Request for Bids

(One-Envelope Bidding Process)

Construction of S+G+3+J Storied Sanitary and Phytosanitary Service (SPS) Building Centre at Phuentsholing

RFB No: MOH/BFDA/WORKS3
Project: Accelerate Bhutan's Job Transformation through Renewable Natural Resource Value Chains (P506825)
Purchaser: Bhutan Food and Drug Authority, Ministry of Health
Country: Kingdom of Bhutan
Issued on: October 7, 2026

Specific Procurement Notice

Request for Bids
(One-Envelope Bidding Process)

Employer: Bhutan Food and Drug Authority (BFDA), Ministry of Health (MoH)

Project: Accelerate Bhutan's Job Transformation through Renewable Natural Resource Value Chains (P506825)

Contract title: Construction of S+G+3+J Storied Sanitary and Phytosanitary Service (SPS) Building Centre at Phuentsholing

Site: Phuentsholing, Chhukha

Country: Bhutan

Grant No.: IDA-E4690

RFB No: MoH/BFDA/WORKS3

Issued on: October 7, 2026

1. The Royal Government of Bhutan *intends to apply for* financing from the World Bank toward the cost of Accelerate Bhutan's Job Transformation through Renewable Natural Resource Value Chains (P506825) to be implemented by BFDA, MoH, and intends to apply part of the proceeds toward payments under the contracts for Construction of S+G+3+J Storied Sanitary and Phytosanitary Service (SPS) Building Centre.

2. The Accelerate Bhutan's Job Transformation through Renewable Natural Resource Value Chains to be implemented by BFDA, MoENR now invites sealed Bids from registered W3 Large national contractor as registered with Bhutan Construction and Transport Authority for the construction of S+G+3+J Storied Sanitary and Phytosanitary (SPS) Building Centre at Phuentsholing.

3. Bidders may Bid for one or several contracts, as further defined in the Bidding Document. Bidders wishing to offer discounts in case they are awarded more than one contract will be allowed to do so, provided those discounts are included in the Letter of Bid.

4. Bidding will be conducted through Request for Bids (RFB) following National market approach as specified in the World Bank's "Procurement Regulations for IPF Borrowers, Sixth Edition, February 2025 ("Procurement Regulations"), and is open to all eligible Bidders as defined in the Procurement Regulations.

5. Interested eligible Bidders may obtain further information from the address mentioned below and inspect the bidding document during office hours from 0900 to 1700 hours at the address given below.

6. The bidding document in English may be downloaded from MoAL website (www.moal.gov.bt) by interested eligible Bidders.

7. Bids must be delivered to the address below on or before November 4, 2026 at 13:00 Hours. Electronic bidding will not be permitted. Late Bids will be rejected. The envelope shall have both technical and financial bids. The bids shall be publicly opened in the presence of the Bidders' designated representatives and anyone who chooses to attend, at the address below on November 4, 2026 at 14:30 Hours.

8. All Bids must be accompanied by Bid Securing Declaration

9. The address(es) referred to above is:

   Project Director
   RNR Jobs, PPD, MoAL
   Street Address: Chhagchhen Lam, Thimphu, Bhutan
   City: Thimphu
   ZIP/Postal Code: 11001
   Country: Bhutan

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PART 1 – Bidding Procedures

Section I - Instructions to Bidders

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Section I - Instructions to Bidders

A. General

1. Scope of Bid

1.1 In connection with the Specific Procurement Notice – Request for Bids (RFB), specified in the **Bid Data Sheet (BDS)**, the Employer, as **specified in the BDS**, issues this bidding document for the provision of Works as specified in Section VII, Works' Requirements. The name, identification, and number of lots (contracts) of this RFB are **specified in the BDS.**

1.2 Throughout this bidding document:

- the term **"in writing"** means communicated in written form (e.g. by mail, e-mail, fax, including if **specified in the BDS**, distributed or received through electronic-procurement system used by the Employer) with proof of receipt;
- if the context so requires, **"singular"** means **"plural'** and vice versa;
- **"Day"** means calendar day, unless otherwise specified as a **"Business Day."** A Business Day is any day that is a working day of the Borrower. It excludes the Borrower's official public holidays;
- **"ES"** means environmental and social (including Sexual Exploitation and Abuse (SEA), and Sexual Harassment (SH));
- **"Sexual Exploitation and Abuse" "(SEA)"** means the following:

  "Sexual Exploitation" is defined as any actual or attempted abuse of position of vulnerability, differential power or trust, for sexual purposes, including, but not limited to, profiting monetarily, socially or politically from the sexual exploitation of another;

  "Sexual Abuse" is defined as the actual or threatened physical intrusion of a sexual nature, whether by force or under unequal or coercive conditions;

- **"Sexual Harassment" "(SH)"** is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature by the Contractor's Personnel with other Contractor's or Employer's Personnel;

- **"Contractor's Personnel"** is as defined in Sub- Clause 1 (ii) of the General Conditions of Contract; and
- **"Employer's personnel"** is as defined in GCC Sub-Clause 1 (nn) of the General Conditions of Contract.

A non-exhaustive list of (i) behaviors which constitute SEA and (ii) behaviors which constitute SH is attached to the Code of Conduct form in Section IV.

2. Source of Funds

2.1 The Borrower or Recipient (hereinafter called "Borrower") **specified in the BDS** has received or has applied for financing (hereinafter called "funds") from the International Bank for Reconstruction and Development or the International Development Association (hereinafter called "the Bank") in an amount **specified in the BDS**, toward the project **named in the BDS**. The Borrower intends to apply a portion of the funds to eligible payments under the contract(s) for which this bidding document are issued.

2.2 Payment by the Bank will be made only at the request of the Borrower and upon approval by the Bank, and will be subject, in all respects, to the terms and conditions of the Loan (or other financing) Agreement. The Loan (or other financing) Agreement prohibits a withdrawal from the Loan account for the purpose of any payment to persons or entities, or for any import of goods, equipment, plant, or materials, if such payment or import is prohibited by a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. No party other than the Borrower shall derive any rights from the Loan (or other financing) Agreement or have any claim to the proceeds of the Loan (or other financing).

3. Fraud and Corruption

3.1 The 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 VI.

3.2 In further pursuance of this policy, Bidders shall permit and shall cause their agents (where declared or not), subcontractors, subconsultants, service providers, suppliers, and 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.

4. Eligible Bidders

4.1 A Bidder may be a firm that is a private entity, or a state-owned enterprise or institution —subject to ITB 4.6—or any combination of them in the form of a joint venture (JV), under an existing agreement, or with the intent to enter into such an agreement supported by a letter of intent. In the case of a joint venture, all members shall be jointly and severally liable for the execution of the entire Contract in accordance with the Contract terms. The JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the Bidding process and, in the event the JV is awarded the Contract, during contract execution. Unless **specified in the BDS**, there is no limit on the number of members in a JV.

4.2 A Bidder shall not have a conflict of interest. All Bidders 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:

(a) directly or indirectly controls, is controlled by or is under common control with another Bidder; or

(b) receives or has received any direct or indirect subsidy from another Bidder; or

(c) has the same legal representative as another Bidder; or

(d) 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

(e) or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the works that are the subject of the Bid; or

(f) or any of its affiliates has been hired (or is proposed to be hired) by the Employer or Borrower as Project Manager for the Contract implementation;

(g) would be providing goods, works, or non-consulting services resulting from or directly related to consulting services for the preparation or implementation of the project **specified in the BDS** 2.1 that it provided or were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm; or

(h) has a close business or family relationship with a professional staff of the Borrower (or of the project

implementing agency, or of a recipient of a part of the loan) who: (i) are directly or indirectly involved in the preparation of the bidding document or specifications of the contract, and/or the Bid evaluation process of such contract; or (ii) would be involved in the implementation or supervision of such contract unless the conflict stemming from such relationship has been resolved in a manner acceptable to the Bank throughout the procurement process and execution of the contract.

4.3 A firm that is a Bidder (either individually or as a JV member) shall not participate in more than one Bid, except for permitted alternative Bids. This includes participation as a subcontractor in other Bids. Such participation shall result in the disqualification of all Bids in which the firm is involved. A firm that is not a Bidder or a JV member may participate as a subcontractor in more than one Bid.

4.4 A Bidder may have the nationality of any country, subject to the restrictions pursuant to ITB 4.8. A Bidder shall be deemed to have the nationality of a country if the Bidder is constituted, incorporated or registered in and operates in conformity with the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be. This criterion also shall apply to the determination of the nationality of proposed subcontractors or subconsultants for any part of the Contract including related Services.

4.5 A Bidder that has been sanctioned by the Bank, pursuant to the Bank's Anti-Corruption Guidelines, in accordance with its prevailing sanctions policies and procedures as set forth in the WBG's Sanctions Framework as described in Section VI paragraph 2.2 d. shall be ineligible to be prequalified for, initially selected for, bid for, propose for, or be awarded a Bank-financed contract or benefit from a Bank-financed contract, financially or otherwise, during such period of time as the Bank shall have determined. The list of debarred firms and individuals is available at the electronic address specified in the BDS.

4.6 Bidders that are state-owned enterprises or institutions in the Employer's Country may be eligible to compete and be awarded a Contract(s) only if they can establish, in a manner acceptable to the Bank, that they (i) are legally and financially

autonomous (ii) operate under commercial law, and (iii) are not under supervision of the Employer.

4.7 A Bidder shall not be under suspension from Bidding by the Employer as the result of the operation of a Bid–Securing or Proposal-Securing Declaration.

4.8 Firms and individuals may be ineligible if so indicated in Section V and (a) as a matter of law or official regulations, the Borrower's country prohibits commercial relations with that country, provided that the Bank is satisfied that such exclusion does not preclude effective competition for the supply of goods or the contracting of works or services required; or (b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower's country prohibits any import of goods or contracting of works or services from that country, or any payments to any country, person, or entity in that country. When the Works are implemented across jurisdictional boundaries (and more than one country is a Borrower, and is involved in the procurement), then exclusion of a firm or individual on the basis of ITB 4.8 (a) above by any country may be applied to that procurement across other countries involved, if the Bank and the Borrowers involved in the procurement agree.

4.9 A Bidder shall provide such documentary evidence of eligibility satisfactory to the Employer, as the Employer shall reasonably request.

4.10 A firm that is under a sanction of debarment by the Borrower from being awarded a contract is eligible to participate in this procurement, unless the Bank, at the Borrower's request, is satisfied that the debarment;

- relates to fraud or corruption; and
- followed a judicial or administrative proceeding that afforded the firm adequate due process.

5. Eligible Materials, Equipment and Services

2.1 The materials, equipment and services to be supplied under the Contract and financed by the Bank may have their origin in any country subject to the restrictions specified in Section V, Eligible Countries, and all expenditures under the Contract will not contravene such restrictions. At the Employer's request, Bidders may be required to provide evidence of the origin of materials, equipment and services.

B. Contents of Bidding Document

6. Sections of Bidding Document

6.1 The bidding document consist of Parts 1, 2, and 3, which include all the sections specified below, and which should be read in conjunction with any Addenda issued in accordance with ITB 8.

PART 1 Bidding Procedures

(a) Section I - Instructions to Bidders (ITB)

(b) Section II - Bid Data Sheet (BDS)

(c) Section III - Evaluation and Qualification Criteria

(d) Section IV - Bidding Forms

(e) Section V - Eligible Countries

(f) Section VI - Fraud and Corruption

PART 2 Works' Requirements

(g) Section VII – Works' Requirements

PART 3 Conditions of Contract and Contract Forms

(h) Section VIII - General Conditions of Contract

(i) Section IX - Particular Conditions of Contract

(j) Section X - Contract Forms

6.2 The Specific Procurement Notice - Request for Bids (RFB) issued by the Employer is not part of this bidding document.

