specified in sub-clause 7.5 above.

- 10.** Information relating to evaluation of bids and recommendations for the award of contract shall not be disclosed to bidders or any other persons not officially concerned with the process until the award to the successful bidder is announced.

## **11. Evaluation of Bids**

### **11.1 Correction of Arithmetical Errors**

Bids determined to be substantially responsive shall be checked for any arithmetic errors. Errors shall be corrected as follows:

- (a) where there is a discrepancy between the amounts in figures and in words, the amount in words shall govern;
- (b) where there is a discrepancy between the unit rate and the line-item total resulting from multiplying the unit rate by the quantity, unit rate as quoted shall govern; and
- (c) the amount stated in the Bid shall be adjusted in accordance with the above procedure for the correction of errors

If the Bidder does not accept the corrected amount, the Bid shall be rejected, and the Bid Security may be forfeited.

- 11.2** The Employer will evaluate and compare the bids determined to be substantially responsive i.e. which

- (a) meet the qualification criteria specified in clause 3 above;
- (b) are properly signed; and
- (c) conform to the terms and conditions, specifications and drawings without material deviations.

- 11.3** The evaluation will be carried out Package wise and contract will be awarded package wise.

- 11.4** To assist in the examination, evaluation and comparison of Bids, the Employer may, at the Employer's discretion, ask any Bidder for clarification of the Bidder's Bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing, including by electronic mail, but no change in the price or substance of the Bid shall be sought, offered or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Bids in accordance with ITB Clause 11.

## **12. Award of contract**

The Employer will award the contract to the successful bidder whose bid has been determined to be the Most Advantageous Bid. This is the bid that meets the specified Qualification Criteria and has been determined to be (a) substantially responsive to the bidding document; and (b) the lowest evaluated cost.

- 12.1** Notwithstanding the above, the Employer reserves the right to accept or reject any Bid and to cancel the bidding process and reject all Bids at any time prior to the award of contract.
- 12.2** The successful bidder will be notified of the award of contract by the Employer prior to expiration of the bid validity period.
- 12.3** The Bid security of unsuccessful bidders will be returned as promptly as possible upon the successful Bidder's signing the contract and furnishing the performance security pursuant to ITB 13.

## **13. Performance Security**

Within 15 days of receiving letter of acceptance, the successful bidder shall deliver to the Dasho Dzongdag, Dzongkhag Administration, Haa (Employer) the performance security (either a bank guarantee or a bank draft in favour of the Employer) for an amount equivalent of 5% of the contract price. The Performance Security shall be valid until a date 28 days after the date of issue of the Certificate of Completion. Failure of the successful Bidder to furnish performance security and sign the agreement within the period stipulated shall constitute sufficient grounds for annulment of award and forfeiture of the Bid Security, in which case the Employer may make the award to the Bidder offering the next Most Advantageous Quotation or issue a new RFQ.

## **14. Defects Liability:**

The "Defects Liability Period" for the work is six months from the date of taking over possession or one full monsoon season whichever occurs later. During this period, the contractor will be responsible for rectifying any defects in construction free of cost to the Employer.

- 15.** Supply of all construction materials including cement and steel as per the specifications (ISI certification marked goods wherever available) shall be the responsibility of the contractor.

## **16. Fraud and Corruption**

The World Bank requires compliance with the Bank's Anti-Corruption Guidelines and its prevailing sanctions policies and procedures as set forth in the WBG's Sanctions Framework, as set forth in Section C. In further pursuance of this policy, bidders shall permit and shall cause their agents (whether declared or not), sub-contractors, sub-consultants, service providers, suppliers and their personnel, to permit the Bank to inspect all accounts, records and other documents relating to any initial selection process, prequalification process, bid submission, proposal submission, and contract performance (in the case of award), and to have them audited by auditors appointed by the Bank.



## **SECTION - B**

- 1. Format for Qualification Information.**
- 2. Format for Submission of Bid.**
- 3. Format of Letter of Acceptance.**

## **QUALIFICATION INFORMATION**

### **1 For Individual Bidders**

**1.1** Principal place of business: \_\_\_\_\_

Power of attorney of signatory of Bid.  
*[Attach copy]*

**1.2** Total value of Civil Engineering construction work performed in the last three years (in BTN. Lakhs)

20_____	_____
20_____	_____
20_____	_____

**1.3** Work performed as prime contractor (in the same name) on works of a civil nature over the last three years.

Project Name	Name of Employer	Description of work	Contract No.	Value of contract (BTN. Lakhs)	Date of issue of work order	Stipulated period of completion	Actual date of completion	Remarks explaining reasons for delay and work completed

Existing commitments and on-going works:

Description of Work	Place & State	Contract No. & Date	Value of Contract (BTN. Lakh)	Stipulated period of completion	Value of works* remaining to be completed (BTN. Lakhs)	Anticipated date of completion
(1)	(2)	(3)	(4)	(5)	(6)	(7)

\* Enclose a certificate from Engineer concerned.

**1.4** Proposed subcontracts and firms involved.

<b>Sections of the works</b>	<b>Value of Sub-contract</b>	<b>Sub-contractor (name &amp; address)</b>	<b>Experience in similar work</b>

**1.5** Evidence of access to financial resources to meet the requirement of working capital: cash in hand, lines of credit, etc. List them below and attach copies of supporting documents.

**1.6** Name, address, and telephone, telex, and fax numbers of the Bidders' bankers who may provide references if contacted by the Employer.

**1.7** Information on litigation history in which the Bidder is involved.

<b>Other party(ies)</b>	<b>Employer</b>	<b>Cause of dispute</b>	<b>Amount involved</b>	<b>Remarks showing present status</b>

**1.8** Contract(s) suspended or terminated and/or Performance Security called by an employer(s) for reasons related to Environmental, Social (including sexual exploitation and abuse (SEA) and gender-based violence (GBV)), Health, or Safety (ESHS) performance during the last three years.

<b>Contract(s) suspended or terminated by an Employer(s)</b>			
<b>Year</b>	<b>Contract Identification, Name and address of the Employer, and reasons for suspension or termination</b>	<b>Amount of suspended or terminated portion of contract (BTN)</b>	<b>Total Contract Amount (BTN)</b>
<b>Performance Security called by an employer(s)</b>			
<b>Year</b>	<b>Contract Identification, Name and address of the Employer, and reasons for calling of performance security</b>	<b>Total Contract Amount (BTN)</b>	

## LETTER OF BID

RFB No: .....

Date of Bid Submission: .....

To:

Subject : Construction of .....  
.....

Sir,

We have no reservations to the Bidding Document, and offer to execute the Works referred above in accordance with the Conditions of Contract enclosed therewith at a total Fixed Contract Price of —

BTN.\*\* ..... [in figures]

BTN. .... [in words].

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 certify that we have taken steps to ensure that no person acting for us or on our behalf engages in any type of Fraud and Corruption.

We hereby confirm that this bid is valid for 45 days as required in Clause 6 of the Instructions to Bidders.

We meet the eligibility requirements and have no conflict of interest in accordance with ITB 3.1

We have not been currently debarred or suspended by the World Bank Group.

Yours faithfully,

Authorized Signature : Date signed: \_\_\_\_\_

Name & Title of Signatory : \_\_\_\_\_

Name of Bidder : \_\_\_\_\_

Address : \_\_\_\_\_

\*\* To be filled in by the Bidder, together with his particulars and date of submission at the bottom of this Form.

**LETTER OF ACCEPTANCE  
CUM NOTICE TO PROCEED WITH THE WORK  
(LETTERHEAD OF THE EMPLOYER)**

Dated: \_\_\_\_\_

To : \_\_\_\_\_ [Name and address of the Contractor]

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Dear Sirs,

This is to notify you that your Bid dated \_\_\_\_\_ for execution of the \_\_\_\_\_ for the contract price of Ngultrum \_\_\_\_\_ [amount in words and figures], is hereby accepted by us.

You are hereby requested to furnish performance security for an amount of BTN. (Equivalent to 5% of the contract price) within 15 days of the receipt of the \_\_\_\_\_ the letter. The Performance Security in the form of Bank guarantee or a Bank draft in favour of .....(Employer) shall be valid until a date 28 days after the date of issue of the Certificate of Completion i.e. up to \_\_\_\_\_. Failure to furnish the Performance Security will entail cancellation of the award of contract.

You are also requested to sign the agreement form and proceed with the work not later than \_\_\_\_\_ under the instructions of the Engineer, \_\_\_\_\_ and ensure its completion within the contract period.

With the issuance of this acceptance letter and your furnishing the Performance Security, contract for the above said work stands concluded.

Yours faithfully,

**Authorized Signature  
Name and title of Signatory**

# **Draft Agreement form for Construction through Lump Sum Contract**

## **ARTICLES OF AGREEMENT**

**1.** This deed of agreement is made in the form of agreement on \_\_\_\_\_ day \_\_\_\_\_ month \_\_\_\_\_ 20 \_\_\_\_, between the \_\_\_\_\_ (Employer) or his authorized representative (hereinafter referred to as the first party) and \_\_\_\_\_ (Name of the Contractor), S/O \_\_\_\_\_ resident of \_\_\_\_\_<sup>1</sup> (hereinafter referred to as the second party), to execute the work of construction of \_\_\_\_\_ (Herein after referred to as works) on the following terms and conditions.

### **2. Cost of the Contract**

The total cost of the works (hereinafter referred to as the “total cost”) is Rs. \_\_\_\_\_ as reflected in Annexure - 1.

### **3. Payments under the contract:**

3.1 Payments to the second party for the construction work will be released by the first party in the following manner: -

- On Signing of Agreement: 10% of the contract price on receipt of unconditional bank guarantee in the format attached (The Guarantee shall remain effective until the advance payment has been repaid).
- Balance payment will be based on the physical progress.

3.2 The Employer shall retain (Retention Money) 6% of the amount from each payment due to the Contractor subject to the maximum of 5% of final contract price. Half of the amount retained shall be repaid upon completion of the works, and other half shall be repaid when the Defects Liability Period has passed and the Engineer has certified that all Defects notified to the Contractor before the end of this period have been corrected. On completion of the whole works the Contractor may substitute the balance retention money with an “on demand” Bank guarantee.

3.3 Payments at each stage will be made by the first party:

- (a) on the second party submitting an invoice for an equivalent amount;
- (b) on certification of the invoice (except for the first installment) by the engineer nominated by the first party with respect to quality of works in the format in Annexure - 2; and

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<sup>1</sup> In case of a firm insert ‘complete address of the firm’. In case of an individual contractor insert identification like ‘son of and resident of’ etc.

- (c) upon proper and justified utilization of at least 50 % of the previous installment and 100 % of any prior installment.

#### **4. Notice by Contractor to Engineer**

The second party, on the works reaching each stage of construction, shall issue a notice to the first party or the Engineer nominated by the first party [who is responsible for supervising the contractor, administering the contract, certifying payments due to the contractor, issuing and valuing variations to the contract, awarding extension of time etc.] to visit the site for certification of stage completion. Within 15 days of the receipt of such notice, the first party or the engineer nominated by it, will ensure issue of stage completion certificate after due verification.

#### **5. Completion time**

The works should be completed in two months from the date of this Agreement. In exceptional circumstances, the time period stated in this clause may be extended in writing by mutual consent of both the parties.

- 6. If any of the compensation events mentioned below would prevent the work being completed by the intended completion date, the first party will decide on the intended completion date being extended by a suitable period:

- a) The first party does not give access to the site or a part thereof by the agreed period.
- b) The first party orders a delay or does not issue completed drawings, specifications or instructions for execution of the work on time.
- c) Ground conditions are substantially more adverse than could reasonably have been assumed before issue of letter of acceptance and from information provided to second party or from visual inspection of the site.
- d) Payments due to the second party are delayed without reason.
- e) Certification for stage completion of the work is delayed unreasonably.

- 7. Any willful delay on the part of the second party in completing the construction within the stipulated period will render him liable to pay liquidated damages of BTN. ***0.05 % of the contract value of the works per week*** which will be deducted from payments due to him. The first party may cancel the contract and take recourse to such other action as deemed appropriate once the total amount of liquidated damages exceeds 5 % of the contract amount.

#### **8. Duties and responsibilities of the first party**

- 8.1 The first party shall be responsible for providing regular and frequent supervision and guidance to the second party for carrying out the works as per specifications. This will include written guidelines and regular site visit of the authorized personnel of the first party, for checking quality of material and construction to ensure that it is as per the norms.

- 8.2 The first party shall supply 3 sets of drawings, specifications and guidelines to the second party for the proposed works.
- 8.3 Possession of the site will be handed over to the second party within 10 days of signing of the agreement.
- 8.4 The Engineer or such other person as may be authorized by the first party shall hold meeting once in a month where the second party or his representative at site will submit the latest information including progress report and difficulties if any, in the execution of the work. The whole team may jointly inspect the site on a particular day to take stock of activities.
- 8.5 The Engineer shall record his observations/instructions at the time of his site visit in a site register maintained by the second party. The second party will carry out the instructions and promptly rectify any deviations pointed out by the engineer. If the deviations are not rectified, within the time specified in the Engineer's notice, the first party as well as the engineer nominated by it, may instruct stoppage or suspension of the construction. It shall thereupon be open to the first party or the engineer to have the deviations rectified at the cost of the second party.
- 8.6 The Engineer shall issue a Certificate of Completion of the Works on the request of the second party, and upon deciding that the whole of the Works is completed.

## **9. Duties and responsibilities of the second party**

### **9.1 The second party shall:**

- a) take up the works and arrange for its completion within the time period stipulated in clause 5;
- b) employ suitable skilled persons to carry out the works;
- c) regularly supervise and monitor the progress of work;
- d) abide by the technical suggestions/ direction of supervisory personnel including engineers etc. regarding building construction;
- e) be responsible for bringing any discrepancy to the notice of the representative of the first party and seek necessary clarification;
- f) ensure that the work is carried out in accordance with specifications, drawings and within the total of the contract amount without any cost escalation;
- g) keep the first party informed about the progress of work;
- h) correct the notified defects within the length of time specified by the Engineer;
- i) be responsible for all security and watch and ward arrangements at site till handing over of the works to the first party;



- j) maintain necessary insurance against loss of materials/cash, etc. or workman disability compensation claims of the personnel deployed on the works as well as third party claims from the start date to the end of defect liability period;
- k) pay all duties, taxes and other levies payable by construction agencies as per law under the contract (First party will affect deduction from running bills in respect of such taxes as may be imposed under the law);
- l) abide by the regulatory authority conditions (if any) attached to any permits or approvals for the project; and the ESHS Management Strategies and Implementation Plan and ESHS Code of Conduct, if any prescribed by the Employer;
- m) abide by all labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local authorities;
- n) abide by all enactments on environmental protection and rules made there under, regulations, notifications and by-laws of the State or Central Government, or local authorities;
- o) be responsible for the safety of all activities on the Site.

#### **10. Variations / Extra Items**

The works shall be executed by the second party in accordance with the approved drawings and specifications. No variation in cost is acceptable. However, if the Engineer issues instructions for execution of extra items, the following procedure shall be followed: -

- a) The second party shall provide the Engineer with a quotation for carrying out the extra items when requested to do so by the Engineer. The Engineer shall assess the quotation, which shall be given within seven days of the request before the extra items are ordered.
- b) If the quotation given by the second party is unreasonable, the Engineer may order the extra items and make a change to the Contract Price which shall be based on Engineer's own forecast of the effects of the extra items on the Contractor's costs.
- c) The second party shall not be entitled to additional payment for costs, which could have been avoided by giving early warning.

#### **11. Securities**

The Performance Security shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and by a bank acceptable to the Employer. The Performance Security shall be valid until a date 28 days from the date of issue of the Certificate of Completion in the case of a Bank Guarantee.

## **12. Termination**

- 12.1 The Employer may terminate the Contract if the other party causes a fundamental breach of the Contract.
- 12.2 Fundamental breaches of Contract include, but shall not be limited to the following:
- (a) the contractor stops work for 28 days and the stoppage has not been authorized by the Engineer;
  - (b) the Contractor has become bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
  - (c) 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;
  - (d) the Contractor does not maintain a security which is required;
  - (e) the Contractor has engaged in Fraud and Corruption as defined in Section C, in competing for or in executing the Contract; and
  - (f) 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
- 12.3 Notwithstanding the above, the Employer may terminate the Contract for convenience.
- 12.4 If the Contract is terminated the Contractor shall stop work immediately, make the Site safe and secure and leave the Site as soon as reasonably possible.

## **13. Payment upon Termination**

- 13.1 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 less advance payments received up to the date of the issue of the certificate, less other recoveries due in terms of the contract, less taxes due to be deducted at source as per applicable law.
- 13.2 If the Contract is terminated at the Employer's convenience, the Engineer shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the contract and less taxes due to be deducted at source as per applicable law.

#### **14. Dispute settlement**

If over the works, any dispute arises between the two parties, relating to any aspects of this Agreement, the parties shall first attempt to settle the dispute through mutual and amicable consultation.

In the event of agreement not being reached, the matter will be referred for arbitration by a Sole Arbitrator not below the level of retired Chief Engineer / Superintending Engineer, (not connected in part or whole with this Project in his service) to be appointed by the first party. The Arbitration will be conducted in accordance with the Arbitration and Conciliation Act, 1996. The decision of the Arbitrator shall be final and binding on both the parties.

#### **15. Fraud and Corruption**

The World Bank requires compliance with the Bank's Anti-Corruption Guidelines and its prevailing sanctions policies and procedures as set forth in the WBG's Sanctions Framework, as set forth in Section C. In further pursuance of this policy, the Contractor shall permit and shall cause its sub-contractors, sub-consultants, service providers, suppliers, agents personnel, to permit the Bank to inspect all accounts, records, and other documents relating to the procurement process, selection and/or contract execution, and to have them audited by auditors appointed by the Bank.

**BILL OF QUANTITIES & TECHNICAL SPECIFICATIONS**

The approximate Bill of Quantities is indicated below to give an idea of the work which should be executed in accordance with the approved drawings and specifications to enable the bidder to furnish the lump sum price. Bidders may, however, note that no variations in the lump sum cost is acceptable (except where extra items are ordered by the Engineer).

<b>Sl.No.</b>	<b>Description of Work</b>	<b>Unit</b>	<b>Qty.</b>

We agree to execute the works in accordance with the approved drawings and technical specifications at a total fixed contract price of BTN .....(amount in figures)  
(BTN .....amount in words).

**Signature of Contractor**

**Format of certificate**

Certified that the works upto ----- level in respect of construction of ----- at ----- have been executed in accordance with the approved drawings and technical specifications.

Signature  
Name & Designation (Official

address)  
Place:  
Date:

Office seal

## **Drawings**

## Form of Bid Security - Bank Guarantee

*[Guarantor letterhead or SWIFT identifier code]*

Bid Guarantee No... *[insert guarantee reference number]*

Date... *[insert date of issue of the guarantee]*

WHEREAS, \_\_\_\_\_ *[name of Bidder]*<sup>2</sup> (hereinafter called "the Bidder") has submitted his Bid dated \_\_\_\_\_ *[date]* or will submit his Bid for the construction of \_\_\_\_\_ *[name of Contract]* (hereinafter called "the Bid") under Request for Bids No. .... *[insert number]* (hereinafter called "the RFB")

KNOW ALL PEOPLE by these presents that We \_\_\_\_\_ *[name of bank]* of \_\_\_\_\_ *[name of country]* having our registered office at \_\_\_\_\_ (hereinafter called "the Bank") are bound unto \_\_\_\_\_ *[name of Employer]* (hereinafter called "the Employer") in the sum of \_\_\_\_\_<sup>3</sup> for which payment well and truly to be made to the said Employer the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

THE CONDITIONS of this obligation are:

- (1) If after Bid opening the Bidder (a) withdraws his bid during the period of Bid validity specified in the Letter of Bid, or any extension thereto provided by the Bidder; or (b) does not accept the correction of the Bid Price pursuant to ITB 9.1;
- or
- (2) If the Bidder having been notified of the acceptance of his Bid by the Employer during the period of Bid validity:
  - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, if required; or
  - (b) fails or refuses to furnish the Performance Security, in accordance with the Instruction to Bidders.

we undertake to pay to the Employer up to the above amount upon receipt of his first written demand, without the Employer having to substantiate his demand, provided that in his demand the Employer will note that the amount claimed by him is due to him owing to the occurrence of one or any of the four conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date \_\_\_\_\_<sup>4</sup> days after the deadline for submission of Bids as such deadline is stated in the Instructions to Bidders or as it

<sup>2</sup> Insert name of the Bidder, which in the case of a joint venture shall be (a) the name of the joint venture that submits the bid if the JV has been constituted into a legally enforceable JV, or (b) the names of all future members of the JV as named in the letter of intent to execute the JV Agreement submitted by the bidder alongwith its bid.

<sup>3</sup> The Guarantor should insert the amount of the guarantee in words and figures denominated in Bhutan Rupees. This figure should be the same as shown in Clause 5.5 of the Instructions to Bidders.

<sup>4</sup> 45 days after the end of the validity period of the Bid.

may be extended by the Employer, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this guarantee should reach the Bank not later than the above date.

DATE \_\_\_\_\_ SIGNATURE OF THE BANK \_\_\_\_\_

WITNESS \_\_\_\_\_ SEAL \_\_\_\_\_

\_\_\_\_\_  
[signature, name, and address]

***Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.***



## Performance Security - Bank Guarantee

*[Guarantor letterhead or SWIFT identifier code]*

Performance Guarantee No..... *[insert guarantee reference number]*

Date..... *[insert date of issue of the guarantee]*

To: \_\_\_\_\_ *[name of Employer]*  
\_\_\_\_\_ *[address of Employer]*

WHEREAS \_\_\_\_\_ *[name and address of Contractor]* (hereinafter called "the Contractor") has undertaken, in pursuance of Contract No. \_\_\_\_\_ dated \_\_\_\_\_ to execute \_\_\_\_\_ *[name of Contract and brief description of Works]* (hereinafter called "the Contract");

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of \_\_\_\_\_ *[amount of guarantee<sup>5</sup>]* \_\_\_\_\_ *[in words]*, such sum being payable in the types and proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of \_\_\_\_\_ *[amount of guarantee]* as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed thereunder or of any of the Contract documents which may be made between you 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 shall be valid until ..... (i.e.) 28 days after the date of issue of the Certificate of Completion, and any demand for payment under it must be received by us at this office on or before that date.

Signature and seal of the guarantor \_\_\_\_\_  
Name of Bank \_\_\_\_\_  
Address \_\_\_\_\_  
Date \_\_\_\_\_

<sup>5</sup> An amount shall be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract and denominated in Bhutann Rupees.

# Advance Payment Security

## Demand Guarantee

[Guarantor letterhead or SWIFT identifier code]

Advance Payment Guarantee No... [insert guarantee reference number]

Date... [insert date of issue of the guarantee]

To: \_\_\_\_\_ [name of Employer]  
\_\_\_\_\_ [address of Employer]  
\_\_\_\_\_ [name of Contract]

Gentlemen:

In accordance with the provisions of the Articles of Agreement, Sub-clause 3 ("Advance Payment") of the above-mentioned Contract, \_\_\_\_\_ [name and address of Contractor] (hereinafter called "the Contractor") shall deposit with \_\_\_\_\_ [name of Employer] a bank guarantee to guarantee his proper and faithful performance under the said Clause of the Contract in an amount of \_\_\_\_\_ [amount of guarantee<sup>6</sup>] \_\_\_\_\_ [in words].

We, the \_\_\_\_\_ [bank or financial institution], as instructed by the Contractor, agree unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to \_\_\_\_\_ [name of Employer] on his first demand without whatsoever right of objection on our part and without his first claim to the Contractor, in the amount not exceeding \_\_\_\_\_ [amount of guarantee] \_\_\_\_\_ [in words].

We further agree that no change or addition to or other modification of the terms of the Contract or of Works to be performed thereunder or of any of the Contract documents which may be made between \_\_\_\_\_ [name of 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 shall remain valid and in full effect from the date of the advance payment under the Contract until \_\_\_\_\_ [name of Employer] receives full repayment of the same amount from the Contractor. Consequently any demand for payment under this guarantee must be received by us at this office on or before that date.

Yours truly,

Signature and seal: \_\_\_\_\_  
Name of Bank: \_\_\_\_\_  
Address: \_\_\_\_\_  
Date: \_\_\_\_\_

<sup>6</sup> An amount shall be inserted by the bank representing the amount of the Advance Payment, and denominated in Bhutan Rupees.

## Retention Money Security

### Demand Guarantee

*[Guarantor letterhead or SWIFT identifier code]*

\_\_\_\_\_ *[Bank's name and address of issuing branch or office]*

**Beneficiary:** \_\_\_\_\_ *[Name and Address of Employer]*

**Date:** \_\_\_\_\_

**RETENTION MONEY GUARANTEE NO.:** \_\_\_\_\_

We have been informed that \_\_\_\_\_ *[name of contractor]* (hereinafter called "the Contractor") has entered into Contract No. \_\_\_\_\_ *[reference number of the contract]* dated \_\_\_\_\_ with you, for the execution of \_\_\_\_\_ *[name of contract and brief description of Works]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, when the Taking-Over Certificate has been issued for the Works and the first half of the Retention Money has been certified for payment, payment of \_\_\_\_\_ *[insert the second half of the Retention Money]* is to be made against a Retention Money guarantee.

At the request of the contractor, we \_\_\_\_\_ *[name of Bank]* hereby irrevocably undertake to pay you the sum or sums not exceeding in total an amount of \_\_\_\_\_ *[amount in Ngultrum]* ( \_\_\_\_\_ ) *[amount in words<sup>7</sup>]* upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation under the Contract without cavil or argument.

It is a condition for any claim and payment under this guarantee to be made that the payment of the second half of the Retention Money referred to above must have been received by the Contractor on its account number \_\_\_\_\_ at \_\_\_\_\_ *[name and address of Bank]*.

This guarantee shall expire, at the latest, 21 days after the date when the Employer has received a copy of the Defects Liability Certificate issued by the Engineer. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

\_\_\_\_\_  
*[Signature(s) and seal of the guarantor]*

<sup>7</sup> The Guarantor shall insert an amount representing the amount of the second half of the Retention Money.

## Section C. Fraud and Corruption

*(Text in this Section shall not be modified)*

### 1. Purpose

1.1 The Bank's Anti-Corruption Guidelines and this annex apply with respect to procurement under Bank Investment Project Financing operations.

### 2. Requirements

2.1 The Bank requires that Borrowers (including beneficiaries of Bank financing); bidders (applicants/proposers), consultants, contractors and suppliers; any sub-contractors, sub-consultants, service providers or suppliers; any agents (whether declared or not); and any of their personnel, observe the highest standard of ethics during the procurement process, selection and contract execution of Bank-financed contracts, and refrain from Fraud and Corruption.

2.2 To this end, the Bank:

- a. Defines, for the purposes of this provision, the terms set forth below as follows:
  - i. "corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
  - ii. "fraudulent practice" is any act or omission, including misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;
  - iii. "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;
  - iv. "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;
  - v. "obstructive practice" is:
    - (a) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive, or collusive practice; and/or threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or
    - (b) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under paragraph 2.2 e. below.
- b. Rejects a proposal for award if the Bank determines that the firm or individual recommended for award, any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/ or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;

- c. In addition to the legal remedies set out in the relevant Legal Agreement, may take other appropriate actions, including declaring mis-procurement, if the Bank determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement process, selection and/or execution of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;
- d. Pursuant to the Bank's Anti- Corruption Guidelines and in accordance with the Bank's prevailing sanctions policies and procedures, may sanction a firm or individual, either indefinitely or for a stated period of time, including by publicly declaring such firm or individual ineligible (i) to be awarded or otherwise benefit from a Bank-financed contract, financially or in any other manner;<sup>8</sup> (ii) to be a nominated<sup>9</sup> sub-contractor, consultant, manufacturer or supplier, or service provider of an otherwise eligible firm being awarded a Bank-financed contract; and (iii) to receive the proceeds of any loan made by the Bank or otherwise to participate further in the preparation or implementation of any Bank-financed project;
- e. Requires that a clause be included in bidding/request for proposals documents and in contracts financed by a Bank loan, requiring (i) bidders (applicants/proposers), consultants, contractors, and suppliers, and their sub-contractors, sub-consultants, service providers, suppliers, agents personnel, permit the Bank to inspect<sup>10</sup> all accounts, records and other documents relating to the procurement process, selection and/ or contract execution, and to have them audited by auditors appointed by the Bank.

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<sup>8</sup> For the avoidance of doubt, a sanctioned party's ineligibility to be awarded a contract shall include, without limitation, (i) applying for pre-qualification, expressing interest in a consultancy, and bidding, either directly or as a nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider, in respect of such contract, and (ii) entering into an addendum or amendment introducing a material modification to any existing contract.

<sup>9</sup> A nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider (different names are used depending on the particular bidding document) is one which has been: (i) included by the bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that allow the bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Borrower.

<sup>10</sup> Inspections in this context usually are investigative (i.e., forensic) in nature. They involve fact-finding activities undertaken by the Bank or persons appointed by the Bank to address specific matters related to investigations/audits, such as evaluating the veracity of an allegation of possible Fraud and Corruption, through the appropriate mechanisms. Such activity includes but is not limited to: accessing and examining a firm's or individual's financial records and information, and making copies thereof as relevant; accessing and examining any other documents, data and information (whether in hard copy or electronic format) deemed relevant for the investigation/audit, and making copies thereof as relevant; interviewing staff and other relevant individuals; performing physical inspections and site visits; and obtaining third party verification of information.

**BILL OF QUANTITIES**

The approximate Bill of Quantities is indicated below to give an idea of the work which should be executed in accordance with the approved drawings and specifications to enable the bidder to furnish the lump sum price. Bidders may, however, note that no variations in the lump sum cost is acceptable (except where extra items are ordered by the Engineer).

Sl/No	Description	Unit	Qty.	Rate in figure (Nu.)	Rate in words	Amount (Nu.)
1	Providing & laying Second-Class Brick work in Foundation & Plinth - In cement mortar 1:5	cu.m	13.24			
2	Providing and laying in position plain cement concrete excluding the cost of cantering and shuttering - All work up to plinth level. - 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	1.33			
3	Providing and laying in position plain cement concrete excluding the cost of centring and shuttering - All work up to plinth level. - 1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size)	cu.m	8.97			
4	Providing and laying 50mm thick Plinth Protection and grouted with fine sand mix including well rammed, finishing the top smooth - With cement concrete 1:3:6, 20mm aggregates, laid over 75mm thick layer of compacted gravel (40mm)	sq.m	50.45			
5	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 - 150mm x 200mm depth	m	65			

6	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 - Hard Soil	cu.m	198			
7	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 - Hard Soil	cu.m	84.8			
8	Hand excavation and refilling in layers < 200mm, of trenches for pipes & sockets, cables, including dressing of sides/ ramming of bottom, depth upto 1.5m, disposal of surplus material within lead of 50m: All kinds of soil - Pipes, cables etc. 80mm < dia < 300mm	m	350			
9	Filling of trenches, sides of foundations etc. in layers <200mm using selected excavated earth, ramming etc. within lead 50 m & lift 1.5m	cu.m	11.64			
10	Pal cement concrete flooring 1:2:4, finished with floating coat of neat cement - 20mm aggregates, 75mm thick	sq.m	97.76			
11	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 200 x 100 mm	sq.m	13.23			
12	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 300 x 300 mm	sq.m	4.95			
13	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	each	1			

14	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 a pair of 15mm c.p. brass pillar taps	each	2			
15	Pedestals & Kitchen Sinks- Providing & fixing pedestals for basins, white vitreous china, recessed back for pipes and necessary fittings	each	1			
16	Water Supply Fittings - Providing & fixing c.p. brass stop cock - 15mm, standard, c.p knob	each	2			
17	Water Supply Fittings - Providing & fixing c.p. brass bibcock - 15mm, long nose, c.p. knob	each	3			
18	Cement Plaster - Providing & laying 20mm cement plaster - C.M 1:4	sq.m	158.98			
19	Cement Plaster - Providing & laying cement plaster, finished with floating coat of neat cement - 20mm plaster in C.M 1:4	sq.m	27.97			
20	Extra for cement plastering - Neat cement punning	sq.m	16.5			
21	External Water Supply Pipe work - Providing & laying G.I. pipes including G.I. fittings (excluding trenching, refilling & thrust block)- 15mm	m	50			
22	Soak - pits & Septic Tanks - Constructing Soak Pit - Size 1200x1200x1200mm, filled with brick bats including 100mm SW drain pipe X 1200mm long	each	1			
23	Soak - pits & Septic Tanks - 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 - 15 users	each	1			



24	External Water Supply Pipe work - Providing & laying H.D.P.E pipes, 12.5 PN, including H.D.P.E fittings (excluding trenching, refilling & thrust block) - 25mm	m	350			
25	External Water Supply Pipe work - Providing & laying H.D.P.E pipes, 12.5 PN, including H.D.P.E fittings (excluding trenching, refilling & thrust block) - 50mm	m	12			
26	Painting Items - Providing & applying one coat of primers - Wood work - pink primer	sq.m	78.76			
27	Painting Items - White washing with lime-new work-three coats	sq.m	123.6			
28	Painting Items - Synthetic enamel, for steel & wood work, two coats on new work	sq.m	11.07			
29	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)	cu.m	0.45			
30	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500 MPa) for R.C.C work including cutting, bending, binding and placing in position complete	kg	28.7			
31	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork - Foundation and plinth etc.	sq.m	9			
32	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)	sq.m	164.87			

33	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)	m	16.06			
34	Providing & fixing RC name board including primer and white zinc paint - Rectangular with post	each	1			
35	Engraving letters on hard stone. ....per letter per centimetre height	each	100			
36	Providing & fixing G.I barbed Wire Netting including fixing of post or struts, G.I staples, coal tarring in case of ballies complete (posts/struts, earthwork, concrete paid separately) - 2.5mm , (12 SWG), 4 barbs form by twisting two point wires, each two turns, pitch of barbs 75mm	m	630			
37	Providing & fixing G.I chain-link mesh including fixing of post or struts, G.I staples (excluding the cost of posts/struts, earthwork, concrete etc.) - 4mm (8 SWG) x 50mm	sq.m	9.6			
38	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth - In cement mortar 1:5	cu.m	80.64			
39	Providing and laying Hand packed stone filling or soling with stones	cu.m	24.38			
40	Steel work riveted or bolted, in built up sections, trusses, frame-works, including cutting, hoisting, fixing and appl. priming coat of red lead paint - In Tees, angles, flats and channels	kg	925.33			
41	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red lead paint - In Tubular sections	kg	2485.9			
42	Providing & fixing M.S. fan clamps of 16 mm dia. in R.C. slabs, including painting with red lead paint	each	6			