6.3 Unless obtained directly from the Employer, the Employer is not responsible for the completeness of the bidding document, responses to requests for clarification, the minutes of the pre-Bid meeting (if any), or Addenda to the bidding document in accordance with ITB 8. In case of any contradiction, documents obtained directly from the Employer shall prevail.

6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding document and to furnish with its Bid all information and documentation as is required by the bidding document.

7. Clarification of Bidding

7.1 A Bidder requiring any clarification of the bidding document shall contact the Employer in writing at the

Document, Site Visit, Pre-Bid Meeting

Employer's address **specified in the BDS** or raise its inquiries during the pre-Bid meeting if provided for in accordance with ITB 7.4. The Employer will respond in writing to any request for clarification, provided that such request is received prior to the deadline for submission of Bids within a period **specified in the BDS**. The Employer shall forward copies of its response to all Bidders who have acquired the bidding document in accordance with ITB 6.3, including a description of the inquiry but without identifying its source. If so **specified in the BDS**, the Employer shall also promptly publish its response at the web page **identified in the BDS**. Should the clarification result in changes to the essential elements of the bidding document, the Employer shall amend the bidding document following the procedure under ITB 8 and ITB 22.2.

7.2 The Bidder is advised to visit and examine the Site of works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Bid and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the Bidder's own expense.

7.3 The Bidder and any of its personnel or agents will be granted permission by the Employer to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the Bidder, its personnel, and agents will release and indemnify the Employer and its personnel and agents from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.

7.4 If so **specified in the BDS**, the Bidder's designated representative is invited to attend a pre-Bid meeting and/or a Site of works visit. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.

7.5 The Bidder is requested, to submit any questions in writing, to reach the Employer not later than one week before the meeting.

7.6 Minutes of the pre-Bid meeting, if applicable, including the text of the questions asked by Bidders, without identifying the source, and the responses given, together with any

responses prepared after the meeting, will be transmitted promptly to all Bidders who have acquired the bidding document in accordance with ITB 6.3. If so **specified in the BDS,** the Employer shall also promptly publish the Minutes of the pre-Bid meeting at the web page **identified in the BDS**. Any modification to the bidding document that may become necessary as a result of the pre-Bid meeting shall be made by the Employer exclusively through the issue of an addendum pursuant to ITB 8 and not through the minutes of the pre-Bid meeting. Nonattendance at the pre-Bid meeting will not be a cause for disqualification of a Bidder.

8. Amendment of Bidding Document

8.1 At any time prior to the deadline for submission of Bids, the Employer may amend the bidding document by issuing addenda.

8.2 Any addendum issued shall be part of the bidding document and shall be communicated in writing to all who have obtained the bidding document from the Employer in accordance with ITB 6.3. The Employer shall also promptly publish the addendum on the Employer's web page in accordance with ITB 7.1.

8.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their Bids, the Employer may, at its discretion, extend the deadline for the submission of Bids, pursuant to ITB 22.2.

C. Preparation of Bids

9. Cost of Bidding

9.1 The Bidder shall bear all costs associated with the preparation and submission of its Bid, 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 The Bid, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the Employer, shall be written in the language **specified in the BDS**. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language **specified in the BDS**, in which case, for purposes of interpretation of the Bid, such translation shall govern.

11. Documents Comprising the Bid

11.1 The Bid shall comprise two Parts, namely the Technical Part and the Financial Part. These two Parts shall be submitted simultaneously in two separate sealed envelopes (two-envelope Bidding process). One envelope shall contain only information relating to the Technical Part and the other, only information relating to the Financial Part. These two envelopes shall be enclosed in a separate sealed outer envelope marked "ORIGINAL BID".

11.2 The **Technical Part** shall contain the following:

A. **Letter of Bid – Technical Part,** prepared in accordance with ITB 12;

B. **Bid Security** or **Bid-Securing Declaration**, in accordance with ITB 19.1;

C. **Alternative Bid - Technical Part**: if permissible in accordance with ITB 13, the Technical Part of any Alternative Bid;

D. **Authorization**: written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 20.3;

E. **Bidder's Eligibility:** documentary evidence in accordance with ITB 17.1 establishing the Bidder's eligibility to Bid;

F. **Qualifications:** documentary evidence in accordance with ITB 17.2 establishing the Bidder's qualifications to perform the Contract if its Bid is accepted;

G. **Conformity**: a technical proposal in accordance with ITB 16; and

H. any other document **required in the BDS**.

11.3 The **Financial Part** shall contain the following:

(a) **Letter of Bid – Financial Part:** prepared in accordance with ITB 12 and ITB 14;

(b) **Bill of Quantities or Activity Schedule** completed in accordance with ITB 12 and ITB 14 as specified **in the BDS;**

(c) **Alternative Bid - Financial Part:** if permissible in accordance with ITB 13, the Financial Part of any Alternative Bid; and

(d) any other document required **in the BDS.**

11.4 The Technical Part shall not include any information related to the Bid price. Where material financial information related to the Bid price is contained in the Technical Part the Bid shall be declared non-responsive.

11.5 In addition to the requirements under ITB 11.2, Bids submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful Bid shall be signed by all members and submitted with the Bid, together with a copy of the proposed Agreement.

11.6 The Bidder shall furnish in the Letter of Bid – Financial Part information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this Bid.

12. Letters of Bid and Schedules

12.1 The Letter of Bid – Technical Part, Letter of Bid – Financial Part and Priced Activity Schedules or Bill of Quantities shall be prepared using the relevant forms furnished in Section IV, Bidding Forms. The forms must be completed without any alterations to the text, and no substitutes shall be accepted except as provided under ITB 20.3. All blank spaces shall be filled in with the information requested.

13. Alternative Bids

13.1 Unless otherwise **specified in the BDS**, alternative Bids shall not be considered.

13.2 When alternative times for completion are explicitly invited, a statement to that effect will be **included in the BDS**, and the method of evaluating different alternative times for completion will be described in Section III, Evaluation and Qualification Criteria.

13.3 Except as provided under ITB 13.4 below, Bidders wishing to offer technical alternatives to the requirements of the bidding document must first price the Employer's design as described in the bidding document and shall further provide all information necessary for a complete evaluation of the alternative by the Employer, including drawings, design calculations, technical specifications, breakdown of prices, and proposed construction methodology and other relevant details. Only the technical alternatives, if any, of the Bidder with the Most

Advantageous Bid conforming to the basic technical requirements shall be considered by the Employer.

13.4 When **specified in the BDS**, Bidders are permitted to submit alternative technical solutions for specified parts of the Works. Such parts will be **identified in the BDS** and described in Section VII, Works' Requirements. The method for their evaluation will be stipulated in Section III, Evaluation and Qualification Criteria.

14. Bid Prices and Discounts

14.1 The prices and discounts quoted by the Bidder in the Letter of Bid – Financial Part and in the Priced Activity Schedule or Bill of Quantities shall conform to the requirements specified below.

14.2 The Bidder shall submit a Bid for the whole of the Works described in ITB 1.1 by filling in prices for all items of the Works, as identified in Section IV, Bidding Forms. In case of admeasurement contracts, the Bidder shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items against which no rate or price is entered by the Bidder will not be paid for by the Employer when executed and shall be deemed covered by the rates for other items and prices in the Bill of Quantities.

14.3 The price to be quoted in the Letter of Bid – Financial Part, in accordance with ITB 12.1, shall be the total price of the Bid, excluding any discounts offered.

14.4 The Bidder shall quote any discounts and indicate the methodology for their application in the Letter of Bid - Financial Part, in accordance with ITB 12.1.

14.5 Unless otherwise **provided in the BDS,** and the Conditions of Contract, th**e** prices quoted by the Bidder shall be fixed. If the prices quoted by the Bidder are subject to adjustment during the performance of the Contract in accordance with the provisions of the Conditions of Contract, the Bidder shall furnish the indices and weightings for the price adjustment formulae in the Schedule of Adjustment Data in Section IV- Bidding Forms and the Employer may require the Bidder to justify its proposed indices and weightings.

14.6 If so specified in ITB 1.1, Bids are invited for individual lots (contracts) or for any combination of lots (packages). Bidders wishing to offer discounts for the award of more than one Contract shall specify in their Bid the price

reductions applicable to each package, or alternatively, to individual Contracts within the package. Discounts shall be submitted in accordance with ITB 14.4, provided the Bids for all lots (contracts) are opened at the same time.

14.7 All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, as of the date 28 days prior to the deadline for submission of Bids, shall be included in the rates and prices[1] and the total Bid price submitted by the Bidder.

15. Currencies of Bid and Payment

15.1 The currency(ies) of the Bid and the currency(ies) of payments shall be the same and shall be as **specified in the BDS.**

15.2 Bidders may be required by the Employer to justify, to the Employer's satisfaction, their local and foreign currency requirements, and to substantiate that the amounts included in the unit rates and prices and shown in the Schedule of Adjustment Data are reasonable[2], in which case a detailed breakdown of the foreign currency requirements shall be provided by Bidders.

16. Documents Comprising the Technical Proposal

16.1 The Bidder shall furnish a technical proposal in the Technical Part of the Bid including a statement of work methods, equipment, personnel, schedule and any other information as stipulated in Section IV, Bidding Forms, in sufficient detail to demonstrate the adequacy of the Bidders' proposal to meet the work's requirements and the completion time.

17. Documents Establishing the Eligibility and Qualifications of the Bidder

17.1 To establish Bidder's eligibility in accordance with ITB 4, Bidders shall complete the Letter of Bid, – Technical Part, included in Section IV, Bidding Forms.

17.2 In accordance with Section III, Evaluation and Qualification Criteria, to establish its qualifications to perform the Contract, the Bidder shall provide the information requested in the corresponding information sheets included in Section IV, Bidding Forms.

17.3 If a margin of preference applies as specified in accordance with ITB 38.1, domestic Bidders, individually or in joint ventures, applying for eligibility for domestic preference

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[1] In lump-sum contracts, delete "rates and prices and the."

[2] For lump-sum contracts, delete "unit rates and prices and shown in the Schedule of Adjustment Data are reasonable" and replace with "Lump-sum."

shall supply all information required to satisfy the criteria for eligibility specified in accordance with ITB 38.1.

18. Period of Validity of Bids

18.1 Bids shall remain valid until the date specified **in the BDS** or any extended date if amended by the Employer in accordance with ITB 8. A Bid that is not valid until the date specified **in the BDS,** or any extended date if amended by the Employer in accordance with ITB 8, shall be rejected by the Employer as nonresponsive.

18.2 In exceptional circumstances, prior to the date of expiry of the Bid validity, the Employer may request Bidders to extend the period of validity of their Bids. The request and the responses shall be made in writing. If a Bid Security is requested in accordance with ITB 19, it shall also be extended for twenty-eight (28) days beyond the extended date for Bid validity. A Bidder may refuse the request without forfeiting its Bid Security. A Bidder granting the request shall not be required or permitted to modify its Bid, except as provided in ITB 18.3.

18.3 If the award is delayed by a period exceeding fifty-six (56) days beyond the date of expiry of the Bid validity specified in accordance with ITB 18.1, the Contract price shall be determined as follows:

(a) in **the** case of fixed price contracts, the Contract price shall be the Bid price adjusted by the factor **specified in the BDS;**

(b) in the case of adjustable price contracts, no adjustment shall be made; or

(c) in any case, Bid evaluation shall be based on the Bid price without taking into consideration the applicable correction from those indicated above.

19. Bid Security

19.1 The Bidder shall furnish as part of its Technical Part of its Bid, either a Bid-Securing Declaration or a Bid Security as **specified in the BDS**, in original form and, in the case of a Bid security, in the amount and currency **specified in the BDS**.