43	Providing & fixing in position dressed wood work in frames of doors, windows, clerestory windows and other frames, wrought and framed - Mixed Conifer	cu.m	1.21			
44	Providing & fixing Eaves board (225x25mm) with moulding fitted and fixed with necessary screws - Mixed Conifer	m	60.2			
45	Providing & fixing roof framing, in trusses, purlins, rafters, posts, post plates including hoisting, etc. (excluding steel items) - Mixed Conifer	cu.m	0.23			
46	Providing & fixing gussets for timber trusses including wood preservative (coal tar) - 12mm phenolic plywood	sq.m	201.35			
47	Providing & fixing Plywood lining with necessary nails etc. including beading complete (excluding cost of frame) - 6 mm, commercial	sq.m	102.88			
48	Providing & fixing 25mm thick Panelled or glazed Shutters for cup-boards etc. complete including hinges - Mixed Conifer	sq.m	39.92			
49	Providing & fixing 35mm thick Panelled or glazed doors and windows Shutters etc. complete including hinges - Mixed Conifer	sq.m	8.1			
50	Providing & fixing M.S. round or square bars with M.S. flats in window frames	kg	138.88			
51	Providing & fixing M.S. tower bolt (barrel type) with necessary screws etc. complete - 150mm	each	22			
52	Providing & fixing M.S. sliding door bolt, bright finished, enamelled with necessary screws etc. complete - 250mm	each	5			
53	Providing & fixing M.S. handle with necessary screws etc. complete - 125mm	each	30			
	<b>Total of civil works Nu.</b>					

1	Supplying of 4- Core 1.1KV grade PVC insulated and sheathed Aluminium conductor armoured power cables-16sq.mm	mtrs	100			
2	Laying of one number PVC insulated and sheathed power cable copper/aluminium,armoured/un-armoured 1.1KV single core to four core direct in the ground including excavation, sand cushioning, protective covering and refilling the trenches etc. as required-Above 6sq.mm to 25sq.mm	mtrs	90			
3	P/f of wooden board with wire mesh,locking arrangement,hinges,shutter etc as required size as per the requirement at site	each	1			
4	P/f of three phase energy meter from BPC with connection, testing and commissioning etc as required- three phase meter as per the rating requirement of the building	each	1			
5	Supplying of & Installation, testing & commissioning panel moulded case circuit breaker (MCCB) with electronic release, breaking capacity 25KA, 4 pole 415 volt A.C complete with all accessories etc. as required - 125A	each	1			
6	Supply & fixing of TPN distribution board (DIN type, horizontal/Vertical) without door, 415 volt A.C complete with all accessories without MCB/isolator/RCCB out going or incoming etc. as required-6 way	each	1			
7	Supply & fixing of SPN distribution board (DIN type) with metal door, 230 volt A.C complete with all accessories without MCB/isolator/RCCB out going or incoming etc. as required - 4 way	each	1			

8	Supply & Installation, testing & commissioning of miniature circuit breaker (MCB) single pole, 230 volt A.C complete with all accessories suitable to fix on a dinbar etc. as required-10A	each	4			
9	Supply & Installation, testing & commissioning of miniature circuit breaker (MCB) single pole, 230 volt A.C complete with all accessories suitable to fix on a dinbar etc. as required - 20A	each	10			
10	Supply & Installation, testing & commissioning of miniature circuit breaker (MCB) 4 pole & neutral, 415 volt A.C complete with all accessories suitable to to fix on a din-bar etc. as required- 63A	each	1			
11	Wiring for light, fans, call bell and 2 pin light socket outlet with 1.5 sq.mm 1.1kV grade, PVC insulated copper conductor cable in PVC casing and capping including connections, painting, testing & commissioning etc., as required. Short point	pts	2			
12	Wiring for light, fans, call bell and 2 pin light socket outlet with 1.5 sq.mm 1.1kV grade, PVC insulated copper conductor cable in PVC casing and capping including connections, painting, testing & commissioning etc., as required. Medium point	pts	6			
13	Wiring for light, fans, call bell and 2 pin light socket outlet with 1.5 sq.mm 1.1kV grade, PVC insulated copper conductor cable in PVC casing and capping including connections, painting, testing & commissioning etc., as required. Long point	pts	20			

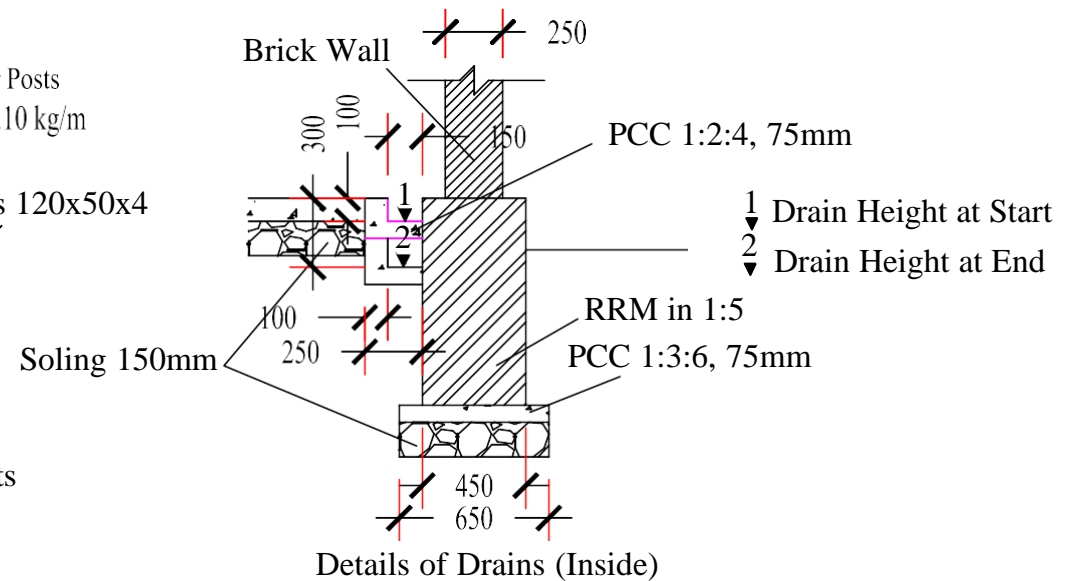
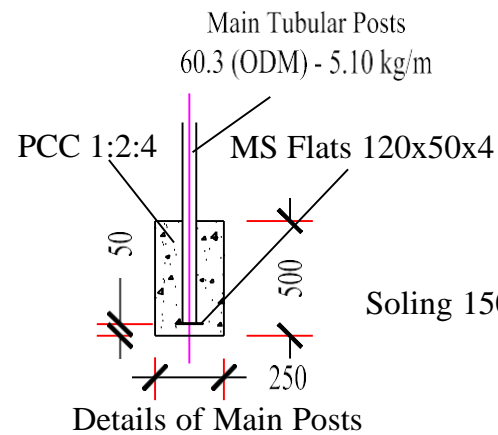
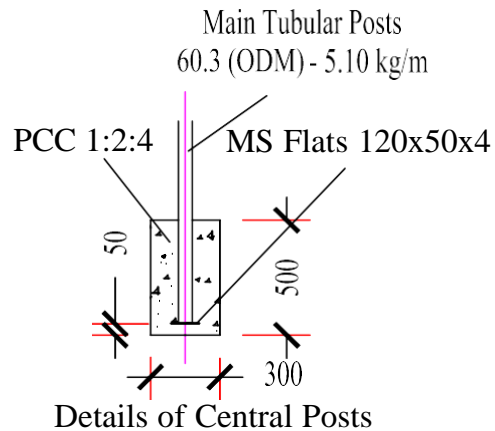
14	Wiring for 5/6 pin, 16 ampere plug point with 4 sq.mm 1.1kV grade,PVC insulated copper conductor cable in PVC casing & capping with providing and fixing 5/6 pin, 6/16 ampere socket outlet & switch including earthing the third pin,connections, painting, testing & commissioning etc. as required-long point	pts	12			
15	Wiring for points in excess length above long points with 1.1kV grade, PVC insulated copper conductor cable in PVC casing and capping including connections,painting, testing and commissioning etc. as required. - 2x1.5 sq.mm	mtrs	45			
16	Wiring for points in excess length above long points with 1.1kV grade, PVC insulated copper conductor cable in PVC casing and capping including connections,painting, testing and commissioning etc. as required. - 2x4 sq.mm	mtrs	100			
17	Wiring for lighting circuit with 1.1kV grade, PVC insulated copper conductor cable in PVC casing & capping including connections, painting, testing & commissioning etc. as required- 2x2.5sq.mm	mtrs	120			
18	Supplying & fixing of prewired indoor surface LED tube light complete with all accessories with necessary testing & commissioning as required 18W	each	18			
19	Supplying & fixing of prewired indoor recessed ceiling mounted Down light LED luminaires of 3000/4000/6000k, complete with all accessories with necessary testing & commissioning & cutting & painting as required.18 watts	each	10			

20	Providing and fixing of earthing including all accessories, machinery enclosure, C.I cover plate having locking arrangement, watering pipe with excavation and refilling work including charcoal or coke and salt complete as required as per standard earthing drawing -With G.I earth plate 600x600x6mm	each	1			
	<b>Total of electrical works Nu.</b>					
	<b>Grand total Nu.</b>					

We agree to execute the works in accordance with the approved drawings and technical specifications at a total fixed contract price of Rs. .... (amount in figures)  
(Rs. .... amount in words).

**Signature of Contractor**

# Annexure-3



ROYAL GOVERNMENT OF BHUTAN

MINISTRY OF AGRICULTURE

Department of Agriculture

*Walking the extra mile*



**Project:** Construction of Centralized Pack House at Samtse, Haa and Dagana  
(Food Security & Agriculture Productivity Project, DoA, MoAF)

**Title:** Foundation & Drain Details

Scale

Date:-

Initials

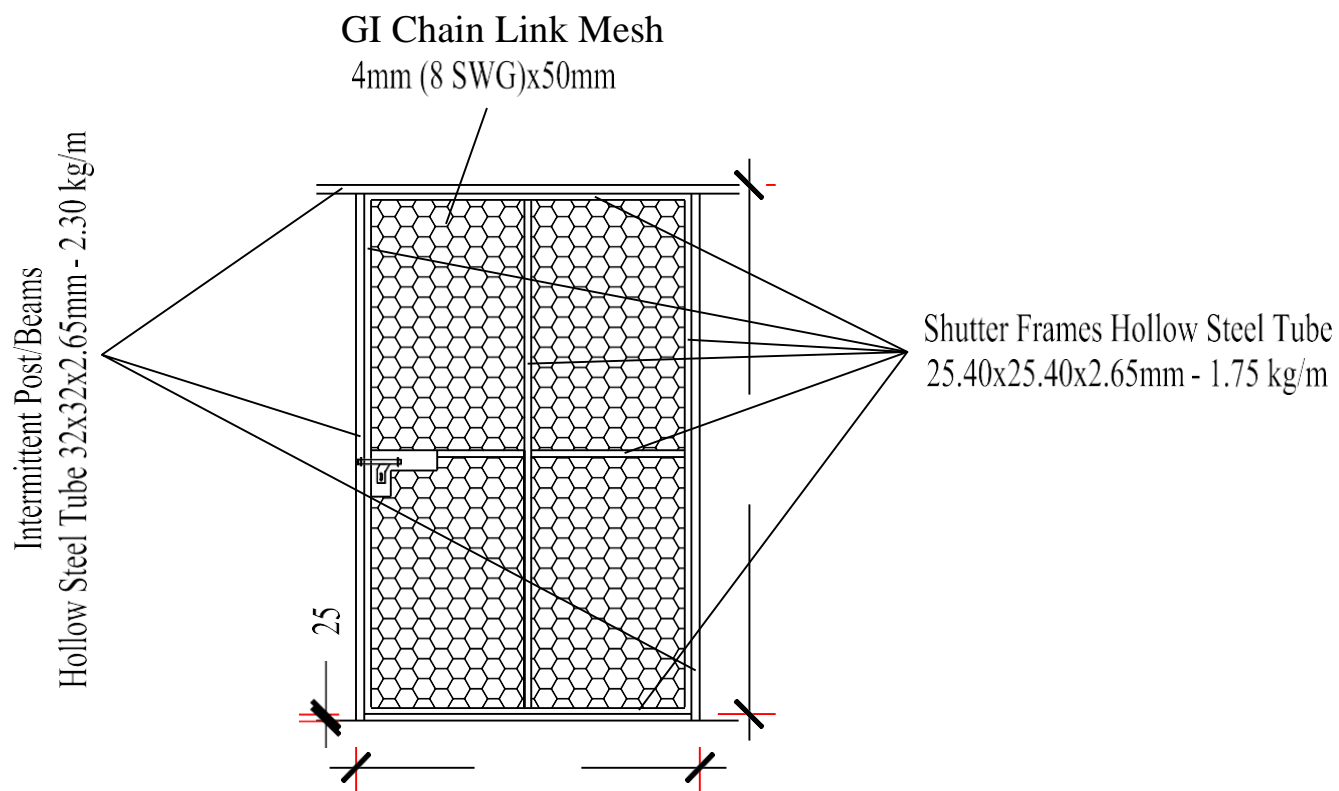
Drawing No: 10

All dimension in mm

Drawn by: Tshering

Approved by: Chief Engineer





Door Shutter Details



ROYAL GOVERNMENT OF BHUTAN

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Department of Agriculture

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**Project:** Construction of Centralized Pack House at Samtse, Haa and Dagana  
(Food Security & Agriculture Productivity Project, DoA, MoAF)

**Title:** Door Shutter Details

Scale

Date:-

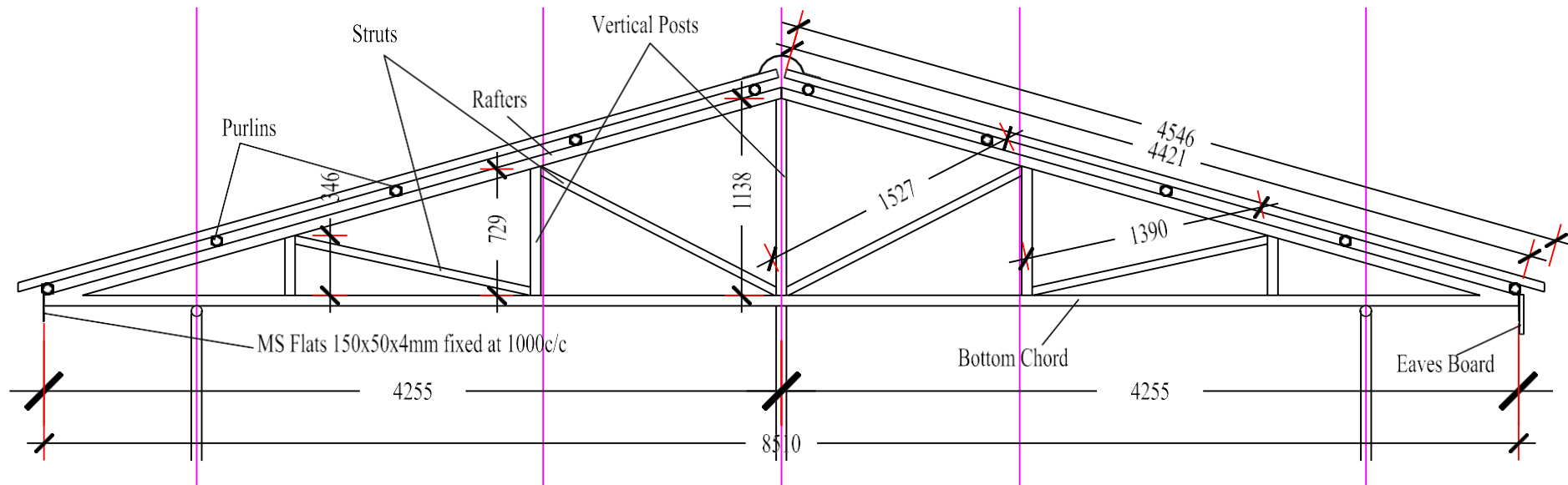
Initials

Drawing No: 9

All dimension in mm

Drawn by: Tshering

Approved by: Chief Engineer



Member	Steel Tube Size	Thickness	Note:- ODM
Rafter/Bottom Chord	60.30 ODM, 5.10 kg/m	3.60mm	OD :- Outer Diameter M:- Medium
Struts	48.30 ODM, 3.59 kg/m	3.20mm	
Vertical Posts	60.30 ODM, 5.10 kg/m	3.60mm	
Purlins	60.30 ODM, 5.10 kg/m	3.60mm	



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**Project:** Construction of Centralized Pack House at Samtse, Haa and Dagana  
(Food Security & Agriculture Productivity Project, DoA, MoAF)

**Title:** Roof Truss Details

Scale

Date:-

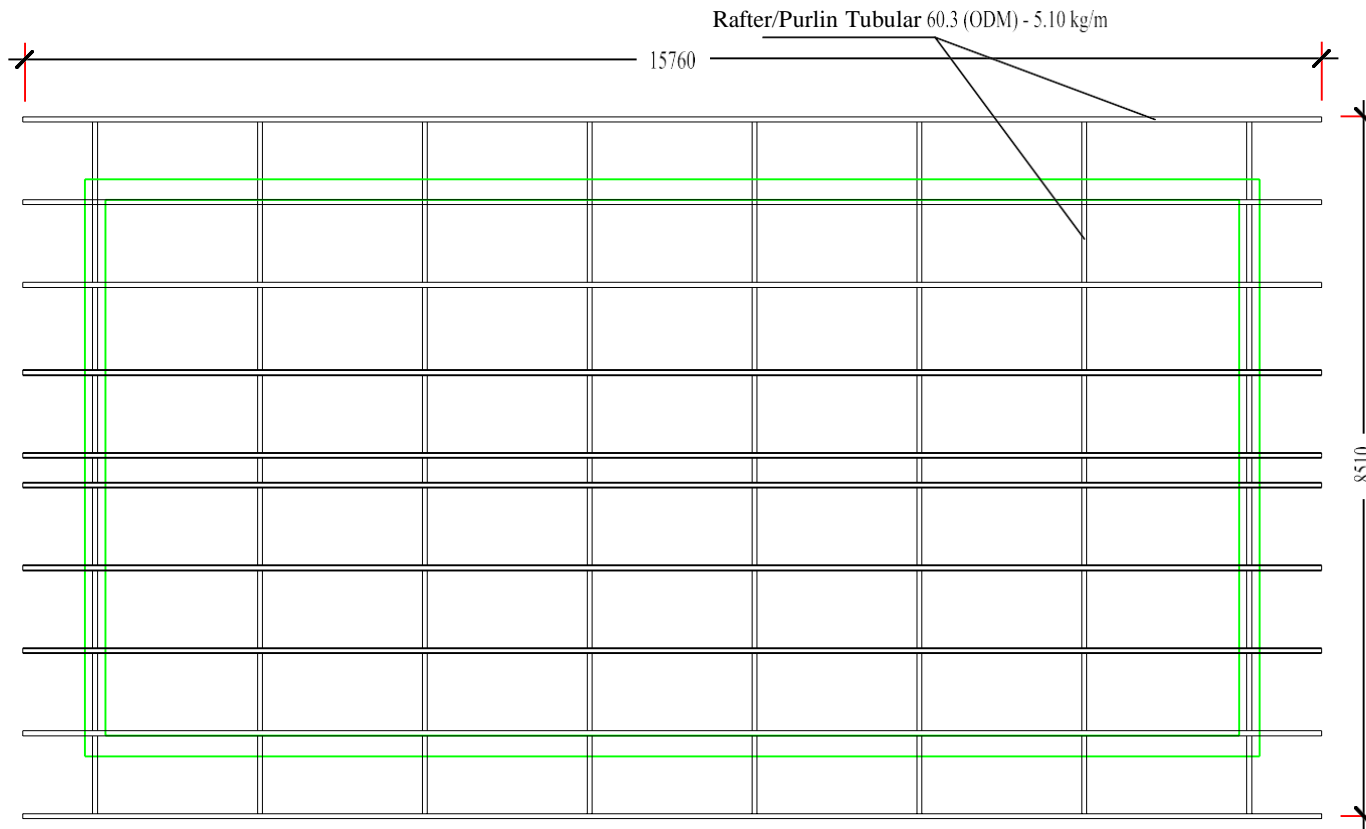
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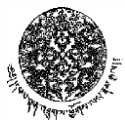
All dimension in mm

Drawn by: Tshering

Approved by: Chief Engineer



ROOF TRUSS LAYOUT PLAN



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*Walking the extra mile*



**Project:** Construction of Centralized Pack House at Samtse, Haa and Dagana  
(Food Security & Agriculture Productivity Project, DoA, MoAF)

**Title:** Roof Truss Layout Plan

Scale

Date:-

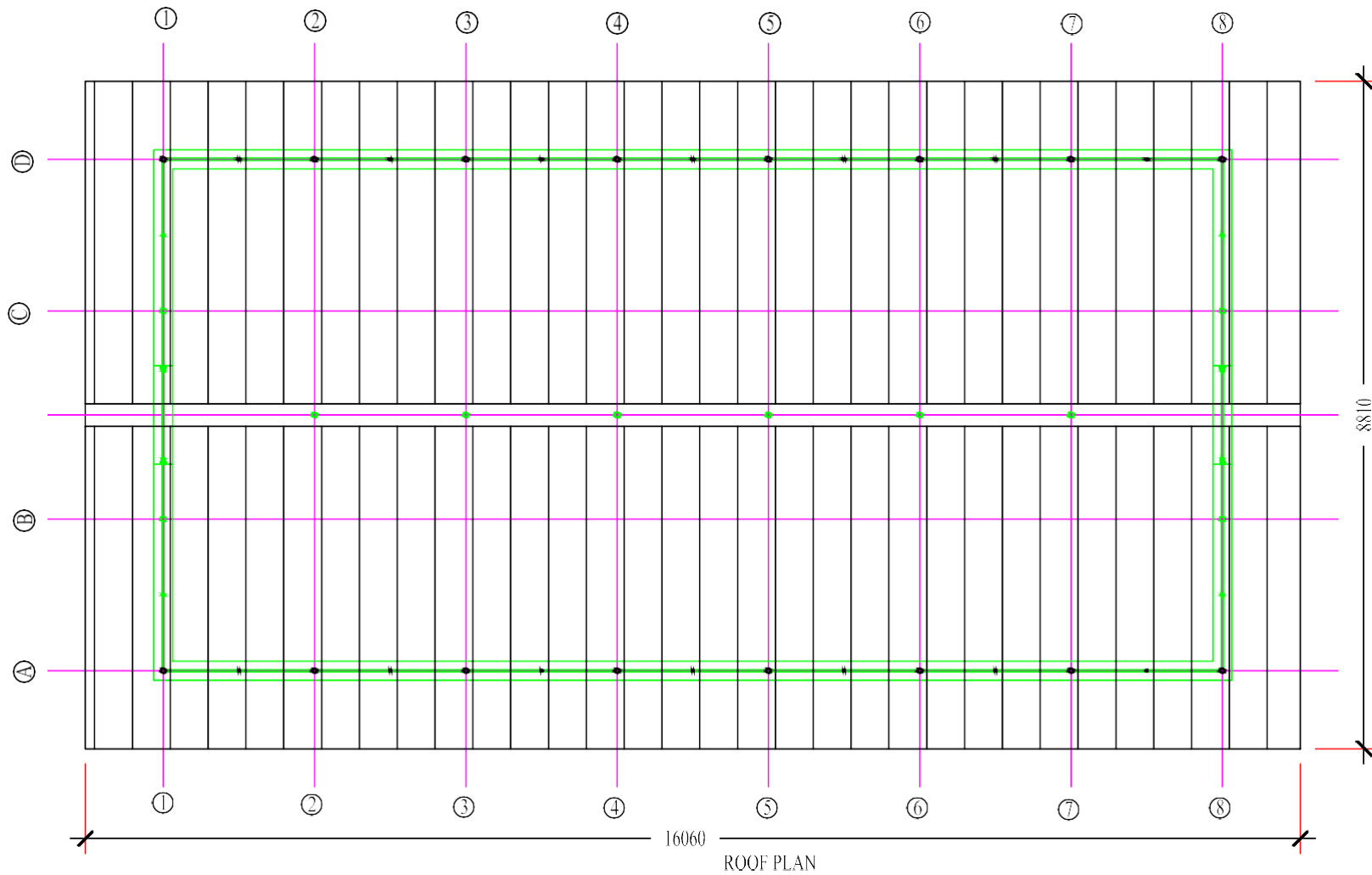
Initials

Drawing No: 7

All dimension in mm

Drawn by: Tshering

Approved by: Chief Engineer



ROYAL GOVERNMENT OF BHUTAN

MINISTRY OF AGRICULTURE

Department of Agriculture

*Walking the extra mile*



**Project:** Construction of Centralized Pack House at Samtse, Haa and Dagana  
(Food Security & Agriculture Productivity Project, DoA, MoAF)

**Title:** Roof Plan

Scale

Date:-

Initials

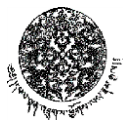
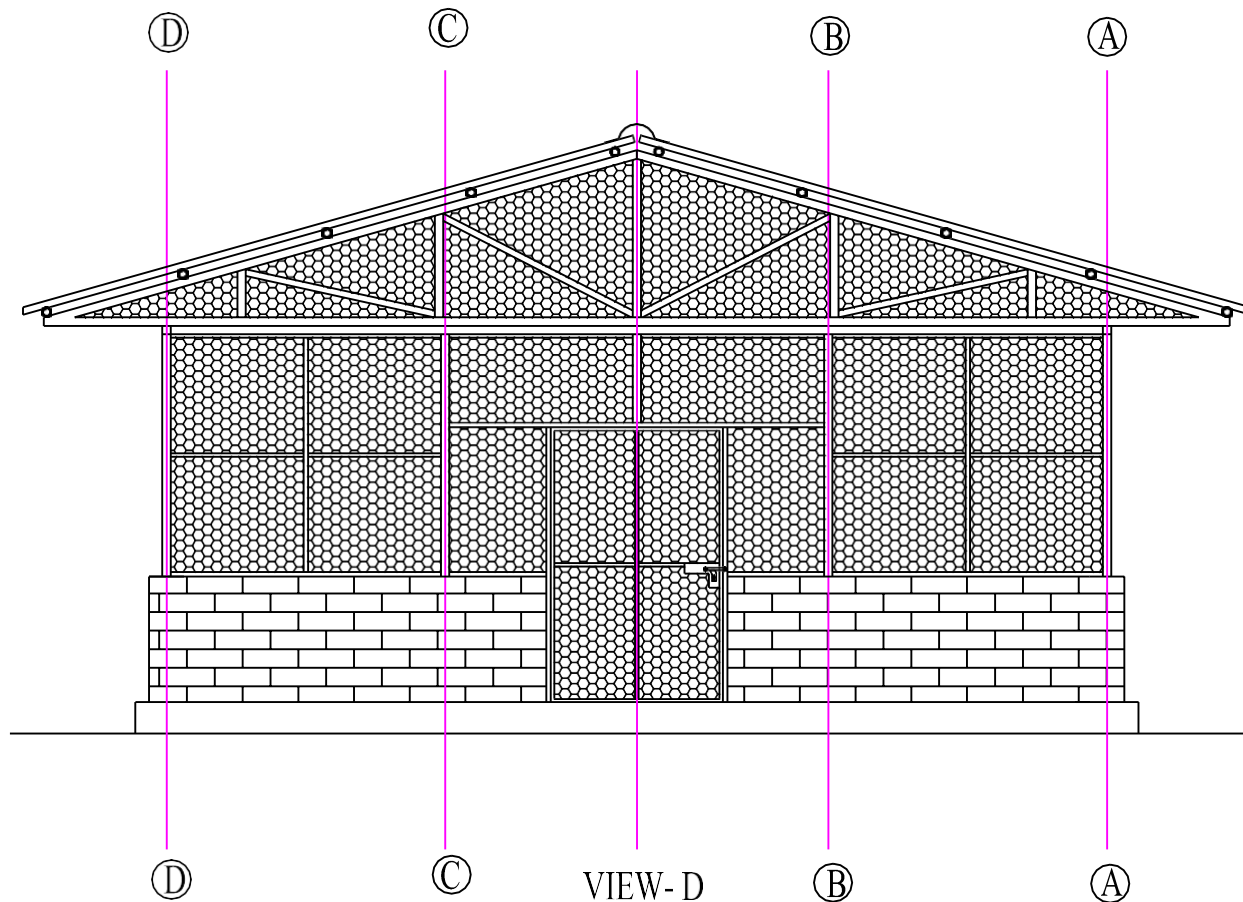
Drawing No: 6

All dimension in mm

Drawn by: Tshering

Approved by: Chief Engineer





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MINISTRY OF AGRICULTURE

Department of Agriculture

*Walking the extra mile*



**Project:** Construction of Centralized Pack House at Samtse, Haa and Dagana  
(Food Security & Agriculture Productivity Project, DoA, MoAF)

**Title:** Elevation from View -D

Scale

Date:-

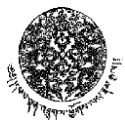
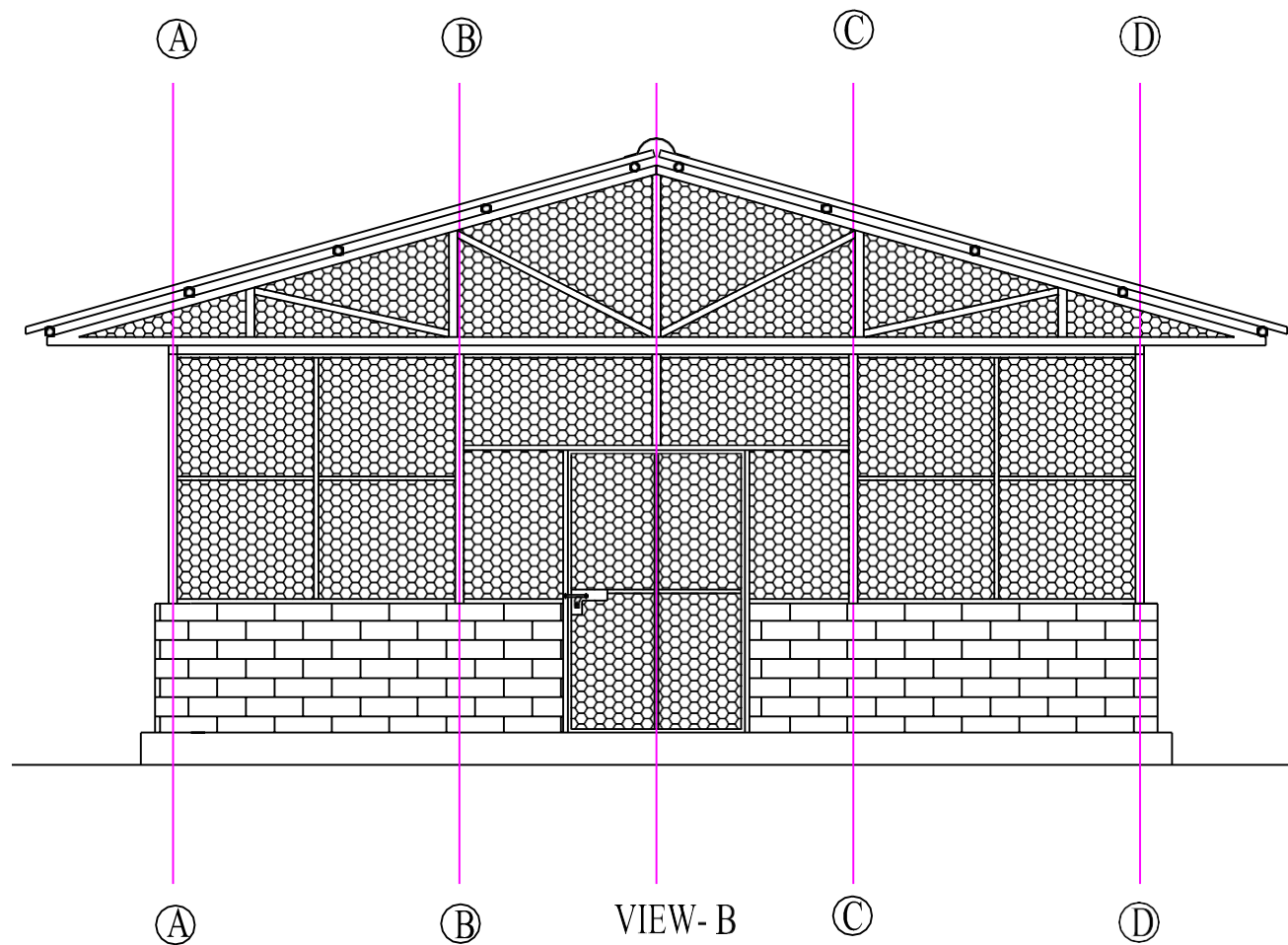
Initials

Drawing No: 4

All dimension in mm

Drawn by: Tshering

Approved by: Chief Engineer



ROYAL GOVERNMENT OF BHUTAN

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Department of Agriculture

*Walking the extra mile*



**Project:** Construction of Centralized Pack House at Samtse, Haa and Dagana  
(Food Security & Agriculture Productivity Project, DoA, MoAF)

**Title:** Elevation from View -B

Scale

Date:-

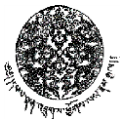
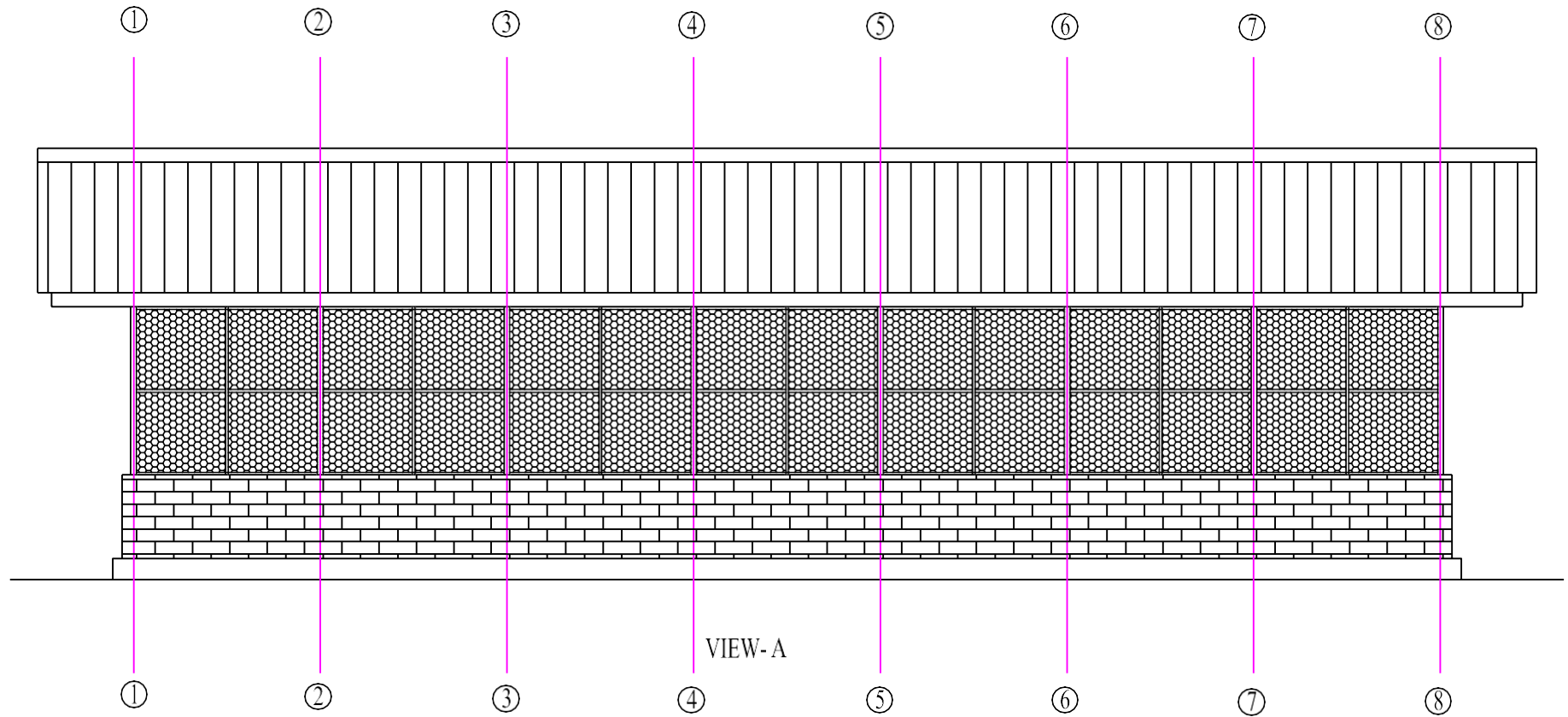
Initials