19.2 A Bid-Securing Declaration shall use the form included in Section IV, Bidding Forms.

19.3 If a Bid Security is specified pursuant to ITB 19.1, the Bid Security shall be a demand guarantee, and in any of the following forms at the Bidder's option:

(a) an unconditional guarantee issued by a bank or non-bank financial institution (such as an insurance, bonding or surety company);

(b) an irrevocable letter of credit;

(c) a cashier's or certified check; or

(d) another security **specified in the BDS,**

from a reputable source, and an eligible country. If an unconditional guarantee is issued by a non-bank financial institution located outside the Employer's Country, the issuing non-bank financial institution shall have a correspondent financial institution located in the Employer's Country to make it enforceable unless the Employer has agreed in writing, prior to Bid submission, that a correspondent financial institution is not required. In the case of a bank guarantee, the Bid Security shall be submitted either using the Bid Security Form included in Section IV, Bidding Forms, or in another substantially similar format approved by the Employer prior to Bid submission. The Bid Security shall be valid for twenty-eight (28) days beyond the original date of expiry of the Bid validity, or beyond any extended date if requested under ITB 18.2.

19.4 If a Bid Security or Bid-Securing Declaration is specified pursuant to ITB 19.1, any Bid not accompanied by a substantially responsive Bid Security or Bid-Securing Declaration shall be rejected by the Employer as non-responsive.

19.5 If a Bid Security is specified pursuant to ITB 19.1, the Bid Security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's signing the Contract and furnishing the Performance Security and if required in the BDS, the Environmental and Social (ES) Performance Security pursuant to ITB 50.

19.6 The Bid Security of the successful Bidder shall be returned as promptly as possible once the successful Bidder has signed the Contract and furnished the required Performance Security and if required in the BDS, the Environmental and Social (ES) Performance Security.

19.7 The Bid Security may be forfeited:

(a) if a Bidder withdraws its Bid prior to the expiry date of the Bid validity specified by the Bidder on the Letter of Bid – Technical Part and repeated in the Letter of Bid – Financial Part or any extension thereto provided by the Bidder; or

(b) if the successful Bidder fails to:

a. sign the Contract in accordance with ITB 49; or
b. furnish a Performance Security and if required in the BDS, the Environmental and Social (ES) Performance Security in accordance with ITB 50.

19.8 The Bid Security or the Bid-Securing Declaration of a JV shall be in the name of the JV that submits the Bid. If the JV has not been constituted into a legally enforceable JV, at the time of Bidding, the Bid Security or the Bid-Securing Declaration shall be in the names of all future members as named in the letter of intent mentioned in ITB 4.1 and ITB 11.5.

19.9 If a Bid Security is not required in the BDS, pursuant to ITB 19.1, and:

(a) if a Bidder withdraws its Bid prior to the expiry date of the Bid validity specified by the Bidder on the Letters of Bid or any extended date provided by the Bidder; or

(b) if the successful Bidder fails to:

- sign the Contract in accordance with ITB 49; or
- furnish a Performance Security and if required in the BDS, the Environmental, and Social (ES) Performance Security in accordance with ITB 50;

the Borrower may, if provided for **in the BDS**, declare the Bidder ineligible to be awarded a contract by the Employer for a period of time as **stated in the BDS**.

20. Format and Signing of Bid

20.1 The Bidder shall prepare the Bid, in accordance with this Instruction, ITB 11 and ITB 21.

20.2 Bidders shall mark as "CONFIDENTIAL" information in their Bids which is confidential to their business. This may include proprietary information, trade secrets or commercial or financially sensitive information.

20.3 The original and all copies of the Bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as

specified in the BDS and shall be attached to the Bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Bid where entries or amendments have been made shall be signed or initialed by the person signing the Bid.

20.4 In case the Bidder is a JV, the Bid shall be signed by an authorized representative of the JV on behalf of the JV, and so as to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives.

20.5 Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Bid.

D. Submission of Bids

21. Sealing and Marking of Bids

21.1 The Bidder shall deliver the Bid in two separate, sealed envelopes (the Technical Part and the Financial Part.) These two envelopes shall be enclosed in a separate sealed outer envelope marked "ORIGINAL BID".

21.2 In addition, the Bidder shall submit copies of the Bid in the number **specified in the BDS**. Copies of the Technical Part shall be placed in a separate sealed envelope marked "COPIES: TECHNICAL PART". Copies of the Financial Part shall be placed in a separate sealed envelope marked "COPIES: FINANCIAL PART". The Bidder shall place both of these envelopes in a separate, sealed outer envelope marked "BID COPIES". In the event of any discrepancy between the original and the copies, the original shall prevail. If alternative Bids are permitted in accordance with ITB 13, the alternative Bids shall be submitted as follows: the original of the alternative Bid Technical Part shall be placed in a sealed envelope marked "ALTERNATIVE BID – TECHNICAL PART" and the Financial Part shall be placed in a sealed envelope marked "ALTERNATIVE BID – FINANCIAL PART" and these two separate sealed envelopes then enclosed within a sealed outer envelope marked "ALTERNATIVE BID – ORIGINAL", the copies of the alternative Bid will be placed in separate sealed envelopes marked "ALTERNATIVE BID – COPIES OF TECHNICAL PART", and "ALTERNATIVE BID – COPIES OF

FINANCIAL PART" and enclosed in a separate sealed outer envelope marked "ALTERNATIVE BID - COPIES"

21.3 The envelopes marked "ORIGINAL BID" and "BID COPIES" (and, if appropriate, a third envelope marked "ALTERNATIVE BID") shall be enclosed in a separate sealed outer envelope for submission to the Employer.

21.4 All inner and outer envelopes, shall:

(a) bear the name and address of the Bidder;

(b) be addressed to the Employer in accordance with ITB 22.1;

(c) bear the specific identification of this Bidding process indicated in ITB 1.1; and

(d) bear a warning not to open before the time and date for Bid opening.

21.5 If all envelopes are not sealed and marked as required, the Employer will assume no responsibility for the misplacement or premature opening of the Bid.

22. Deadline for Submission of Bids

22.1 Bids must be received by the Employer at the address and no later than the date and time **specified in the BDS**. When so **specified in the BDS**, Bidders shall have the option of submitting their Bids electronically. Bidders submitting Bids electronically shall follow the electronic Bid submission procedures **specified in the BDS.**

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 8, in which case all rights and obligations of the Employer and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.

23. Late Bids

23.1 The Employer shall not consider any Bid that arrives after the deadline for submission of Bids, in accordance with ITB 22. Any Bid received by the Employer after the deadline for submission of Bids shall be declared late, rejected, and returned unopened to the Bidder.

24. Withdrawal, Substitution, and Modification of Bids

24.1 A Bidder may withdraw, substitute, or modify its Bid after it has been submitted by sending a written notice, duly signed by an authorized representative, and shall include a copy of the authorization in accordance with ITB 20.3, (except that withdrawal notices do not require copies). The

corresponding substitution or modification of the Bid must accompany the respective written notice. All notices must be:

(a) prepared and submitted in accordance with ITB 20 and ITB 21 (except that withdrawal notices do not require copies), and in addition, the respective envelopes shall be clearly marked "WITHDRAWAL," "SUBSTITUTION," "MODIFICATION;" and

(b) received by the Employer prior to the deadline prescribed for submission of Bids, in accordance with ITB 22.

24.2 Bids requested to be withdrawn in accordance with ITB 24.1 shall be returned unopened to the Bidders.

24.3 No Bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of Bids and the date of expiry of the Bid validity specified by the Bidder on the Letter of Bid or any extended date thereof.

E. Public Opening of Technical Parts of Bids

25. Public Opening of Technical Parts of Bids

25.1 Except in the cases specified in ITB 23 and ITB 24.2, the Employer shall publicly open and read out all Bids received by the deadline, at the date, time and place **specified in the BDS**, in the presence of Bidders` designated representatives and anyone who chooses to attend. All Bidders, or their representatives and any interested party may attend a public opening. Any specific electronic Bid opening procedures required if electronic bidding is permitted in accordance with ITB 22.1, shall be as **specified in the BDS**.

25.2 First, the written notice of withdrawal in the envelopes marked "WITHDRAWAL" shall be opened and read out and the envelope with the corresponding Bid shall not be opened, but returned to the Bidder. No Bid withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at Bid opening.

25.3 Next, envelopes marked "Substitution" shall be opened and read out and exchanged with the corresponding Bid being substituted, and the substituted Bid shall not be opened, but returned to the Bidder. No Bid substitution shall be permitted unless the corresponding substitution

notice contains a valid authorization to request the substitution and is read out at Bid opening.

25.4 Next, envelopes marked "MODIFICATION" shall be opened and read out with the corresponding Bid. No Bid modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read out at Bid opening.

25.5 Next, all other envelopes marked "TECHNICAL PART" shall be opened one at a time. All envelopes marked "SECOND ENVELOPE: FINANCIAL PART" shall remain sealed, and kept by the Employer in safe custody until they are opened, at a later public opening, following the evaluation of the Technical Part parts of the Bids. On opening the envelopes marked "TECHNICAL PART" the Employer shall read out: the name of the Bidder, the presence or the absence of a Bid Security, or Bid-Securing Declaration, if required, and whether there is a modification; and Alternative Bid - Technical Part; and any other details as the Employer may consider appropriate.

25.6 Only Technical Parts of Bids and Alternative Bid - Technical Parts that are read out at Bid opening shall be considered further for evaluation. The Letter of Bid-Technical Part and the separate sealed envelope marked "SECOND ENVELOPE: FINANCIAL PART" are to be initialed by representatives of the Employer attending Bid opening in the manner **specified in the BDS**.

25.7 At the Bid opening the Employer shall neither discuss the merits of any Bid nor reject any Bid (except for late Bids, in accordance with ITB 23.1).

25.8 The Employer shall prepare a record of the Technical Parts of Bid opening that shall include, as a minimum:

(a) the name of the Bidder and whether there is a withdrawal, substitution, or modification;

(b) the receipt of envelopes marked "SECOND ENVELOPE: FINANCIAL PART";

(c) the presence or absence of a Bid Security or Bid-Securing Declaration, if one was required; and

(d) if applicable, any Alternative Bid – Technical Part.

25.9 The Bidders' representatives who are present shall be requested to sign the record. The omission of a Bidder's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Bidders.

F. Evaluation of Bids – General Provisions

26. Confidentiality

26.1 Information relating to the evaluation of Bids and recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with the Bidding process until information on Intention to Award the Contract is transmitted to all Bidders in accordance with ITB 44.

26.2 Any effort by a Bidder to influence the Employer in the evaluation of the Bids or Contract award decisions may result in the rejection of its Bid.

26.3 Notwithstanding ITB 26.2, from the time of Bid opening to the time of Contract award, if a Bidder wishes to contact the Employer on any matter related to the Bidding process, it shall do so in writing.

27. Clarification of Bids

27.1 To assist in the examination, evaluation, and comparison of the Bids, and qualification of the Bidders, the Employer may, at its discretion, ask any Bidder for a clarification of its Bid given a reasonable time for a response. Any clarification submitted by a Bidder that is not in response to a request by the Employer shall not be considered. The Employer's request for clarification and the response shall be in writing. No change, including any voluntary increase or decrease in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Bids, in accordance with ITB 36.

27.2 If a Bidder does not provide clarifications of its Bid by the date and time set in the Employer's request for clarification, its Bid may be rejected.

28. Deviations, Reservations, and Omissions

28.1 During the evaluation of Bids, the following definitions apply:

(a) "Deviation" is a departure from the requirements specified in the bidding document;

(b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the bidding document; and

(c) "Omission" is the failure to submit part or all of the information or documentation required in the bidding document.

29. Nonmaterial Nonconformities

29.1 Provided that a Bid is substantially responsive, the Employer may waive any nonconformities in the Bid.

29.2 Provided that a Bid is substantially responsive, the Employer may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities in the Bid related to documentation requirements. Requesting information or documentation on such nonconformities shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.