Drawing No: 3

All dimension in mm

Drawn by: Tshering

Approved by: Chief Engineer



ROYAL GOVERNMENT OF BHUTAN

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Department of Agriculture

*Walking the extra mile*



**Project:** Construction of Centralized Pack House at Samtse, Haa and Dagana  
(Food Security & Agriculture Productivity Project, DoA, MoAF)

**Title:** Elevation from View -A

Scale

Date:-

Initials

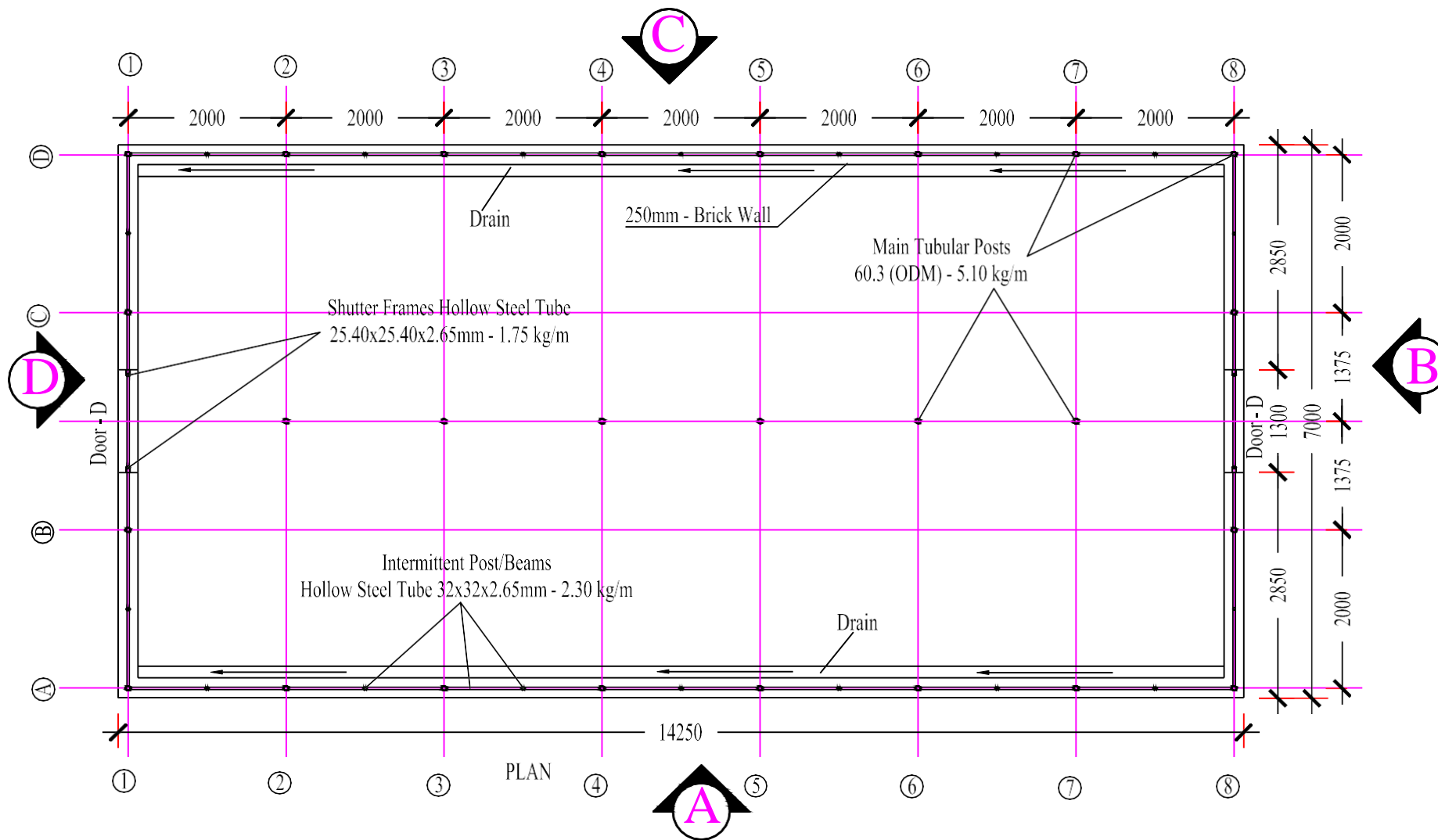
Drawing No: 2

All dimension in mm

Drawn by: Tshering

Approved by: Chief Engineer





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*Walking the extra mile*



**Project:** Construction of Centralized Pack House at Samtse, Haa and Dagana  
(Food Security & Agriculture Productivity Project, DoA, MoAF)

Title: Plan

Scale

Date:-

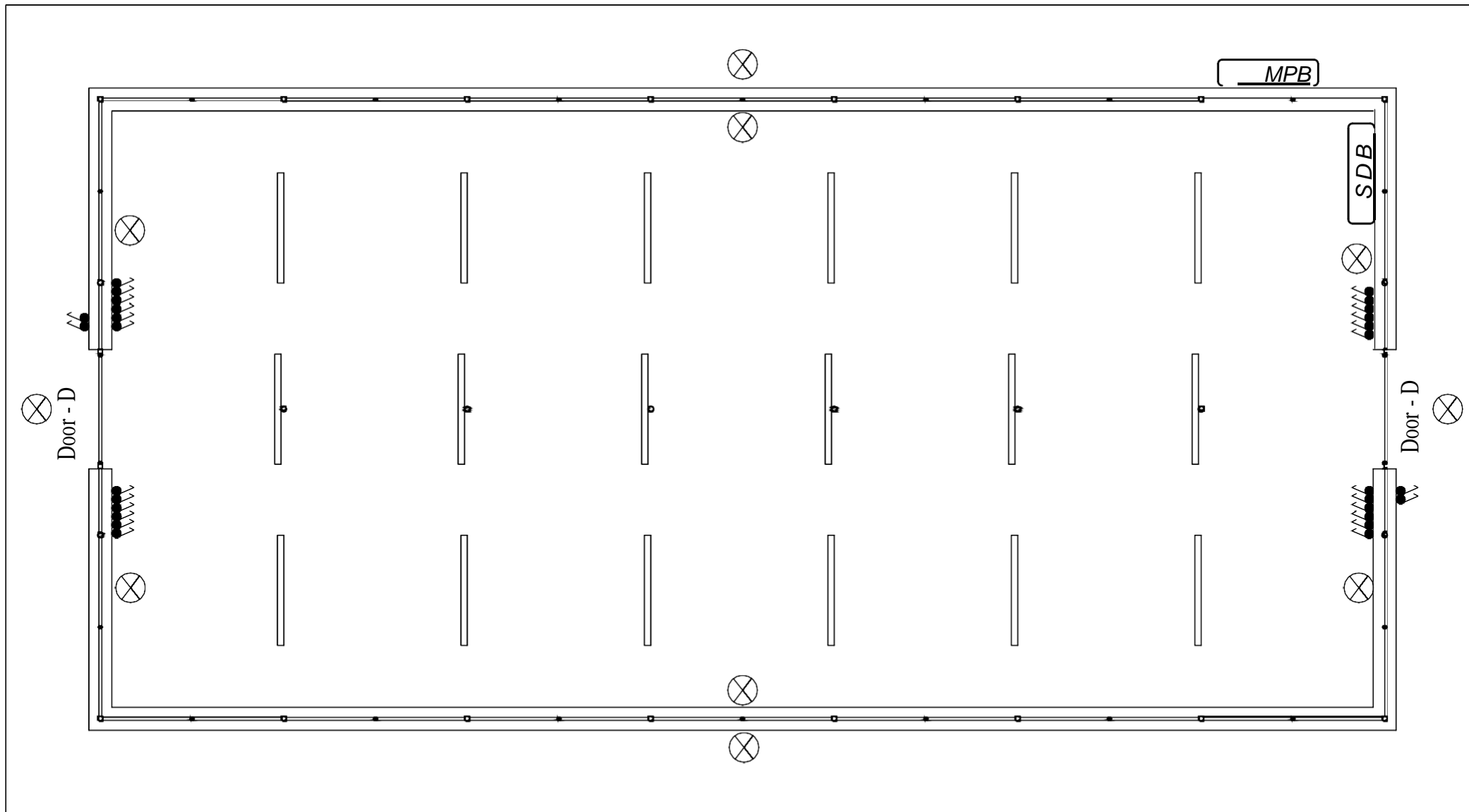
Initials

Drawing No: 1

All dimension in mm

Drawn by: Tshering

Approved by: Chief Engineer



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*Walking the extra mile*



**Project:** Construction of Centralized Pack House at Samtse, Haa and Dagana  
(Food Security & Agriculture Productivity Project, DoA, MoAF)

**Title:**Electrical Light Points

**Scale**

**Date:-**

**Initials**

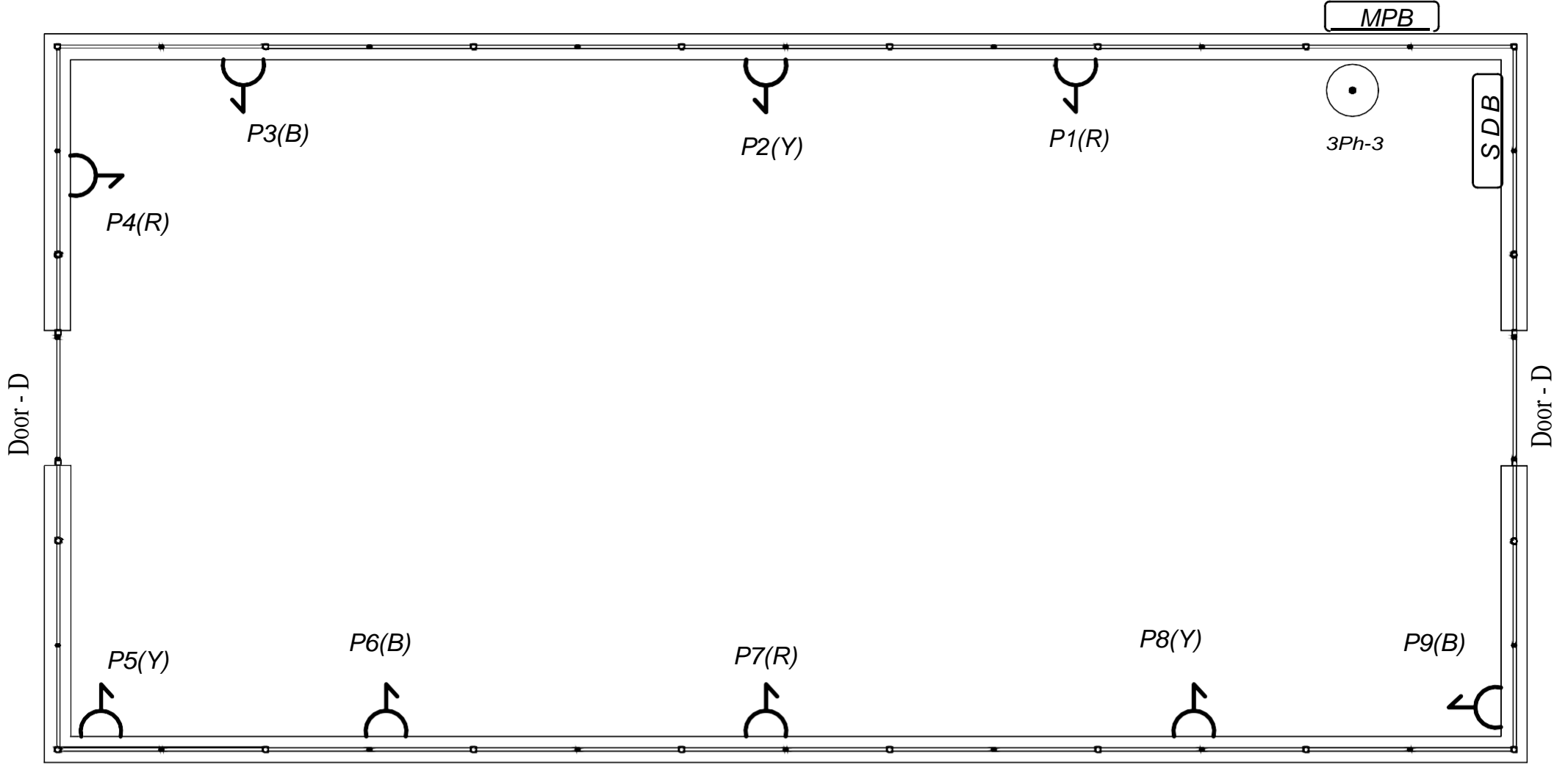
**Drawing No:** 1

All dimension in mm

**Drawn by:** Yeshey Lhendup

**Checked by:** Tshering(P.E)

**Approved by:** Chief Engineer

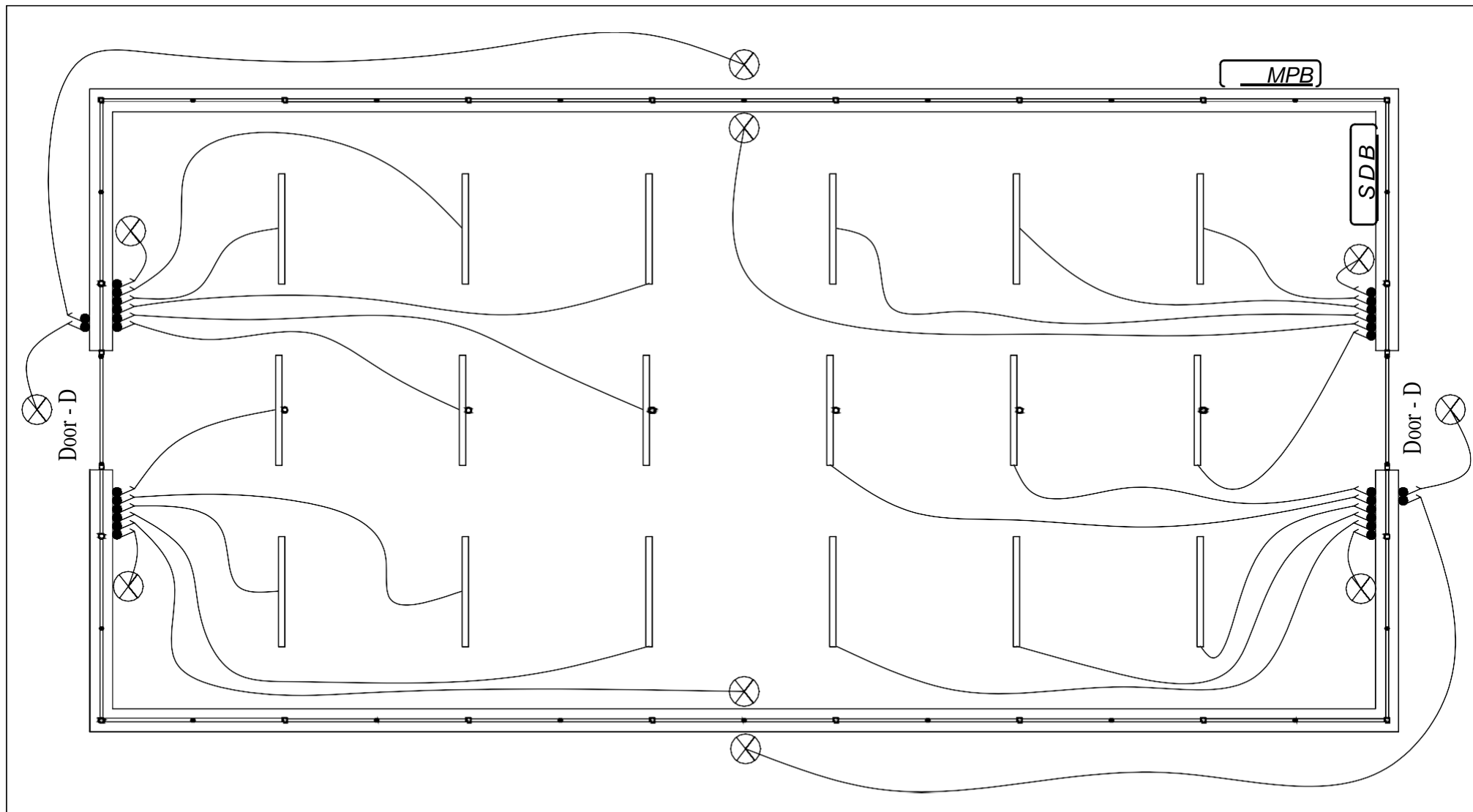


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 Department of Agriculture  
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<b>Project:</b> Construction of Centralized Pack House at Samtse, Haa and Dagana (Food Security & Agriculture Productivity Project, DoA, MoAF)		
<b>Title:</b> Electrical Plug Points		<b>Scale</b>
<b>Date:-</b>	<b>Initials</b>	<b>Drawing No:</b> 2
		All dimension in mm

Drawn by: Yeshey Lhendup
Checked by: Tshering(P.E)
Approved by: Chief Engineer



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**Project:** Construction of Centralized Pack House at Samtse, Haa and Dagana  
(Food Security & Agriculture Productivity Project, DoA, MoAF)

**Title:**Light Points Wiring Plan

Scale

Date:-

Initials

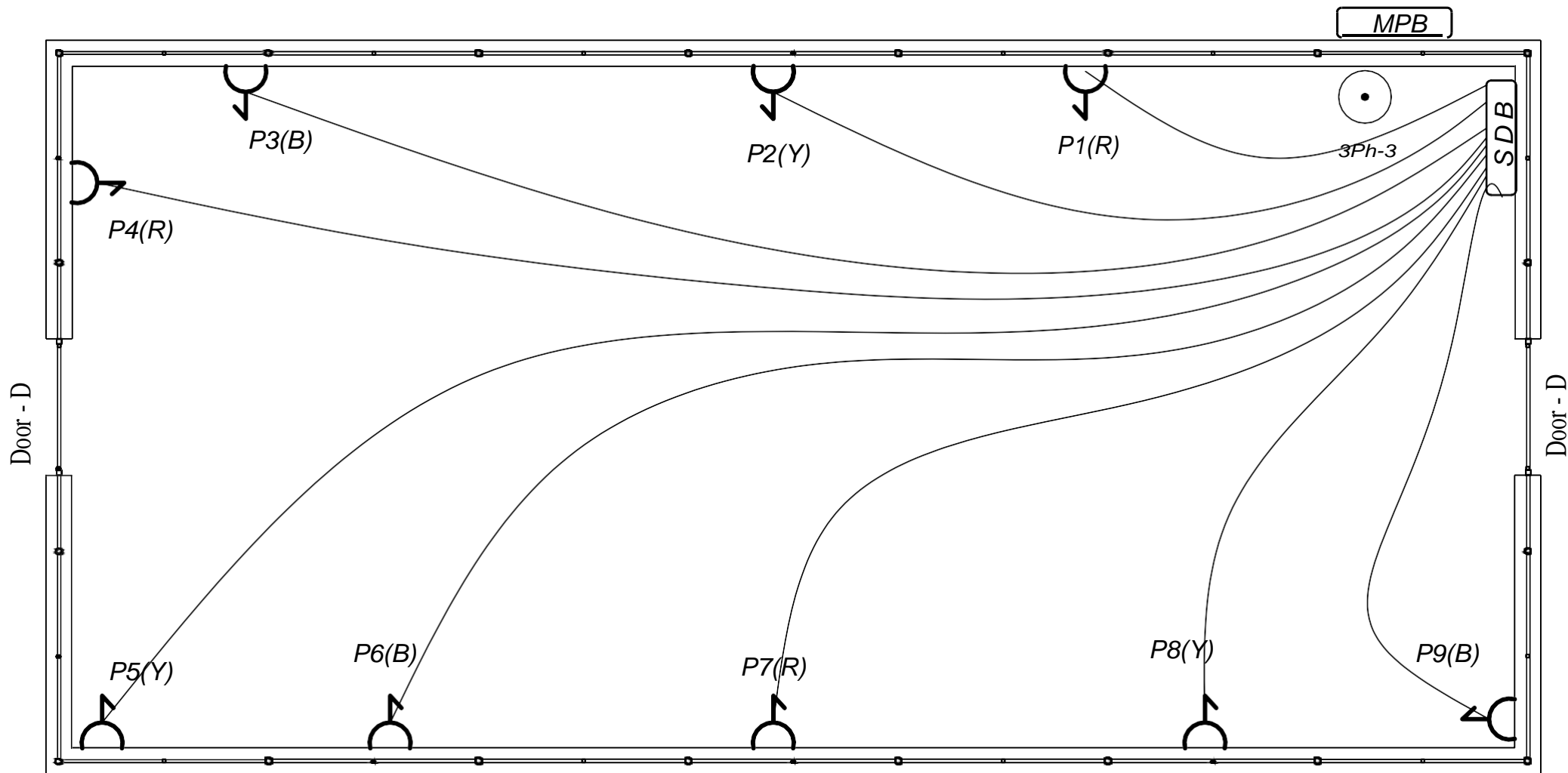
Drawing No: 3

All dimension in mm

Drawn by: Yeshey Lhendup

Checked by: Tshering(P.E)

Approved by: Chief Engineer



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**Project:** Construction of Centralized Pack House at Samtse, Haa and Dagana  
(Food Security & Agriculture Productivity Project, DoA, MoAF)

**Title:** Plug Points Wiring Plan

**Scale**

**Date:-**

**Initials**

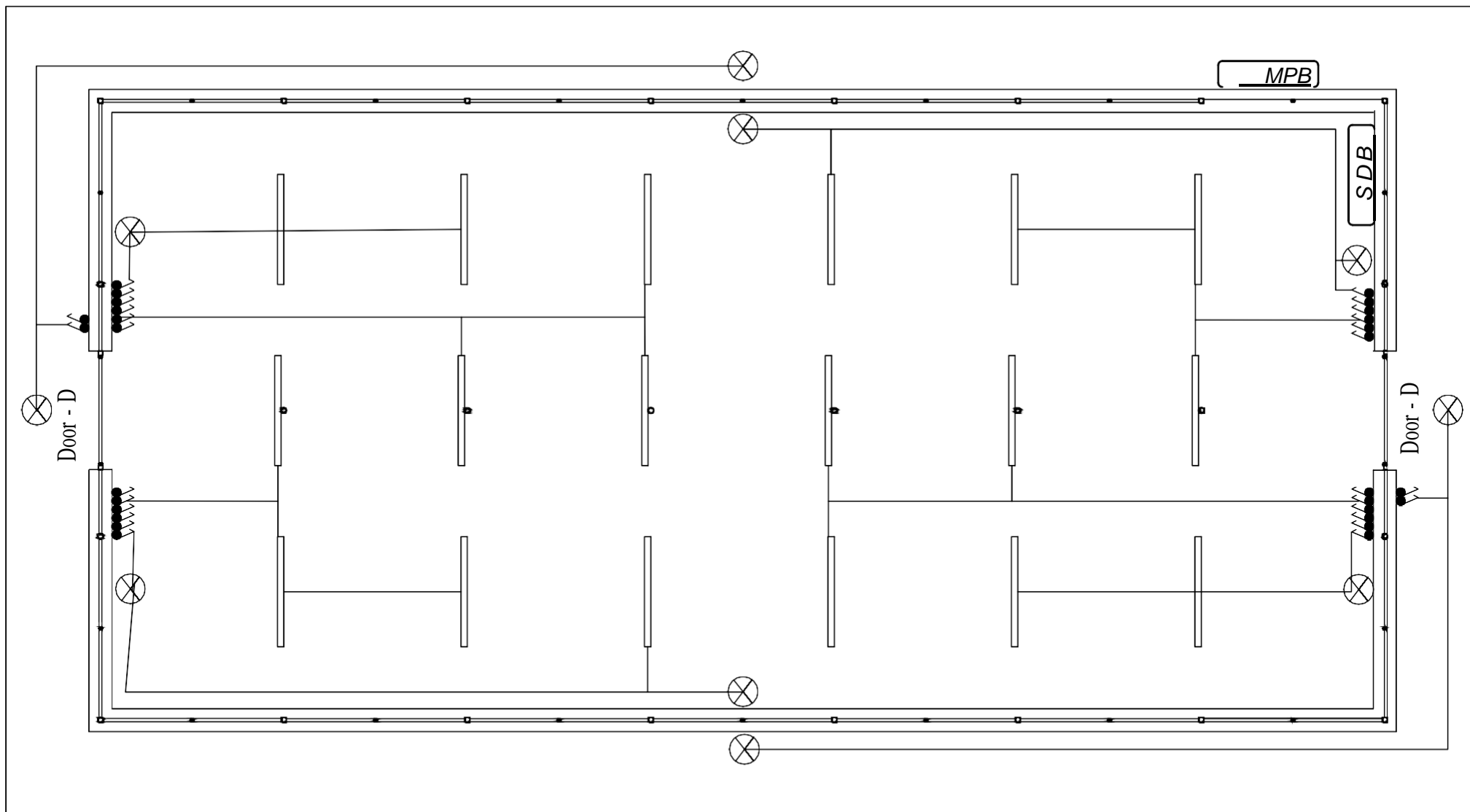
**Drawing No:** 4

All dimension in mm

Drawn by: Yeshey Lhendup

Checked by: Tshering(P.E)

Approved by: Chief Engineer



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Department of Agriculture

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**Project:** Construction of Centralized Pack House at Samtse, Haa and Dagana  
(Food Security & Agriculture Productivity Project, DoA, MoAF)

**Title:** Light Points Conduit Layout Plan

Scale

Date:-

Initials

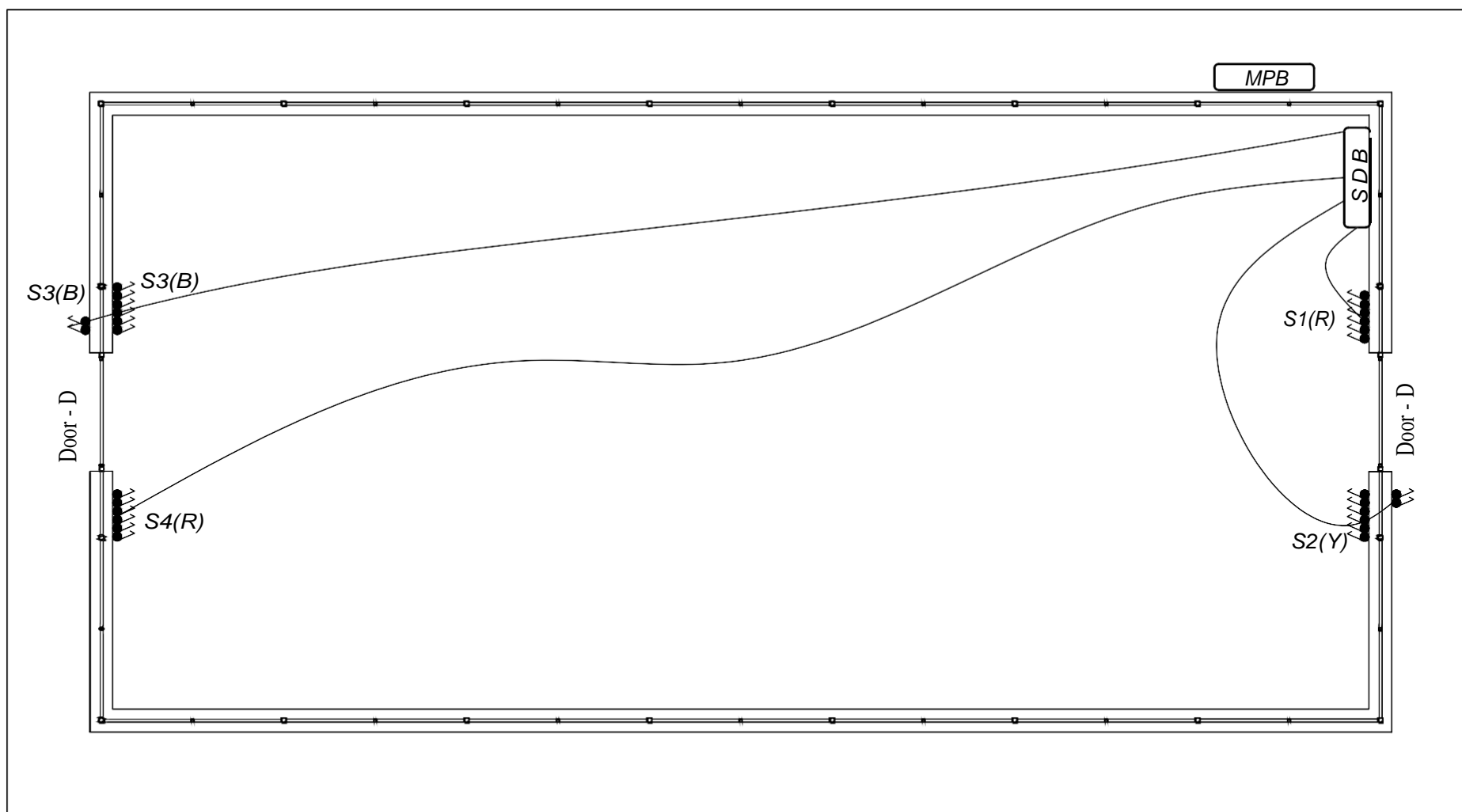
Drawing No: 5

All dimension in mm

Drawn by: Yeshey Lhendup

Checked by: Tshering(P.E)

Approved by: Chief Engineer



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**Project:** Construction of Centralized Pack House at Samtse, Haa and Dagana  
(Food Security & Agriculture Productivity Project, DoA, MoAF)

**Title:** Light Circuit wiring & Conduit Layout  
Plan

Scale

Date:-

Initials

Drawing No: 6

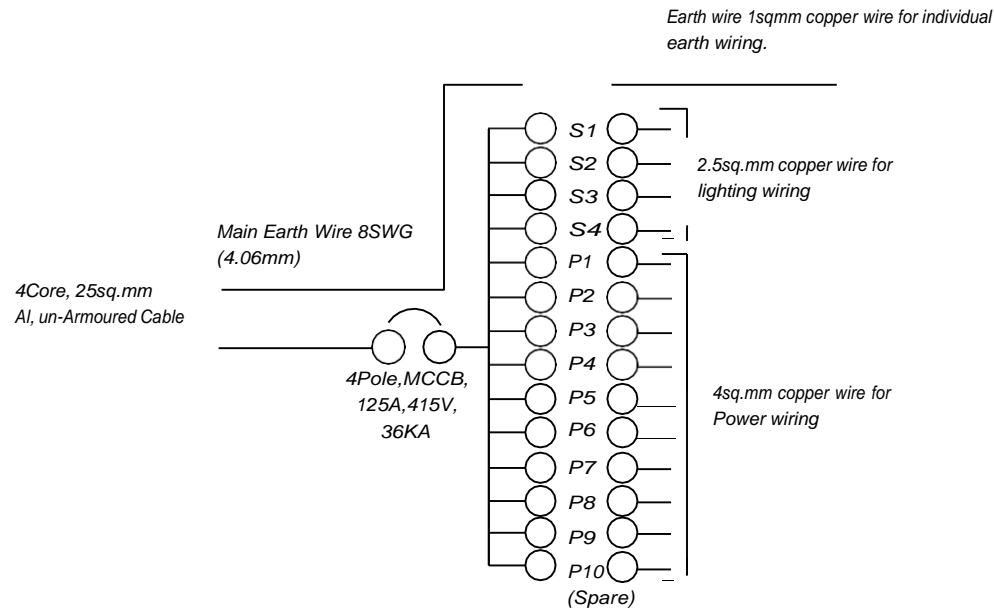
All dimension in mm

Drawn by: Yeshey Lhendup

Checked by: Tshering(P.E)

Approved by: Chief Engineer

**MPB/Sub Distribution Board , 6Ways TPN**  
**6/10A, MCB, SP - 4 nos**  
**16A, MCB, SP - 10 nos**



R	Y	B
102	—	—
—	135	—
—	—	135
102	—	—
2000	—	—
—	2000	—
—	—	2000
2000	—	—
—	2000	—
—	—	2000
2000	—	—
—	2000	—
—	—	2000
6,204 W	6,135 W	6,135 W

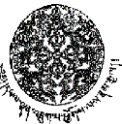
Total Load (Watts)

Total connected Load (Watts)

18474 watts = 18.45KW

Demand Load (Watts, 70% of DF)

12931.8 watts = 12.94KW



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**Project:** Construction of Centralized Pack House at Samtse, Haa and Dagana  
(Food Security & Agriculture Productivity Project, DoA, MoAF)

**Title:** MPB & SDB Details

**Scale**

**Date:-**

**Initials**

**Drawing No:** 7

All dimension in mm

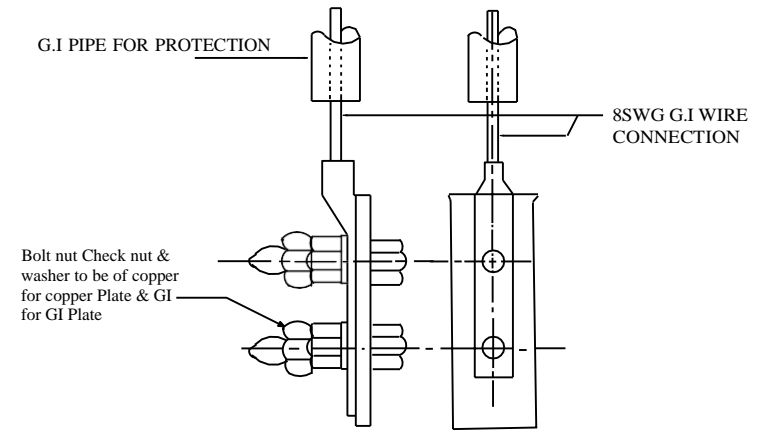
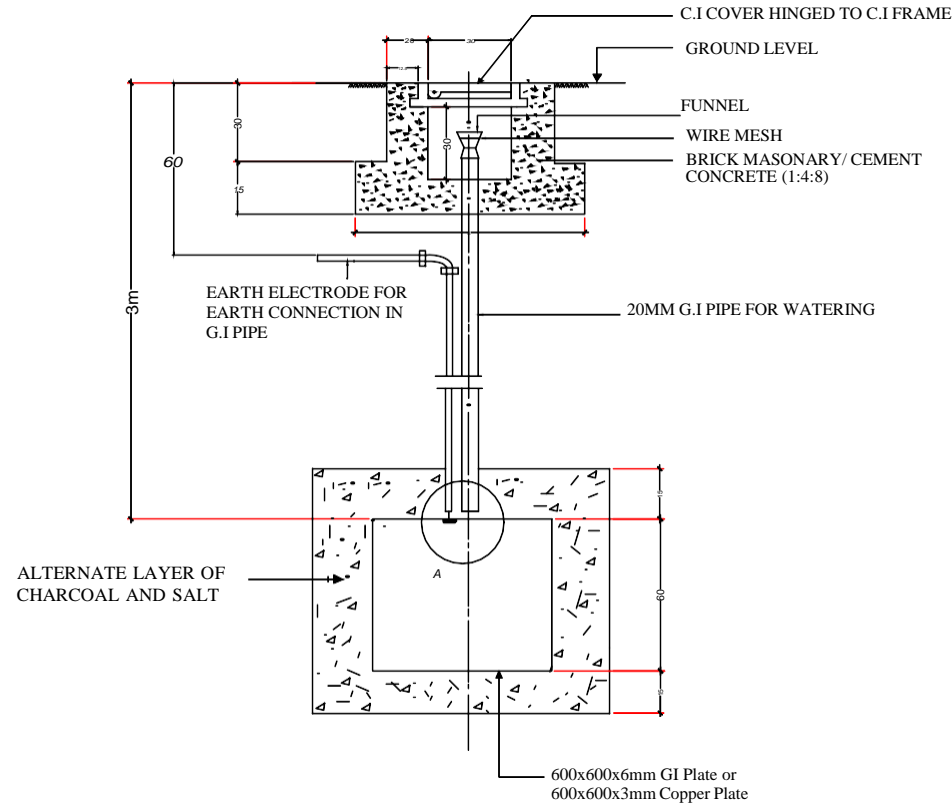
Drawn by: Yeshey Lhendup

Checked by: Tshering(P.E)

Approved by: Chief Engineer



# METHOD OF PLATE EARTHING



ENLARGED DETAIL AT A

NOTE:  
BOLT,NUT, CHECKNUT,AND WASHERS  
TO BE OF TINNED BRASS FOR COPPER PLATE

ALL DIMENSIONS ARE IN CM  
(OTHER DIMENSIONS SHOWN) DIMENSION NOT TO SCALE

EARTHING STATION SHALL BE 1.8M AWAY FROM THE BUILDING.