29.3 Provided that a Bid is substantially responsive pursuant to ITB 31, the Employer shall rectify quantifiable nonmaterial nonconformities related to the Bid price. To this effect, the Bid Price shall be adjusted, for comparison purposes only to reflect the price of a missing or non-conforming item or component, by adding the average price of the item or component quoted by substantially responsive Bidders. If the price of the item or component cannot be derived from the price of other substantially responsive Bids, the Employer shall use its best estimate.

G. Evaluation of Technical Parts of Bids

30. Evaluation of Technical Parts

30.1 In evaluating the Technical Parts of each Bid, the Employer shall use the criteria and methodologies listed in this ITB and Section III, Evaluation and Qualification Criteria. No other evaluation criteria or methodologies shall be permitted.

31. Determination of Responsiveness

31.1 The Employer's determination of a Bid's responsiveness is to be based on the contents of the Bid itself, as defined in ITB 11.

31.2 A substantially responsive Bid is one that meets the requirements of the bidding document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that:

(a) if accepted, would:

(i) affect in any substantial way the scope, quality, or performance of the Works specified in the Contract; or

(ii) limit in any substantial way, inconsistent with the bidding document, the Employer's rights or the Bidder's obligations under the proposed Contract; or

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

31.3 The Employer shall examine the technical aspects of the Bid submitted in accordance with ITB 16, in particular, to confirm that all requirements of Section VII, Works' Requirements have been met without any material deviation, reservation or omission.

31.4 If a Bid is not substantially responsive to the requirements of the bidding document, it shall be rejected by the Employer and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.

32. Qualification of the Bidder

32.1 The Employer shall determine to its satisfaction whether the eligible Bidders that have submitted substantially responsive Bid - Technical Parts meet the qualifying criteria specified in Section III, Evaluation and Qualification Criteria.

32.2 The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB 17. The determination shall not take into consideration the

qualifications of other firms such as the Bidder's subsidiaries, parent entities, affiliates, subcontractors (other than Specialized Subcontractors if permitted in the bidding document), or any other firm different from the Bidder.

32.3 If a Bidder does not meet the qualifying criteria specified in Section III, Evaluation and Qualification Criteria, its Bid shall be rejected by the Employer and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.

32.4 Only Bids that are both substantially responsive to the bidding document, and meet all Qualification Criteria shall have their envelopes marked "SECOND ENVELOPE: FINANCIAL PART" opened at the second public opening.

33. Subcontractors

33.1 Unless otherwise stated **in the BDS**, the Employer does not intend to execute any specific elements of the Works by subcontractors selected in advance by the Employer.

33.2 The subcontractor's qualifications shall not be used by the Bidder to qualify for the Works unless their specialized parts of the Works were previously designated by the Employer **in the BDS** as can be met by subcontractors referred to hereafter as 'Specialized Subcontractors', in which case, the qualifications of the Specialized Subcontractors proposed by the Bidder may be added to the qualifications.

33.3 Bidders may propose subcontracting up to the percentage of total value of contracts or the volume of works as **specified in the BDS.** Subcontractors proposed by the Bidder shall be fully qualified for their parts of the Works.

H. Public Opening of Financial Parts of Bids

34. Public Opening of Financial Parts

34.1 Following the completion of the evaluation of the Technical Parts of the Bids, and the Bank has issued its no objection (if applicable), the Employer shall notify in writing those Bidders whose Bids were considered non-responsive to the bidding document or failed to meet the Qualification Criteria, advising them of the following information:

(a) the grounds on which their Technical Part of Bid failed to meet the requirements of the bidding document;

(b) their envelopes marked "SECOND ENVELOPE: FINANCIAL PART" will be returned to them unopened after the completion of the selection process and the signing of the Contract; and

(c) notify them of the date, time and location of the public opening of the envelopes marked "SECOND ENVELOPE: FINANCIAL PART".

34.2 The Employer shall, simultaneously, notify in writing those Bidders whose Technical Part have been evaluated as substantially responsive to the bidding document and met all Qualifying Criteria, advising them of the following information:

(a) their Bid has been evaluated as substantially responsive to the bidding document and met the Qualification Criteria;

(b) their envelope marked "SECOND ENVELOPE: FINANCIAL PART" will be opened at the public opening of the Financial Parts; and

(c) notify them of the date, time and location of the second public opening of the envelopes marked "SECOND ENVELOPE: FINANCIAL PART" **as specified in the BDS.**

34.3 The opening date should allow Bidders sufficient time to make arrangements for attending the opening. The Financial Part of the Bid shall be opened publicly in the presence of Bidders' designated representatives and anyone who chooses to attend.

34.4 At this public opening the Financial Parts will be opened by the Employer in the presence of Bidders, or their designated representatives and anyone else who chooses to attend. Bidders who met the Qualification Criteria and whose bids were evaluated as substantially responsive will have their envelopes marked "SECOND ENVELOPE: FINANCIAL PART" opened at the second public opening. Each of these envelopes marked "SECOND ENVELOPE: FINANCIAL PART" shall be inspected to confirm that they have remained sealed and unopened. These envelopes shall then be opened by the Employer. The Employer shall read out the names of each Bidder, and the total Bid prices, per lot (contract) if applicable, including any discounts and Alternative Bid - Financial Part, and any other details as the Employer may consider appropriate.

34.5 Only envelopes of Financial Part of Bids, Financial Parts of Alternative Bids and discounts that are opened and read out at Bid opening shall be considered further for evaluation. The Letter of Bid – Financial Part and the Priced Activity Schedules are to be initialed by a representative of the Employer attending the Bid opening in the manner **specified in the BDS**.

34.6 The Employer shall neither discuss the merits of any Bid nor reject any envelopes marked "SECOND ENVELOPE: FINANCIAL PART".

34.7 The Employer shall prepare a record of the Financial Part of the Bid opening that shall include, as a minimum:

(a) the name of the Bidder whose Financial Part was opened;

(b) the Bid price, per lot (contract) if applicable, including any discounts; and

(c) if applicable, any Alternative Bid – Financial Part.

34.8 The Bidders whose envelopes marked "SECOND ENVELOPE: FINANCIAL PART" have been opened or their representatives who are present shall be requested to sign the record. The omission of a Bidder's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Bidders.

I. Evaluation of Financial Parts of Bids

35. Evaluation of Financial Parts

35.1 To evaluate the Financial Part, the Employer shall consider the following:

(a) the Bid price, excluding Provisional Sums and the provision, if any, for contingencies in the Summary Bill of Quantities for admeasurement contracts, but including Daywork items, where priced competitively;

(b) price adjustment for correction of arithmetic errors in accordance with ITB 36.1;

(c) price adjustment due to discounts offered in accordance with ITB 14.4;

(d) converting the amount resulting from applying (a) to (c) above, if relevant, to a single currency in accordance with ITB 37;

(e) price adjustment due to quantifiable nonmaterial nonconformities in accordance with ITB 29.3; and

(f) the additional evaluation factors are specified in Section III, Evaluation and Qualification Criteria.

35.2 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in Bid evaluation.

35.3 If this bidding document allows Bidders to quote separate prices for different lots (contracts), the methodology to determine the lowest evaluated cost of the contract combinations, including any discounts offered in the Letter of Bid – Financial Part, is specified in Section III, Evaluation and Qualification Criteria

36. Correction of Arithmetical Errors

36.1 In evaluating the Financial Part of each Bid, the Employer shall correct arithmetical errors on the following basis:

(a) only for admeasurement contracts, if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, 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;

(b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and

(c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.

36.2 Bidders shall be requested to accept correction of arithmetical errors. Failure to accept the correction in accordance with ITB 36.1, shall result in the rejection of the Bid.

37. Conversion to Single Currency

37.1 For evaluation and comparison purposes, the currency(ies) of the Bids shall be converted in a single currency as **specified in the BDS.**

38. Margin of Preference

38.1 Unless otherwise **specified in the BDS,** a margin of preference for domestic Bidders[3] shall not apply.

39. Comparison of Financial Parts

39.1 The Employer shall compare the evaluated costs of all responsive and qualified Bids to determine the Bid that has the lowest evaluated cost.

40. Abnormally Low Bids

40.1 An Abnormally Low Bid is one where the Bid price, in combination with other constituent elements of the Bid, appears unreasonably low to the extent that the Bid price raises material concerns as to the capability of the Bidder to perform the Contract for the offered Bid price.

40.2 In the event of identification of a potentially Abnormally Low Bid, the Employer shall seek written clarifications from the Bidder, including detailed price analyses of its Bid price in correlation to the subject matter of the contract, scope, proposed methodology, schedule, allocation of risks and responsibilities and any other requirements of the bidding document.

40.3 After evaluation of the price analyses, in the event that the Employer determines that the Bidder has failed to demonstrate its capability to deliver the contract for the offered tender price, the Employer shall reject the Bid.

41. Unbalanced or Front Loaded Bids

41.1 If the Bid for an admeasurement contract, which results in the lowest evaluated cost, in the Employer's opinion, seriously unbalanced or front loaded the Employer may require the Bidder to provide written clarifications. Clarifications may include detailed price analyses to demonstrate the consistency of the Bid prices with the scope of works, proposed methodology, schedule and any other requirements of the bidding document.

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[3] An individual firm is considered a domestic bidder for purposes of the margin of preference if it is registered in the country of the Employer, has more than 50 percent ownership by nationals of the country of the Employer, and if it does not subcontract more than 10 percent of the contract price, excluding provisional sums, to foreign contractors. JVs are considered as domestic bidders and eligible for domestic preference only if the individual member firms are registered in the country of the Employer or have more than 50 percent ownership by nationals of the country of the Employer, and the JV shall be registered in the country of the Borrower. The JV shall not subcontract more than 10 percent of the contract price, excluding provisional sums, to foreign firms. JVs between foreign and national firms will not be eligible for domestic preference.

41.2 After the evaluation of the information and detailed price analyses presented by the Bidder, the Employer may as appropriate:

(a) accept the Bid; or

(b) require that the amount of the performance security be increased at the expense of the Bidder to a level not exceeding 20% of the Contract price; or

(c) reject the Bid.

42. Most Advantageous Bid

42.1 Having compared the evaluated costs of Bids, the Employer shall determine the Most Advantageous Bid. The Most Advantageous Bid is the Bid of the Bidder that meets the Qualification Criteria and whose Bid has been determined to be:

(a) substantially responsive to the bidding document; and

(b) the lowest evaluated cost.

43. Employer's Right to Accept Any Bid, and to Reject Any or All Bids

43.1 The Employer reserves the right to accept or reject any Bid, and to annul the Bidding process and reject all Bids at any time prior to Contract Award, without thereby incurring any liability to Bidders. In case of annulment, all Bids submitted and specifically, Bid Securities, shall be promptly returned to the Bidders.

44. Standstill Period

44.1 The Contract shall not be awarded earlier than the expiry of the Standstill Period. The Standstill Period shall be ten (10) Business Days unless extended in accordance with ITB 48. The Standstill Period commences the day after the date the Employer has transmitted to each Bidder the Notification of Intention to Award the Contract. Where only one Bid is submitted, or if this contract is in response to an emergency situation recognized by the Bank, the Standstill Period shall not apply.

45. Notification of Intention to Award

45.1 The Employer shall send to each Bidder (that has not already been notified that it has been unsuccessful) the Notification of Intention to Award the Contract to the successful Bidder. The Notification of Intention to Award shall contain, at a minimum, the following information:

(a) the name and address of the Bidder submitting the successful Bid;

(b) the Contract price of the successful Bid;

(c) the names of all Bidders who submitted Bids, and their Bid prices as readout, and as evaluated;

(d) a statement of the reason(s) the Bid (of the unsuccessful Bidder to whom the notification is addressed) was unsuccessful, unless the price information in c) above already reveals the reason;

(e) the expiry date of the Standstill Period; and

(f) instructions on how to request a debriefing and/or submit a complaint during the standstill period.