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**Project:** Construction of Centralized Pack House at Samtse, Haa and Dagana  
(Food Security & Agriculture Productivity Project, DoA, MoAF)

**Title:** Earthing Details

Scale

Date:-

Initials

Drawing No: 8

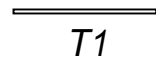
All dimension in mm

Drawn by: Yeshey Lhendup

Checked by: Tshering(P.E)

Approved by: Chief Engineer

## ELECTRICAL LEGENDS



*LED Tube set, 1200mm, 18W*

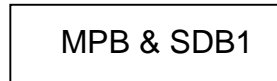


**B1**

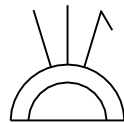
*LED lamp and holder 15watt*



*Single way switches NxGang*



*Main panel board & sub-distribution board1 for  
Ground floor.*



**P1**

*Socket outlet 16A, 220V with PVC moulded casing.*



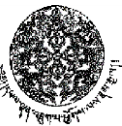
*Telephone point*



*Two way Switch*



*Bell.*



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**Project:** Construction of Centralized Pack House at Samtse, Haa and Dagana  
(Food Security & Agriculture Productivity Project, DoA, MoAF)

Drawn by: Yeshey Lhendup

Title:Electrical Legends

Scale

Checked by: Tshering(P.E)

Date:-

Initials

Drawing No: 9

All dimension in mm

Approved by: Chief Engineer

## SPECIFICATION FOR TELEPHONE WORK

- Telephone cable duct must be separated atleast by 0.5m away from electrical route.
- Telephone cable duct should be provided with 25mm dia, HDPE pipe of 10Kg/cm<sup>2</sup>
- Telephone terminal cabinet (T.T.C) at 1.5M above finish floor level and should be water tight & moisture proof of 250x200x150mm with cover and 25mm dia punch hole to all sides.
- Telephone socket outlet RJ-11 at 0.6M above finish floor level.
- Bridging method should be adopted if there is crossing

## TEST RESULTS:

Polarity test: All live conductors must be connected through switches only.

Insulation test: Minimum test result should not be less than 1 Mega Ohm.

Earth Continuity test: Low voltage test lamp should satisfy the whole insulation.

Earth test: Test result should be within 5 OHM.

## SPECIFICATION FOR ELECTRICAL WORKS:

- All light to be wired with 1.5 Sq.mm PVC insulated copper conductor, 1.1KV grade in Recessed HDPE Pipe
- All light circuits to be wired with 2.5 Sq.mm PVC Insulated copper conductor, 1.1KV Grade in Recessed HDPE Pipe.
- All Power point to be wired with 4Sq.mm PVC insulated copper conductor, 1.1KV grade in Recessed HDPE Pipe.
- All wall Fixtures to be fixed at 2.5M from Floor level.
- All Light switch boards should be fixed at 1.5M from Floor level.
- All Power points to be fixed at 0.3M from Floor level for all rooms except kitchen and Toilets at 1.5m from floor level.
- Minimum size of pipe / conduit is 19mm Dia / 18 SWG.
- Layout indicated 25mm dia (16SWG) HDPE pipe.
- No phase difference is permitted in the same conduit.
- All switch board should be fixed at 0.23M away from door & edge of walls.
- All SDB shall be fixed at 2.2m above the finished floor level.
- Power points shall not be looped.
- All materials shall be used approved brand specified by SQCA.



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Project: Construction of Centralized Pack House at Samtse, Haa and Dagana  
(Food Security & Agriculture Productivity Project, DoA, MoAF)

Title: Electrical Specifications

Scale

Date:-

Initials

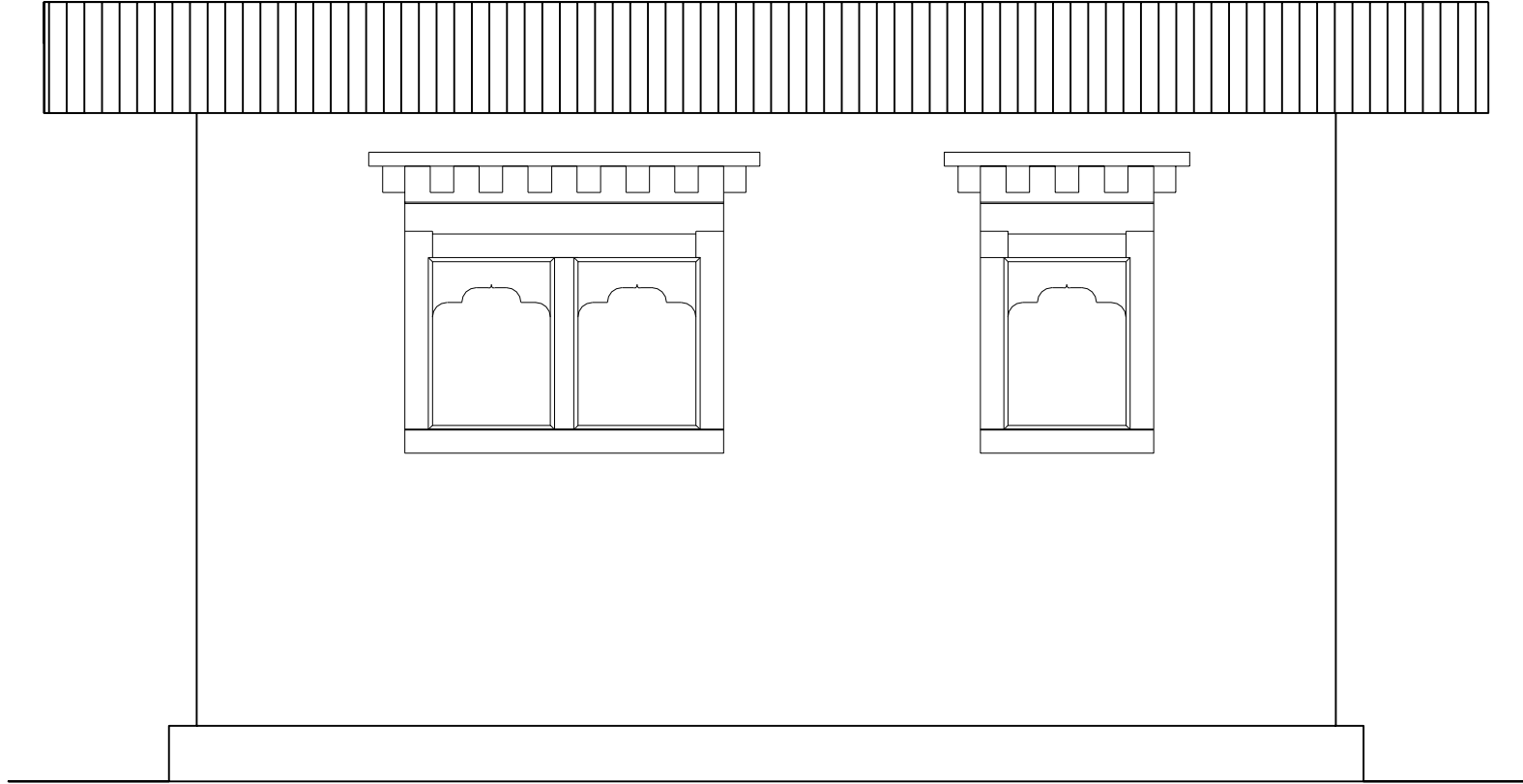
Drawing No: 10

All dimension in mm

Drawn by: Yeshey Lhendup

Checked by: Tshering(P.E)