J. Award of Contract

46. Award Criteria

46.1 Subject to ITB 43, the Employer shall award the Contract to the successful Bidder. This is the Bidder whose Bid has been determined to be the Most Advantageous Bid as specified in ITB 42.

47. Notification of Award

47.1 Prior to the expiration of the Bid validity and upon expiry of the Standstill Period, specified in ITB 44.1 or any extension thereof, and, upon satisfactorily addressing any complaint that has been filed within the Standstill Period, the Employer shall notify the successful Bidder, in writing, that its Bid has been accepted. The notification of award (hereinafter and in the Conditions of Contract and Contract Forms called the "Letter of Acceptance") shall specify the sum that the Employer will pay the Contractor in consideration of the execution of the contract (hereinafter, and in the Conditions of Contract and Contract Forms, called "the Contract Price").

47.2 Within ten (10) Business Days after the date of transmission of the Letter of Acceptance, the Employer shall publish the Contract Award Notice which shall contain, at a minimum, the following information:

(a) name and address of the Employer;

(b) name and reference number of the contract being awarded, and the selection method used;

(c) names of all Bidders that submitted Bids, and their Bid prices as read out at Bid opening, and as evaluated;

(d) names of all Bidders whose Bids were rejected either as nonresponsive or as not meeting qualification criteria, or were not evaluated, with the reasons therefor;

(e) the name of the successful Bidder, the final total contract price, the contract duration and a summary of its scope; and

(f) successful Bidder's Beneficial Ownership Disclosure Form, if specified in BDS ITB 49.1

47.3 The Contract Award Notice shall be published on the Employer's website with free access if available, or in at least one newspaper of national circulation in the Employer's country, or in the official gazette. The Employer shall also publish the contract award notice in UNDB online.

47.4 Until a formal Contract is prepared and executed, the Letter of Acceptance shall constitute a binding Contract.

48. Debriefing by the Employer

48.1 On receipt of the Employer's Notification of Intention to Award referred to in ITB 45.1, an unsuccessful Bidder has three (3) Business Days to make a written request to the Employer for a debriefing. The Employer shall provide a debriefing to all unsuccessful Bidders whose request is received within this deadline.

48.2 Where a request for debriefing is received within the deadline, the Employer shall provide a debriefing within five (5) Business Days, unless the Employer decides, for justifiable reasons, to provide the debriefing outside this timeframe. In that case, the standstill period shall automatically be extended until five (5) Business Days after such debriefing is provided. If more than one debriefing is so delayed, the standstill period shall not end earlier than five (5) Business Days after the last debriefing takes place. The Employer shall promptly inform, by the quickest means available, all Bidders of the extended standstill period

48.3 Where a request for debriefing is received by the Employer later than the three (3)-Business Day deadline, the Employer should provide the debriefing as soon as practicable, and normally no later than fifteen (15) Business Days from the date of publication of Public Notice of Award of contract. Requests for debriefing received outside the three (3)-day deadline shall not lead to extension of the standstill period.

48.4 Debriefings of unsuccessful Bidders may be done in writing or verbally. The Bidder shall bear their own costs of attending such a debriefing meeting.

49. Signing of Contract

49.1 The Employer shall send to the successful Bidder the Letter of Acceptance including the Contract Agreement, and, if s**pecified in the BDS,** a request to submit the Beneficial Ownership Disclosure Form providing additional information on its beneficial ownership. The Beneficial Ownership Disclosure Form, if so requested, shall be submitted within eight (8) Business Days of receiving this request.

49.2 The successful Bidder shall sign, date and return to the Employer, the Contract Agreement within twenty-eight (28) days of its receipt.

50. Performance Security

50.1 Within twenty-eight (28) days of the receipt of the Letter of Acceptance from the Employer, the successful Bidder shall furnish the Performance Security and, if required in the BDS, the Environmental and Social (ES) Performance Security in accordance with the General Conditions of Contract, subject to ITB 41.2 (b), using for that purpose the Performance Security and ES Performance Security Forms included in Section X, Contract Forms, or another form acceptable to the Employer. If the Performance Security furnished by the successful Bidder is in the form of a bond, it shall be issued by a bonding or insurance company that has been determined by the successful Bidder to be acceptable to the Employer. A foreign institution providing a bond shall have a correspondent financial institution located in the Employer's Country, unless the Employer has agreed in writing that a correspondent financial institution is not required.

50.2 Failure of the successful Bidder to submit the above-mentioned Performance Security and, if required in the BDS, the Environmental and Social (ES) Performance Security, or to sign the Contract Agreement shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security. In that event the Employer may award the Contract to the Bidder offering the next Most Advantageous Bid.

51. Adjudicator

51.1 The Employer proposes the person named **in the BDS** to be appointed as Adjudicator under the Contract, at the hourly fee **specified in the BDS**, plus reimbursable expenses. If the Bidder disagrees with this proposal, the

Bidder should so state in his Bid. If, in the Letter of Acceptance, the Employer does not agree on the appointment of the Adjudicator, the Employer will request the Appointing Authority designated in the Particular Conditions of Contract (PCC) pursuant to Clause 23.1 of the General Conditions of Contract (GCC), to appoint the Adjudicator.

52. Procurement Related Complaint

52.1 The procedures for making a Procurement-related Complaint are as specified in the BDS.

Section II - Bid Data Sheet (BDS)

The following specific data for the Works to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

A. General	
ITB 1.1	The reference number of the Request for Bids (RFB) is: **MoH/BFDA/WORKS3** The Employer is**: BFDA, MoH** The name of the RFB is: **Construction of S+G+3+J Storied Sanitary and Phytosanitary (SPS) Building Centre at Phuentsholing.**
ITB 1.1	The number and identification of lots (contracts) comprising this RFB is: **Construction of S+G+3+J Storied Sanitary and Phytosanitary (SPS) Building Centre at Phuentsholing.**
ITB 1.2 (a)	Electronic –Procurement System: Not Applicable.
ITB 2.1	The Borrower is: Royal Government of Bhutan towards the cost of Accelerate Bhutan's Job Transformation through Renewable Natural Resource Value Chains (P506825) to be implemented by BFDA, MoH, as a Special Purpose Vehicle by the Project Implementation Unit. Loan or Financing Agreement amount applied for: **USD $ 471,000.00** The name of the Project is: **Accelerate Bhutan's Job Transformation through Renewable Natural Resource Value Chains (P506825)**
ITB 4.1	Maximum number of members in the JV shall be: **not be more than 2 (Two) members**
ITB 4.5	A list of debarred firms and individuals is available on the Bank's external website: http://www.worldbank.org/debarr.
B. Contents of Bidding Document	
ITB 7.1	For Clarification of Bid purposes only, the Employer's address is: **1. Attention on technical aspects: Mr. Mahesh Tamang, Engineer** **2. Attention on tendering process: Sherub Gyeltshen, PMU** **Address: RNR Jobs Project Office, MoAL** **City: Thimphu**

	ZIP Code:11001 **Country: Bhutan** **Electronic mail address:** mtamang@moit.gov.bt Copy email to: sherubg@moal.gov.bt
ITB 7.1	Requests for clarification should be received by the Employer no later than**: 10 working days upon issuance of the Bid.** The Employer shall publish its responses to the requests for clarification on its Web page: www.moal.gov.bt
ITB 7.4	A Pre-Bid meeting: **Not Applicable** A site visit conducted by the Employer shall not be organized.
ITB 7.6	The Employer shall publish Minutes of Pre-Bid Meeting on its Web page: **Not Applicable**
ITB 8.2	Amendments shall be published in webpage: www.moal.gov.bt Amendments shall not be sent to prospective bidders. It is bidders' responsibility to monitor this website for amendments, if any.
C. Preparation of Bids	
ITB 10.1	The language of the Bid is: **English** **All correspondence exchange shall be in English.** Language for translation of supporting documents and printed literature is English .

ITB 11.2 (h)	The Bidder shall submit the following additional documents in its Bid: **a) Code of Conduct for Contractor's Personnel (ES)** The Bidder shall submit its Code of Conduct that will apply to Contractor's Personnel (as defined in Sub- Clause 1 (ii) of the General Conditions of Contract), to ensure compliance with the Contractor's Environmental and Social (ES) obligations under the Contract. The Bidder shall use for this purpose the Code of Conduct form provided in Section IV. No substantial modifications shall be made to this form, except that the Bidder may introduce additional requirements, including as necessary to take into account specific Contract issues/risks. **b) Management Strategies and Implementation Plans (MSIP) to manage the (ES) risks** The Bidder shall submit Management Strategies and Implementation Plans (MSIPs) to manage the following key Environmental and Social (ES) risks: **Refer to Section: 4 (ESMP)** **c) Copy of valid BCTA certificate (W3) (Large) contract and Trade License** **d) Copy of valid Tax Clearance Certificate** **e) Copy of valid GST Registration certificate** **f) Sealed and Signed World Bank Anti-Corruption Guidelines without any changes (Refer Annexure -I)**
ITB 11.3 (b)	The following schedules shall be submitted with the Bid: **Construction Schedules for Completion of Works including the Priced Bill of Quantities**
ITB 11.3 (d)	The Bidder shall submit the following additional documents in its Bid: **None**
ITB 13.1	Alternative Bids shall not be considered.
ITB 13.2	Alternative times for completion shall not be permitted.
ITB 13.4	Alternative technical solutions shall be permitted for the following parts of the Works: **None.**
ITB 14.4	Add the following text at the end as a foot note "Letter of Bid Clause (f)" "If a Bidder wishes to offer an unconditional discount for any combination of two (2) or more lots, such Bidder may do so by offering one, and only one, such discount, which shall be expressed as a percentage to be applied to the total value of any combination of lots it has bid for. Pursuant to ITB 35.1 (c), such offered discount will be taken

	into account for the purpose of determining the lowest evaluated price of the lot (contract) combinations. A Bidder may also offer individual unconditional discount(s) to the quoted price(s) for any one or more individual lot(s), in which case the respective discount so offered for each lot shall be considered for the purpose of evaluation. If such bidder also offered a single unconditional discount for a combination of lots as described above, it shall be applied to the net bid price derived after subtracting the value of the offered individual unconditional discounts." **Not Applicable**
ITB 14.5	The prices quoted by the Bidder shall not be subject to adjustment during the performance of the Contract.
ITB 15.1	The price shall be quoted by the Bidder in: **Bhutanese Ngultrum (Nu.)**
ITB 18.1	The Bid shall be valid until: **at least 90 calendar days.**
ITB 18.3 (a)	The Bid price shall be adjusted by the following factor(s): **Not Applicable**
ITB 19.1	**A Bid Securing Declaration shall be required.**
ITB 19.3 (d)	Other types of acceptable securities: **None**
ITB 19.9	This provision shall not be applicable.
ITB 20.3	The written confirmation of authorization to sign on behalf of the Bidder shall consist of: (a) Legally valid Power of Attorney is required to demonstrate the authority of the signatory to sign the Bid; and (b) In the case of Bids submitted by an existing or intended JV, if permitted as per ITB 4.1, the authorization shall be evidenced by a Power of Attorney signed by legally authorized signatories of all the members.
D. Submission of Bids	
ITB 21.2	In addition to the original of the Bid, the number of copies is: **One (1)**
ITB 22.1	For Bid submission purposes only, the Employer's address is: **Project Director** **RNR Jobs, MoAL** **Thimphu Bhutan**