Approved by: Chief Engineer



ROYAL GOVERNMENT OF BHUTAN  
DUNGKHAG ADMINISTRATION  
ENGINEERING SECTOR  
SOMBAYKHA: HAA



**Project Name:** Construction of attached toilet at pack house, S/Dungkhag, Haa.

**Drawing Title:** B/V

**Scale:** NTS

**Drawn by:** Kirtiman Rai, AE

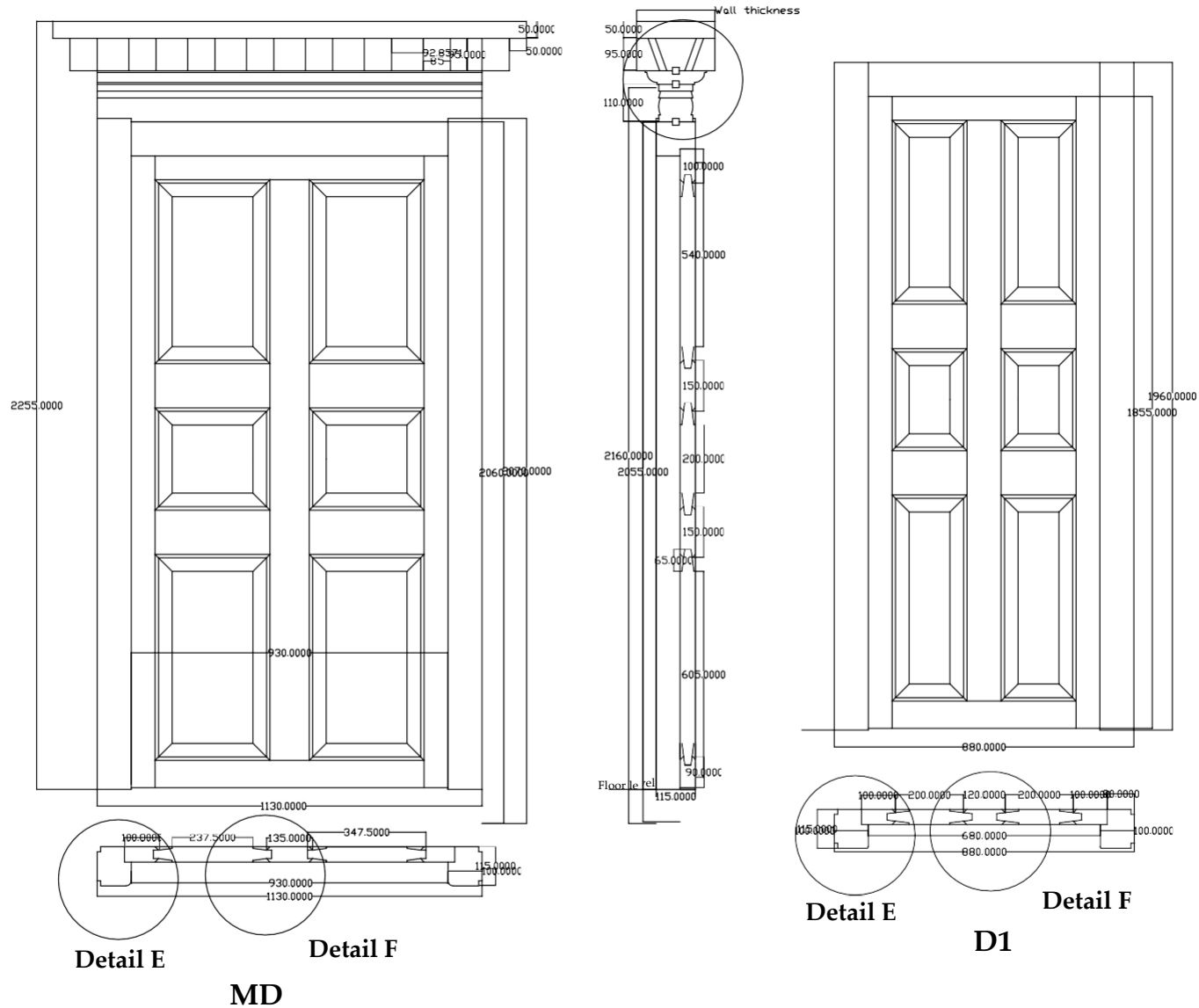
**Checked by:**

**Approved by:**

**Drawing No:**

*All dimensions are  
in mm unless  
otherwise specified*

**05**



ROYAL GOVERNMENT OF BHUTAN  
DUNGKHAG ADMINISTRATION  
ENGINEERING SECTOR  
SOMBAYKHA: HAA



**Project Name:** Construction of attached toilet at pack house, S/Dungkhag, Haa.

**Drawing Title:** Door

**Scale:** NTS

**Drawn by:** Kirtiman Rai, AE

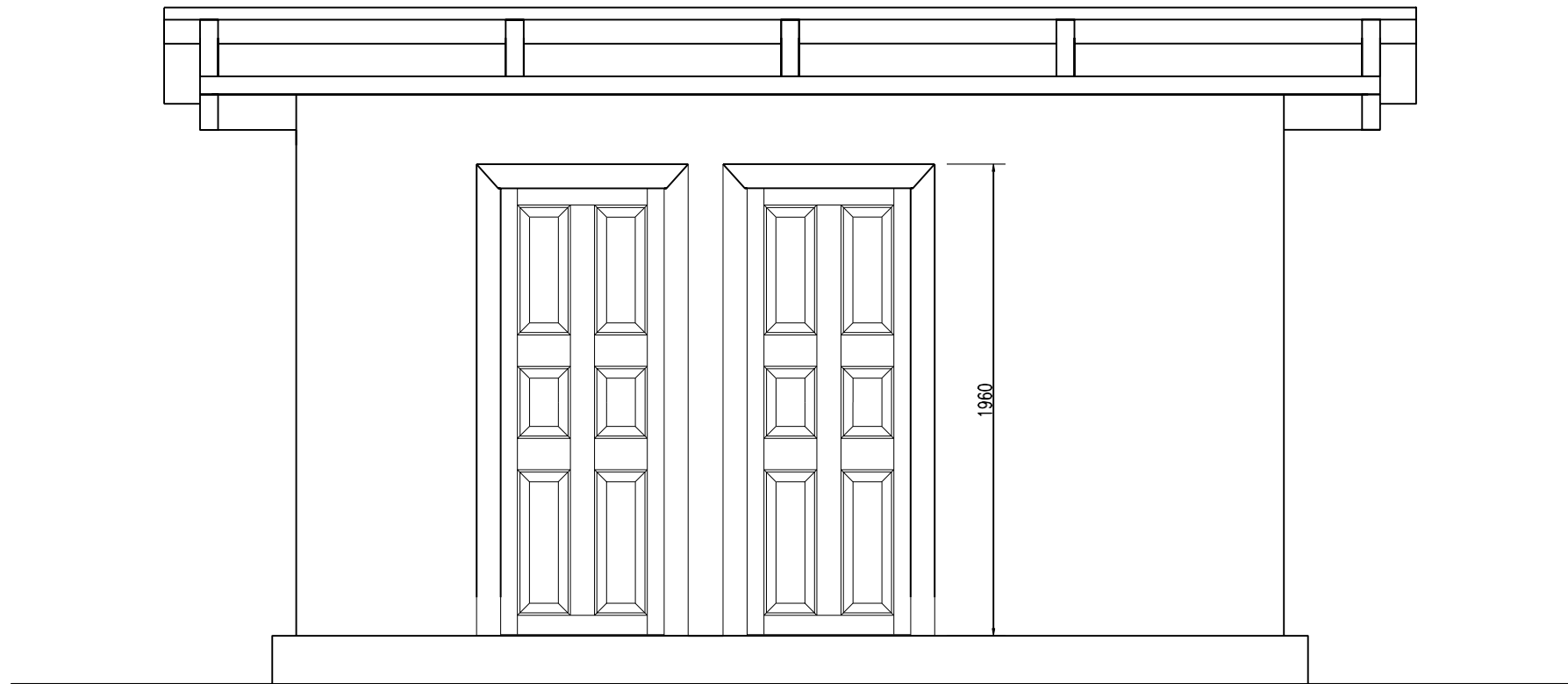
**Checked by:**

**Approved by:**

**Drawing No:**

All dimensions are  
in mm unless  
otherwise specified

07



ROYAL GOVERNMENT OF BHUTAN  
DUNGKHAG ADMINISTRATION  
ENGINEERING SECTOR  
SOMBAYKHA: HAA



**Project Name:** Construction of attached toilet at pack house, S/Dungkhag, Haa.

**Drawing Title:** F/V

**Scale:** NTS

**Drawn by:** Kirtiman Rai, AE

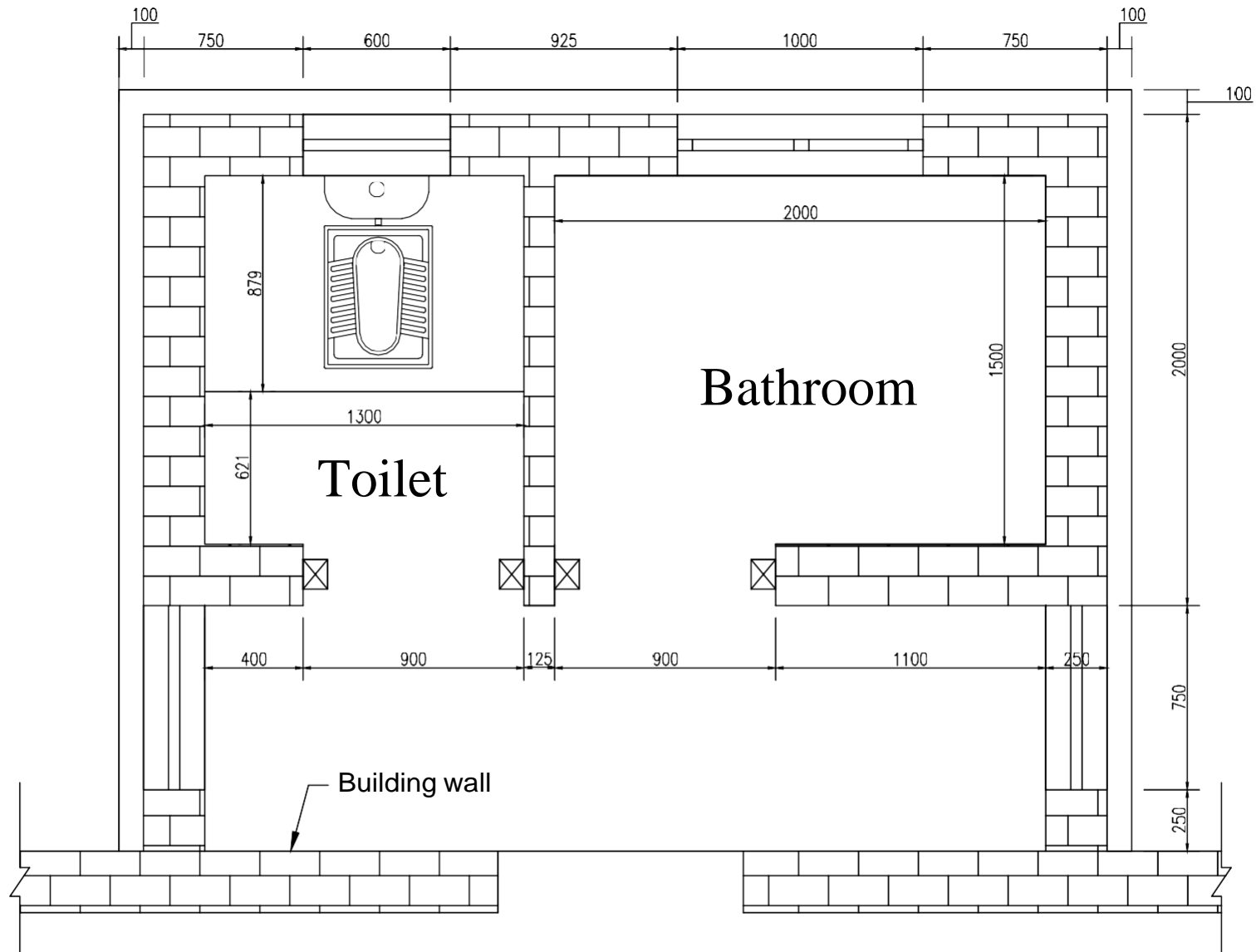
**Checked by:**

**Approved by:**

**Drawing No:**

*All dimensions are  
in mm unless  
otherwise specified*

**03**



ROYAL GOVERNMENT OF BHUTAN  
DUNGKHAG ADMINISTRATION  
ENGINEERING SECTOR  
SOMBAYKHA: HAA



**Project Name:** Construction of attached toilet at pack house, S/Dungkhag, Haa.

**Drawing Title:** Plan

**Scale:** NTS

**Drawn by:** Kirtiman Rai, AE

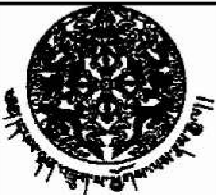
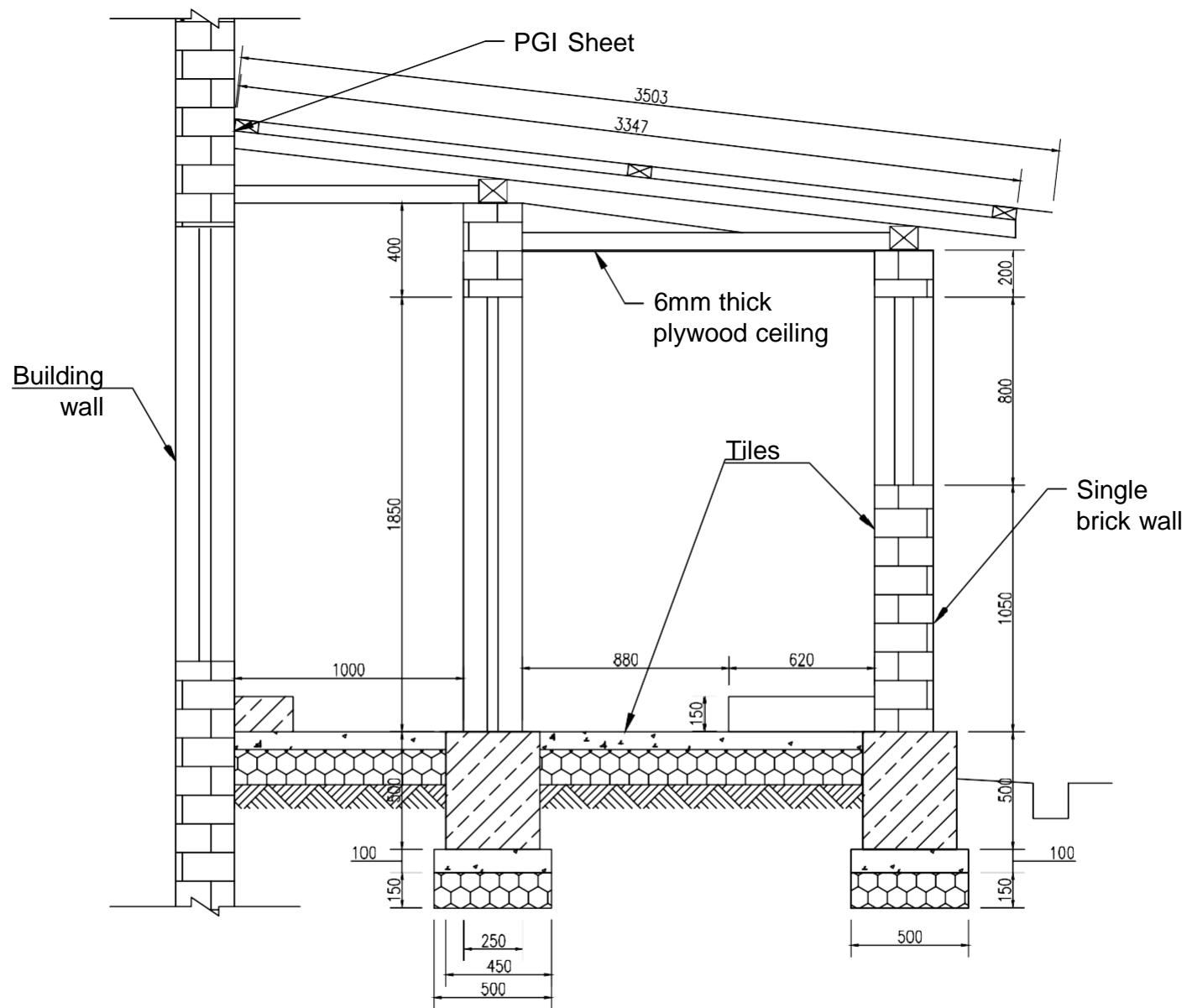
**Checked by:**

**Approved by:**

**Drawing No:**

*All dimensions are  
in mm unless  
otherwise specified*

**01**



ROYAL GOVERNMENT OF BHUTAN  
DUNGKHAG ADMINISTRATION  
ENGINEERING SECTOR  
SOMBAYKHA: HAA



**Project Name:** Construction of attached toilet at pack house, S/Dungkhag, Haa.

**Drawing Title:** Section

**Scale:** NTS

**Drawn by:** Kirtiman Rai, AE

**Checked by:**

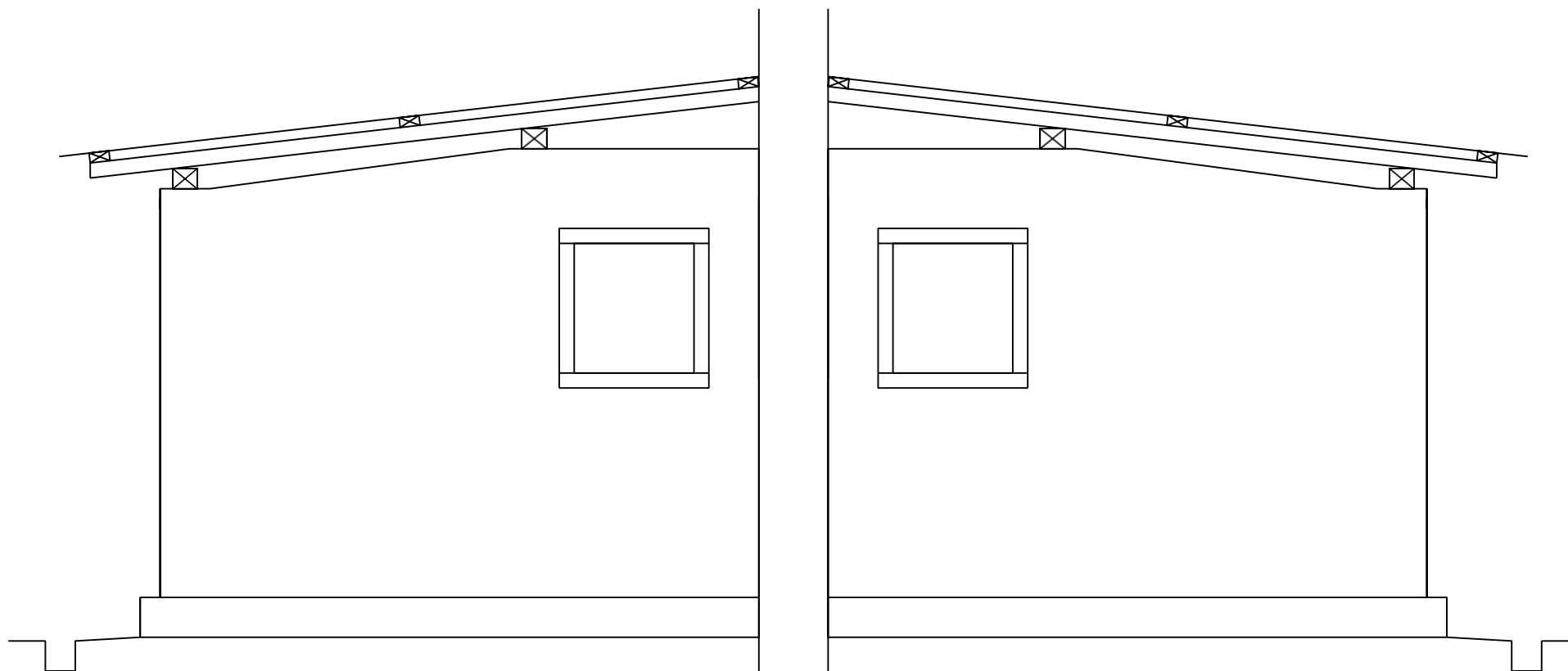
**Approved by:**

**Drawing No:**

*All dimensions are  
in mm unless  
otherwise specified*

**02**





R/S view

L/S view



ROYAL GOVERNMENT OF BHUTAN  
DUNGKHAG ADMINISTRATION  
ENGINEERING SECTOR  
SOMBAYKHA: HAA



**Project Name:** Construction of attached toilet at pack house, S/Dungkhag, Haa.

**Drawing Title:** S/V

**Scale:** NTS

**Drawn by:** Kirtiman Rai, AE

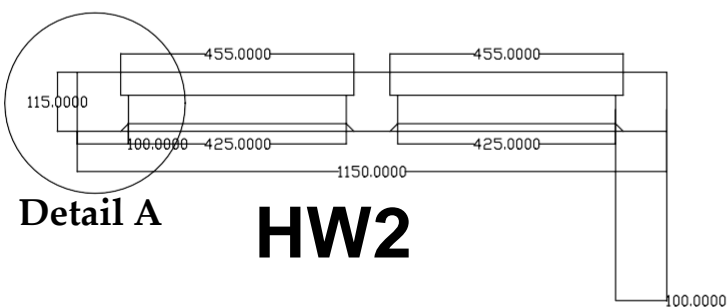
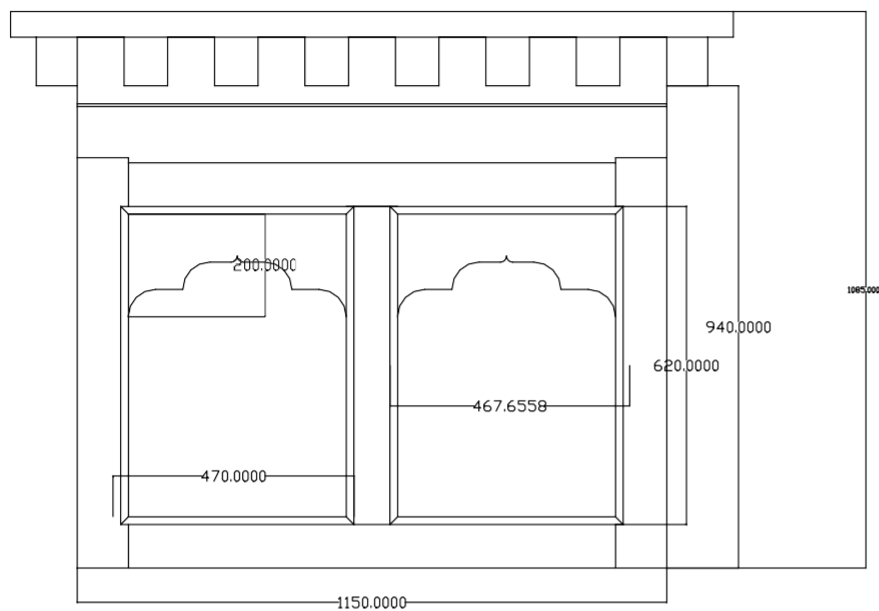
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**Approved by:**

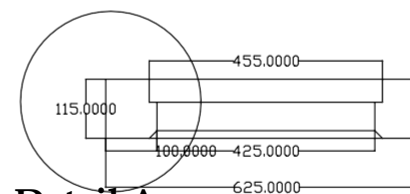
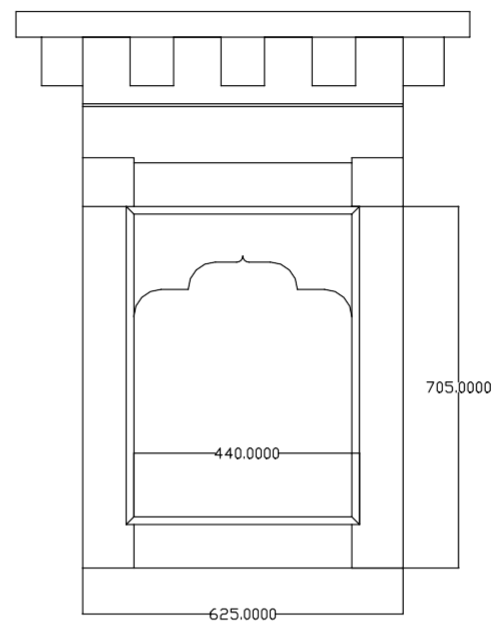
**Drawing No:**

*All dimensions are  
in mm unless  
otherwise specified*

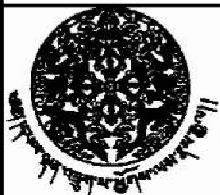
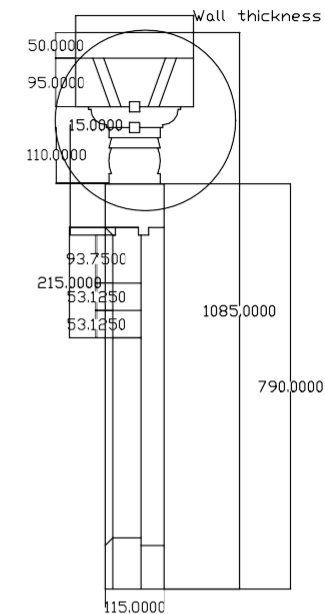
**04**



**HW2**



**HW1**



ROYAL GOVERNMENT OF BHUTAN  
DUNGKHAG ADMINISTRATION  
ENGINEERING SECTOR  
SOMBAYKHA: HAA



**Project Name:** Construction of attached toilet at pack house, S/Dungkhag, Haa.

**Drawing Title:** Window

**Scale:** NTS

**Drawn by:** Kirtiman Rai, AE

**Checked by:**

**Approved by:**

**Drawing No:**

*All dimensions are  
in mm unless  
otherwise specified*

**06**