	Attention: **Tshering Dhendup** Street Address: **Chhagchhen lam** Floor/ Room number: **PPD office, MOAL** City: **Thimphu** ZIP/Postal Code: **11001** Country: **Bhutan** The deadline for Bid is: Date: **4th November, 2026** Time: **13:00Hours** Bidders shall not have the option of submitting their Bids electronically.
E. Public Opening of Technical Parts of Bids	
ITB 25.1	The Bid opening shall take place at: **PPD Conference Hall, MoAL** Street Address: **Chhagchhen lam** City: **Thimphu Country: Bhutan** Date: **4th November, 2026** Time: **14:30 Hours**
ITB 25.1	The electronic Bid opening procedures shall be: **Not Applicable**
ITB 25.6	The Letter of Bid –The envelope shall be initialed by 3(three) representatives of the Employer conducting Bid opening in following submitted bids: 1. Contractor's signed bid form 2. Bills of Quantities (BOQ) 3. Bid Securing Declaration 4. Unconditional discount offer letter (if any) 5. Bid Opening Form
F. Evaluation of Bids – General Provisions	
G. Evaluation of Bids - Technical Parts	
ITB 33.1	At this time the Employer does not intend to execute certain specific parts of the Works by subcontractors selected in advance.
ITB 33.2	The parts of the Works for which the Employer permits Bidders to propose Specialized Subcontractors are: **Installation of Elevator only if Bidder prefers to subcontract the work.**
ITB 33.3	Contractor's proposed subcontracting: **Installation of elevator only if Bidder prefer to subcontract the work**

H. Public Opening of Financial Parts	
ITB 34.2 (c)	The Employer shall provide public opening date and time in the Bid and **the date and time shall be same as on Technical Bid opening**. The financial bid shall be opened together with the Technical bid.
ITB 34.5	The Letter of Bid – The Financial Part mentioned below shall be initialed by 3 (three) representatives of the Employer conducting Bid opening. 1. Total Bid Price with discount (if any) 2. Presence/absence of bid securing Declaration
I. Evaluation of Bids - Financial Parts	
ITB 37.1	**Bhutanese Ngultrum**
ITB 38.1	A margin of domestic preference **shall not** apply.
J. Award of Contract	
ITB 49.1	**Not Applicable**
ITB 50.1 and 50.2	The successful Bidder shall not be required to submit an Environmental and Social (ES) Performance Security.
ITB 51 **Adjudicator**	The Adjudicator proposed by the Employer is: **All disputes or differences arising in connection with the present Contract shall be finally resolved by arbitration in accordance with Alternative Dispute Resolution Act of Bhutan 2013 and its Rules and Regulations 2019.**
ITB 52.1	The procedures for making a Procurement-related Complaint are detailed in the "Procurement Regulations for IPF Borrowers (Annex III)." If a Bidder wishes to make a Procurement-related Complaint, the Bidder shall submit its complaint following these procedures, In Writing (by the quickest means available, such as by email or fax), to: **For the attention**: Sherub Gyeltshen **Title/position**: Project Manager **Employer**: PMU, MoAL **Email address**: sherubg@moal.gov.bt

	In summary, a Procurement-related Complaint may challenge any of the following: 1. the terms of the Bidding Documents; 2. the Employer's decision to exclude a Bidder from the procurement process prior to the award of contract; and 3. the Employer's decision to award the contract.

Section III - Evaluation and Qualification Criteria

This section contains all the criteria that the Employer shall use to evaluate Bids and qualify Bidders when qualification in the evaluation of the Technical Part is applied. No other factors, methods or criteria shall be used other than those specified in this bidding document. The Bidder shall provide all the information requested in the forms included in Section IV, Bidding Forms.

Wherever a Bidder is required to state a monetary amount, Bidders should indicate in BTN:

- For construction turnover or financial data required for each year

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1. Technical Part

1.1 Adequacy of Technical Proposal

Evaluation of the Bidder's Technical Proposal will include an assessment of the Bidder's technical capacity to mobilize key equipment and personnel for the contract consistent with its proposal regarding work methods, scheduling, and material sourcing in sufficient detail and fully in accordance with the requirements stipulated in Section VII, Works' Requirements.

For this purpose, the Bidder should also submit:

i. A detailed note outlining its proposed methodology and program of construction including implementation of the Environmental and Social Management Plan, and safety Assurance under the contract backed with equipment planning and deployment, materials and manpower planning and deployment ***(including women and youth)*** , duly supported with broad calculations and quality control system/assurance procedures proposed to be adopted, justifying their capability of execution and completion of the work as per technical specifications within the stipulated period of completion as per milestones.

ii. Subcontracting is allowed.

1.2 Alternative Technical Solutions for specified parts of Works

The acceptability of technical alternatives for parts of the Works, if permitted under ITB 13.4, will be determined as follows: **Not Applicable**

1.3 Specialized Subcontractors

If permitted under ITB 33, only the specific experience of Subcontractors for specialized works permitted by the Employer will be considered. The general experience and financial resources of the Specialized Subcontractors shall not be added to those of the Bidder for purposes of qualification of the Bidder.
However, if there is Specialized Subcontractors, the Specialized Subcontractor must have certificate from the Authorized Dealer of the elevator.

1.4 Qualification Criteria

Pursuant to ITB 32.1, the Employer shall assess each Bid against the following Qualification Criteria. Requirements not included in the text below shall not be used in the evaluation of the Bidder's qualifications.

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All members Combined	Each member	At least one member	
1. Eligibility							
1.1	Nationality	Nationality in accordance with ITB 4.4	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Forms ELI – 1.1 and 1.2, with attachments
1.2	Conflict of Interest	No conflicts of interest in accordance with ITB 4.2	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Letter of Bid
1.3	Bank Eligibility	Not having been declared ineligible by the Bank, as described in ITB 4.5.	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Letter of Bid
1.4	State-owned enterprise or institution of the Borrower country	Meets conditions of ITB 4.6	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Forms ELI – 1.1 and 1.2, with attachments
2. Historical Contract Non-Performance							
2.1	History of Non-Performing Contracts	Non-performance of a contract [4] did not occur as a result of contractor default since 1st January 2022	Must meet requirement[5]	Must meet requirements	Must meet requirement	N/A	Form CON-2
2.2	Suspension Based on Execution of Bid/Proposal Securing Declaration by the Employer	Not under suspension based on execution of a Bid/Proposal Securing Declaration pursuant to ITB 4.7 and ITB 19.9.	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Letter of Bid

2.3	Pending Litigation	Bidder's financial position and prospective long term profitability sound according to criteria established in 3.1 below	Must meet requirement	N/A	Must meet requirement	N/A	Form CON – 2

[4] Nonperformance, as decided by the Employer, shall include all contracts where (a) nonperformance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the contractor. Nonperformance shall not include contracts where Employers decision was overruled by the dispute resolution mechanism. Nonperformance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the Bidder have been exhausted.

[5] This requirement also applies to contracts executed by the Bidder as JV member.

		and assuming that all pending litigation will be resolved against the Bidder					
2.4	Litigation History	No consistent history of court/arbitral award decisions against the Bidder[6] since 1st January 2022	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Form CON – 2
2.5	Declaration: Environmental and Social (ES) past performance	Declare any civil work contracts that have been suspended or terminated and/or performance security called by an employer for reasons of breach of environmental or social (including Sexual Exploitation and Abuse) contractual obligations in the past three (3) years[7]	Must make the declaration. Where there are Specialized Sub-contractor/s, the Specialized Sub-contractor/s must also make the declaration.	N/A	Each must make the declaration. Where there are Specialized Sub-contractor/s, the Specialized Sub-contractor/s must also make the declaration.	N/A	Form CON-3 ES Performance Declaration

	3.Financial Situation and Performance						
3.1	Financial Capabilities	To demonstrate financial capabilities, the bidder must submit Letter of Credit from the financial institution amounted to **Nu. 10 Million.** The Bidders shall also demonstrate, to the satisfaction of the Employer, that it has adequate sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments.	Must meet requirement	Must meet Requirement	N/A	N/A	Letter of Credit /Bank certificate (SBD)
3.2	Annual Construction	Annual construction turnover for calculated as total certified payments received for contracts for a year is **BTN 9 (Nine) Million** in progress and/or completed within the last **Five (5**) financial years	Must meet requirement	Must meet requirement	Must meet **25**%, of the requirement	Must meet **40** %, of the requirement	Form FIN – 3.2
3.3	Current contract commitments/ W ork in progress	Declare all work in hand and shouldn't not exceed by the maximum numbers of work in hand prescribed by the BCTA for Large category	Must meet requirement	Must meet requirement	Must meet requirement	Must meet requirement	Form FIN 3.4

6 The Bidder shall provide accurate information on the letter of Bid about any litigation or arbitration resulting from contracts completed or ongoing under its execution over the last five years. A consistent history of court/arbitral awards against the Bidder or any member of a joint venture may result in disqualifying the Bidder.

7 The Employer may use this information to seek further information or clarifications in carrying out its due diligence.

	4. Experience						
4.1(a)	General Construction Experience	Experience under construction contracts in the role of prime contractor, JV member, sub-contractor, or management contractor for at least the last Three **(3)** years, starting 1st January **2021**	Must meet requirement	N/A	Must meet requirement	N/A	Form EXP – 4.1
4.2(a)	Specific Construction & Contract Management Experience	(i) A minimum number of **1 (one)** similar contract specified below that have been satisfactorily and substantially[8] completed as a prime contractor, joint venture member[9], management contractor or sub-contractor[10] between 1st January **2021** and bid submission deadline	Must meet requirements	Must meet requirement[11]	N/A	**NA**	Form EXP 4.2(a)
4.2 (b)		For the above and any other contracts [substantially completed and under implementation] as prime contractor, joint venture member, or sub-contractor between 1st January **2021** and Application submission deadline, a minimum construction experience in the following key activities successfully completed in any one year[12]	Must meet requirements	Must meet requirements	N/A	NA	Form EXP – 4.2 (b)

4.2 (c)		For contracts [substantially completed and under implementation] as prime contractor, joint venture member, or Subcontractor between 1st January 2021 and Application submission deadline, experience in managing ES risks and impacts.	Must meet requirements	Must meet requirements	NA	NA	Form EXP – 4.2 ©

8 Substantial completion shall be based on 80% or more works completed under the contract.

9 For contracts under which the Bidder participated as a joint venture member or sub-contractor, only the Bidder's share, by value, shall be considered to meet this requirement.

10 In the case of JV, the value of contracts completed by its members shall not be aggregated to determine whether the requirement of the minimum value of a single contract has been met. Instead, each contract performed by each member shall satisfy the minimum value of a single contract as required for single entity. In determining whether the JV meets the requirement of total number of contracts, only the number of contracts completed by all members each of value equal or more than the minimum value required shall be aggregated.

In the case of JV, the value of contracts completed by its members shall not be aggregated to determine whether the requirement of the minimum value of a single contract has been met. Instead, each contract performed by each member shall satisfy the minimum value of a single contract as required for single entity. In determining whether the JV meets the requirement of total number of contracts, only the number of contracts completed by all members each of value equal or more than the minimum value required shall be aggregated.

12 Volume, number or rate of production of any key activity can be demonstrated in one or more contracts combined if executed during same time period.

5. Key Personnel (Each Lot)

The Bidder must demonstrate that it will have suitably qualified (and in adequate numbers) Key Personnel, as described below:

SN	Personnel	No	Qualification and Experience
1	Project Manager	1	B.Tech/ B.E. (Civil) > 5 years experience/Diploma (Civil) > 7 years experiences
2	Site Engineer	1	B. Tech / BE (Civil) with at least 3 years experiences/ /Diploma (civil) > experience of 5 years
3	E& S Safety Engineer	2	Degree/Diploma Engineer with Certified for Employability Skills for construction Engineers' in OHS and CMS/e-GP/CDB/BCTA refresher course

The Bidder shall submit the CV along with the proof of qualification to authenticate the experience and qualification for the manpower listed above.

The Bidder shall provide details of the Key Personnel and such other Key Personnel that the Bidder considers appropriate to perform the Contract, together with their academic qualifications and work experience. The Bidder shall complete the relevant Forms in Section IV, Bidding Forms.

6. Equipment

The Bidder must demonstrate that it has access to the key equipment listed hereafter:

No.	Equipment Type and Characteristics	Minimum Number required
1	Tripper Truck (Dumper)	1
2	Excavator or Backhoe loader	1
3	Earth Compactor or compactor machine	1
4	Concrete mixture machine	1
5	Concrete vibrator or needle vibrator	1

The Bidder shall provide further details of proposed items of equipment using Form EQU in Section IV, Bidding Forms.

The Bidder shall submit the documents to prove the ownership of the equipment. For hiring of equipment, the consent letter along with the proof of ownership with the issuer shall be submitted along with the bid.

7. Multiple Contracts

This section describes criteria for qualification for each lot (contract) for multiple lots (contracts). The criteria for qualification is aggregate minimum requirement for respective lots as specified under items 3.1, 3.2, 4.2(a) and 4.2(b). However, with respect to the specific experience under item 4.2 (a) of Section III, the Employer will select any one or more of the options as identified below:

N is the minimum number of contracts

V is the minimum value of a single contract

(a) For one Contract:

N contracts, each of minimum value V;

For awarding contracts more than one Lot, the Bidder should propose distinct and separate key staff and equipment.

2. Financial Part

2.1 Margin of Preference (Not Applicable)

2.2 Multiple Contracts

Pursuant to ITB 35.3, if Works are grouped in multiple contracts, evaluation will be as follows:

Award Criteria for Multiple Contracts:

Lots

Bidders have the option to Bid for any one or more lots. Bids will be evaluated lot-wise, taking into account discounts offered, if any, after considering all possible combination of lots. The contract(s) will be awarded to the Bidder or Bidders offering the lowest evaluated cost to the Employer for combined lots, subject to the selected Bidder(s) meeting the required qualification criteria for lot or combination of lots as the case may be.

2.3 Sustainable Procurement (Not Applicable)

2.4 Alternative Completion Time (Not Applicable)

2.5 Alternative Technical Solutions for specified parts of the Works (Not Applicable)

2.6 Other criteria

If permitted under ITB 35.1(f): **None**

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Letter of Bid - Technical Part

INSTRUCTIONS TO BIDDERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE DOCUMENT

The Bidder must prepare this Letter of Bid on stationery with its letterhead clearly showing the Bidder's complete name and business address.

Note: All italicized text is to help Bidders in preparing this form.

Date of this Bid submission: [*insert date (as day, month and year) of Bid submission*]
Request for Bid No.: [*insert identification*]
Alternative No.: [*insert identification No if this is a Bid for an alternative*]

To: **[*insert complete name of Employer*]**

We, the undersigned, hereby submit our Bid, in two parts, namely:

(d) the Technical Part, and

(e) the Financial Part

In submitting our Bid, we make the following declarations:

(a) **No reservations:** We have examined and have no reservations to the bidding document, including Addenda issued in accordance with Instructions to Bidders (ITB 8);

(b) **Eligibility**: We meet the eligibility requirements and have no conflict of interest in accordance with ITB 4;

(c) **Bid-Securing Declaration:** We have not been suspended nor declared ineligible by the Employer based on execution of a Bid-Securing Declaration or Proposal-Securing Declaration in the Employer's country in accordance with ITB 4.7;

(d) **Conformity**: We offer to execute in conformity with the bidding document the following Works: [*insert a brief description of the Works*]_____

_____;

(e) **Bid Validity**: Our Bid shall be valid until the date specified in the ITB 18.1, and it shall remain binding upon us and may be accepted at any time on or before this date;

(f) **Performance Security:** If our Bid is accepted, we commit to obtain a Performance Security [*and an Environmental and Social (ES) Performance Security, **Delete if not applicable***] in accordance with the bidding document;

(g) **One Bid Per Bidder:** We are not submitting any other Bid(s) as an individual Bidder or as a subcontractor, and we are not participating in any other Bid(s) as a Joint Venture member, and meet the requirements of ITB 4.3, other than alternative Bids submitted in accordance with ITB 13;

(h) **Suspension and Debarment**: We, along with any of our subcontractors, suppliers, consultants, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the World Bank Group or a debarment imposed by the World Bank Group in accordance with the Agreement for Mutual Enforcement of Debarment Decisions between the World Bank and other development banks. Further, we are not ineligible under the Employer's country laws or official regulations or pursuant to a decision of the United Nations Security Council;

(i) **State-owned enterprise or institution:** [*select the appropriate option and delete the other*] [*We are not a state-owned enterprise or institution*] / [*We are a state-owned enterprise or institution but meet the requirements of ITB 4.6*];

(j) **Binding Contract**: We understand that this Bid, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed;

(k) **Not Bound to Accept:** We understand that you are not bound to accept the lowest evaluated cost Bid, the Most Advantageous Bid or any other Bid that you may receive; and

(l) **Fraud and Corruption:** 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;

(m) **Adjudicator:** We accept the appointment of *[insert name proposed in Bid Data Sheet]* as the Adjudicator.

[or]

We do not accept the appointment of *[insert name proposed in Bid Data Sheet]* as the Adjudicator and propose instead that *[insert name]* be appointed as Adjudicator, whose daily fees and biographical data are attached.

Name of the Bidder: *[*insert complete name of the Bidder*]

Name of the person duly authorized to sign the Bid on behalf of the Bidder: ** [*insert complete name of person duly authorized to sign the Bid*]

Title of the person signing the Bid: [*insert complete title of the person signing the Bid*]

Signature of the person named above: [*insert signature of person whose name and capacity are shown above*]

Date signed [*insert date of signing*] **day of** [*insert month*], [*insert year*]

Date signed _____ day of _____,
_____

*: In the case of the Bid submitted by joint venture specify the name of the Joint Venture as Bidder
**: Person signing the Bid shall have the power of attorney given by the Bidder to be attached with the Bid

Appendix A to Technical Part: Technical Proposal

Site Organization

[insert Site Organization information]

Method Statement

[insert Method Statement]

Mobilization Schedule

[insert Mobilization Schedule]

Construction Schedule

[insert Construction Schedule]

Environmental and Social, Health Management Strategies and Implementation Plans (ES-MSIP)

The Bidder shall submit comprehensive and concise Environmental and Social Management Strategies and Implementation Plans (ES-MSIP) as required by ITB 11.2 (h) of the Bid Data Sheet. These strategies and plans shall describe in detail the actions, materials, equipment, management processes etc. that will be implemented by the Contractor, and its subcontractors.

In developing these strategies and plans, the Bidder shall have regard to the ES provisions of the contract including those as may be more fully described in the Works Requirements in Section VII

Code of Conduct for Contractor's Personnel (ES) Form

Note to the Bidder:

The minimum content of the Code of Conduct form as set out by the Employer shall not be substantially modified. However, the Bidder may add requirements as appropriate, including to take into account Contract-specific issues/risks.

The Bidder shall initial and submit the Code of Conduct form as part of its bid.

CODE OF CONDUCT FOR CONTRACTOR'S PERSONNEL

We are the Contractor, [*enter name of Contractor*]. We have signed a contract with [*enter name of Employer*] for [*enter description of the Works*]. These Works will be carried out at [*enter the Site and other locations where the Works will be carried out*]. Our contract requires us to implement measures to address environmental and social risks related to the Works, including the risks of sexual exploitation, sexual abuse and sexual harassment.

This Code of Conduct is part of our measures to deal with environmental and social risks related to the Works. It applies to all our staff, laborers and other employees at the Works Site or other places where the Works are being carried out. It also applies to the personnel of each subcontractor and any other personnel assisting us in the execution of the Works. All such persons are referred to as "**Contractor's Personnel"** and are subject to this Code of Conduct.

This Code of Conduct identifies the behavior that we require from all Contractor's Personnel.

Our workplace is an environment where unsafe, offensive, abusive or violent behavior will not be tolerated and where all persons should feel comfortable raising issues or concerns without fear of retaliation.

REQUIRED CONDUCT

Contractor's Personnel shall:

1. carry out his/her duties competently and diligently;
2. comply with this Code of Conduct and all applicable laws, regulations and other requirements, including requirements to protect the health, safety and well-being of other Contractor's Personnel and any other person;
3. maintain a safe working environment including by:
    a. ensuring that workplaces, machinery, equipment and processes under each person's control are safe and without risk to health;
    b. wearing required personal protective equipment;
    c. using appropriate measures relating to chemical, physical and biological substances and agents; and

d. following applicable emergency operating procedures.

4. report work situations that he/she believes are not safe or healthy and remove himself/herself from a work situation which he/she reasonably believes presents an imminent and serious danger to his/her life or health;
5. treat other people with respect, and not discriminate against specific groups such as women, people with disabilities, migrant workers or children;
6. not engage in Sexual Harassment, which means unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature with other Contractor's or Employer's Personnel;
7. not engage in Sexual Exploitation, which means any actual or attempted abuse of position of vulnerability, differential power or trust, for sexual purposes, including, but not limited to, profiting monetarily, socially or politically from the sexual exploitation of another;
8. not engage in Sexual Abuse, which means the actual or threatened physical intrusion of a sexual nature, whether by force or under unequal or coercive conditions;
9. not engage in any form of sexual activity with individuals under the age of 18, except in case of pre-existing marriage;
10. complete relevant training courses that will be provided related to the environmental and social aspects of the Contract, including on health and safety matters, and Sexual Exploitation, and Abuse (SEA) and Sexual Harassment (SH);
11. report violations of this Code of Conduct; and
12. not retaliate against any person who reports violations of this Code of Conduct, whether to us or the Employer, or who makes use of the grievance mechanism for Contractor's Personnel or the project's Grievance Redress Mechanism.

RAISING CONCERNS

If any person observes behavior that he/she believes may represent a violation of this Code of Conduct, or that otherwise concerns him/her, he/she should raise the issue promptly. This can be done in either of the following ways:

1. Contact [*enter name of the Contractor's Social Expert with relevant experience in handling gender-based violence, or if such person is not required under the Contract, another individual designated by the Contractor to handle these matters*] in writing at this address [ ] or by telephone at [ ] or in person at [ ]; or
2. Call [ ] to reach the Contractor's hotline *(if any)* and leave a message.

The person's identity will be kept confidential, unless reporting of allegations is mandated by the country law. Anonymous complaints or allegations may also be submitted and will be given all due and appropriate consideration. We take seriously all reports of possible misconduct and will investigate and take appropriate action. We will provide warm referrals to service providers that may help support the person who experienced the alleged incident, as appropriate.

There will be no retaliation against any person who raises a concern in good faith about any behavior prohibited by this Code of Conduct. Such retaliation would be a violation of this Code of Conduct.

CONSEQUENCES OF VIOLATING THE CODE OF CONDUCT

Any violation of this Code of Conduct by Contractor's Personnel may result in serious consequences, up to and including termination and possible referral to legal authorities.

FOR CONTRACTOR'S PERSONNEL:

I have received a copy of this Code of Conduct written in a language that I comprehend. I understand that if I have any questions about this Code of Conduct, I can contact [*enter name of Contractor's contact person with relevant experience*] requesting an explanation.

Name of Contractor's Personnel: [insert name]

Signature: _____

Date: (day month year): _____

Countersignature of authorized representative of the Contractor:

Signature: _____

Date: (day month year): _____

ATTACHMENT 1 TO THE CODE OF CONDUCT FORM

BEHAVIORS CONSTITUTING SEXUAL EXPLOITATION AND ABUSE (SEA) AND BEHAVIORS CONSTITUTING SEXUAL HARASSMENT (SH)

The following non-exhaustive list is intended to illustrate types of prohibited behaviors:

(1) **Examples of sexual exploitation and abuse** include, but are not limited to:

- A Contractor's Personnel tells a member of the community that he/she can get them jobs related to the work site (e.g. cooking and cleaning) in exchange for sex.
- A Contractor's Personnel that is connecting electricity input to households says that he can connect women headed households to the grid in exchange for sex.
- A Contractor's Personnel rapes, or otherwise sexually assaults a member of the community.
- A Contractor's Personnel denies a person access to the Site unless he/she performs a sexual favor.
- A Contractor's Personnel tells a person applying for employment under the Contract that he/she will only hire him/her if he/she has sex with him/her.

(2) **Examples of sexual harassment in a work context**

- Contractor's Personnel comment on the appearance of another Contractor's Personnel (either positive or negative) and sexual desirability.
- When a Contractor's Personnel complains about comments made by another Contractor's Personnel on his/her appearance, the other Contractor's Personnel comment that he/she is "asking for it" because of how he/she dresses.
- Unwelcome touching of a Contractor's or Employer's Personnel by another Contractor's Personnel.
- A Contractor's Personnel tells another Contractor's Personnel that he/she will get him/her a salary raise, or promotion if he/she sends him/her naked photographs of himself/herself.
- **Others**

Appendix B to Technical Part: Equipment

The Bidder shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in Section III, Evaluation and Qualification Criteria. A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Bidder.

Item of equipment		
Equipment information	Name of manufacturer	Model and power rating
	Capacity	Year of manufacture
Current status	Current location	
	Details of current commitments	
Source	Indicate source of the equipment (k)o Owned o Rented o Leased o Specially manufactured	

Omit the following information for equipment owned by the Bidder.

Owner	Name of owner	
	Address of owner	
	Telephone	Contact name and title
	Fax	Telex
Agreements	Details of rental / lease / manufacture agreements specific to the project	

Appendix C to Technical Part: Key Personnel

Form PER -1: Key Personnel
Schedule

Bidders should provide the names and details of the suitably qualified Key Personnel to perform the Contract. The data on their experience should be supplied using the Form PER-2 below for each candidate.

Key Personnel

1.	**Title of position:**	
	Name of candidate:	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]
2.	**Title of position:** *[Environmental Specialist]*	
	Name of candidate:	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]
3.	**Title of position:** *[Health and Safety Specialist]*	
	Name of candidate:	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]

4.	**Title of position:** *[Social Specialist]*	
	Name of candidate:	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]
5.	**Title of position: Sexual Exploitation, Abuse and Harassment Expert** *[Where a Project SEA risks are assessed to be substantial or high, Key Personnel shall include an expert with relevant experience in addressing sexual exploitation, sexual abuse and sexual harassment cases]*	
	Name of candidate	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]
6.	**Title of position: *[insert title]***	
	Name of candidate	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]

Form PER-2: Resume and Declaration
Key Personnel

Name of Bidder

Position [*#1*]: [*title of position from Form PER-1*]		
Personnel information	**Name:**	**Date of birth:**
	Address:	**E-mail:**
	Professional qualifications:	
	Academic qualifications:	
	Language proficiency:*[language and levels of speaking, reading and writing skills]*	
details		
	Address of employer:	
	Telephone:	**Contact (manager / personnel officer):**
	Fax:	
	Job title:	**Years with present employer:**

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

Project	**Role**	**Duration of involvement**	**Relevant experience**
[main project details]	*[role and responsibilities on the project]*	*[time in role]*	*[describe the experience relevant to this position]*

Declaration

I, the undersigned Key Personnel, certify that to the best of my knowledge and belief, the information contained in this Form PER-2 correctly describes myself, my qualifications and my experience.

I confirm that I am available as certified in the following table and throughout the expected time schedule for this position as provided in the Bid:

Commitment	**Details**
Commitment to duration of contract:	*[insert period (start and end dates) for which this Key Personnel is available to work on this contract]*
Time commitment:	*[insert the number of days/week/months/ that this Key Personnel will be engaged]*

I understand that any misrepresentation or omission in this Form may:

(a) be taken into consideration during Bid evaluation;

(b) my disqualification from participating in the Bid;

(c) my dismissal from the contract.

Name of Key Personnel: [*insert name*]

Signature: _____

Date: (day month year): _____

Countersignature of authorized representative of the Bidder:

Signature: _____

Date: (day month year): _____

Appendix D to Technical Part: Bidder's Qualification

To establish its qualifications to perform the contract in accordance with Section III (Evaluation and Qualification Criteria) the Bidder shall provide the information requested in the corresponding Information Sheets included hereunder.

Form ELI -1.1
Bidder Information Form

Date: _____
RFB No. and title: _____
Page _____ of _____ pages

Bidder's name
In case of Joint Venture (JV), name of each member:
Bidder's actual or intended country of registration: *[indicate country of Constitution]*
Bidder's actual or intended year of incorporation:
Bidder's legal address [in country of registration]:
Bidder's authorized representative information Name: _____ Address: _____ Telephone/Fax numbers: _____ E-mail address: _____
1. Attached are copies of original documents of ☐ Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above, in accordance with ITB 4.4. ☐ In case of JV, letter of intent to form JV or JV agreement, in accordance with ITB 4.1. ☐ In case of state-owned enterprise or institution, in accordance with ITB 4.6 documents establishing: ● Legal and financial autonomy ● Operation under commercial law ● Establishing that the Bidder is not under the supervision of the Employer 2. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership. *[If required under BDS ITB 49.1, the successful Bidder shall provide additional information on beneficial ownership, using the Beneficial Ownership Disclosure Form.]*

Form ELI -1.2
Bidder's JV Information Form
(to be completed for each member of Bidder's JV)

Date: _____
RFB No. and title: _____
Page _____ of _____ pages

Bidder's JV name:
JV member's name:
JV member's country of registration:
JV member's year of constitution:
JV member's legal address in country of constitution:
JV member's authorized representative information Name: _____ Address: _____ Telephone/Fax numbers: _____ E-mail address: _____
1. Attached are copies of original documents of ☐ Articles of Incorporation (or equivalent documents of constitution or association), and/or registration documents of the legal entity named above, in accordance with ITB 4.4. ☐ In case of a state-owned enterprise or institution, documents establishing legal and financial autonomy, operation in accordance with commercial law, and that they are not under the supervision of the Employer, in accordance with ITB 4.6. 2. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership. *[If required under BDS ITB 49.1, the successful Bidder shall provide additional information on beneficial ownership for each JV member using the Beneficial Ownership Disclosure Form.]*

Form CON – 2
Historical Contract Non-Performance, Pending Litigation and Litigation History

Bidder's Name: _____
Date: _____
JV Member's Name_____
RFB No. and title: _____
Page _____of _____pages

Non-Performed Contracts in accordance with Section III, Evaluation and Qualification Criteria			
☐ Contract non-performance did not occur since 1st January *[insert year]* specified in Section III, Evaluation and Qualification Criteria, Sub-Factor 2.1. ☐ Contract(s) not performed since 1st January *[insert year]* specified in Section III, Evaluation and Qualification Criteria, requirement 2.1			
Year	**Non-performed portion of contract**	**Contract Identification**	**Total Contract Amount (In Bhutanese Currency (Nu.) ~~current value, currency, exchange rate and US$ equivalent)~~**
[insert year]	*[insert amount and percentage]*	Contract Identification: *[indicate complete contract name/ number, and any other identification]* Name of Employer: *[insert full name]* Address of Employer: *[insert street/city/country]* Reason(s) for nonperformance: *[indicate main reason(s)]*	*[insert amount]*
Pending Litigation, in accordance with Section III, Evaluation and Qualification Criteria			
☐ No pending litigation in accordance with Section III, Evaluation and Qualification Criteria, Sub-Factor 2.3. ☐ Pending litigation in accordance with Section III, Evaluation and Qualification Criteria, Sub-Factor 2.3 as indicated below.			

Year of dispute	Amount in dispute (currency)	Contract Identification	Total Contract Amount (in Bhutanese Currency (Nu.) Nu. ~~USD Equivalent (exchange rate)~~
		Contract Identification: _____ Name of Employer: _____ Address of Employer: _____ Matter in dispute: _____ Party who initiated the dispute: ____ Status of dispute: _____	
		Contract Identification: Name of Employer: Address of Employer: Matter in dispute: Party who initiated the dispute: Status of dispute:	

Litigation History in accordance with Section III, Evaluation and Qualification Criteria

☐ No Litigation History in accordance with Section III, Evaluation and Qualification Criteria, Sub-Factor 2.4.

☐ Litigation History in accordance with Section III, Evaluation and Qualification Criteria, Sub-Factor 2.4 as indicated below.

Year of award	Outcome as percentage of Net Worth	Contract Identification	Total Contract Amount (in Bhutanese currency (Nu.) ~~USD Equivalent (exchange rate)~~

[insert year]	*[insert percentage]*	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Employer: *[insert full name]* Address of Employer: *[insert street/city/country]* Matter in dispute: *[indicate main issues in dispute]* Party who initiated the dispute: *[indicate "Employer" or "Contractor"]* Reason(s) for Litigation and award decision *[indicate main reason(s)]*	*[insert amount]*

Form CON – 3:
Environmental and Social (ES) Performance Declaration

[The following table shall be filled in for the Bidder, each member of a Joint Venture and each Specialized Subcontractor]

Bidder's Name: *[insert full name]*
Date: *[insert day, month, year]*
Joint Venture Member's or Specialized Subcontractor's Name: *[insert full name]*
RFB No. and title: *[insert RFB number and title]*
Page *[insert page number]* of *[insert total number]* pages

Environmental and Social, Performance Declaration in accordance with Section III, Qualification Criteria, and Requirements			
☐ **No suspension or termination of contract**: An employer has not suspended or terminated a contract and/or called the performance security for a contract for reasons related to Environmental, or Social (ES) performance since the date specified in Section III, Qualification Criteria, and Requirements, Sub-Factor 2.5. ☐ **Declaration of suspension or termination of contract**: The following contract(s) has/have been suspended or terminated and/or Performance Security called by an employer(s) for reasons related to Environmental or Social (ES) performance since the date specified in Section III, Qualification Criteria, and Requirements, Sub-Factor 2.5. Details are described below:			
Year	**Suspended or terminated portion of contract**	**Contract Identification**	**Total Contract Amount (in Bhutanese Currency (Nu.) current value, ~~currency, exchange rate and US$ equivalent)~~**
[insert year]	*[insert amount and percentage]*	Contract Identification: *[indicate complete contract name/ number, and any other identification]* Name of Employer: *[insert full name]* Address of Employer: *[insert street/city/country]* Reason(s) for suspension or termination: *[indicate main reason(s) e.g. for gender-based violence; sexual exploitation or sexual abuse breaches]*	*[insert amount]*

[insert year]	*[insert amount and percentage]*	Contract Identification: *[indicate complete contract name/ number, and any other identification]* Name of Employer: *[insert full name]* Address of Employer: *[insert street/city/country]* Reason(s) for suspension or termination: *[indicate main reason(s)]*	*[insert amount]*
...	...	*[list all applicable contracts]*	...
Performance Security called by an employer(s) for reasons related to ES performance			
Year	Contract Identification		Total Contract Amount (In Bhutanese Currency (Nu.) ~~current value, currency, exchange rate and US$ equivalent)~~
[insert year]	Contract Identification: *[indicate complete contract name/ number, and any other identification]* Name of Employer: *[insert full name]* Address of Employer: *[insert street/city/country]* Reason(s) for calling of performance security: *[indicate main reason(s) e.g. for gender-based violence; sexual exploitation, or sexual abuse breaches]*		*[insert amount]*

Form FIN – 3.1
Financial Situation and Performance

Bidder's Name: _____
Date: _____
JV Member's Name_____
RFB No. and title: _____
Page _____of _____pages

1. Financial data

Type of Financial information in (Bhutanese currency (Nu.)	**Historic information for previous 5(five) financial years** _____*years,* _____ **(amount in currency, currency, exchange rate*, USD equivalent)**				
	Year 1 (2020)	Year 2 2021	Year 3 2022	Year4 2023	Year 5 2024
Statement of Financial Position (Information from Balance Sheet)					
Total Assets (TA)					
Total Liabilities (TL)					
Total Equity/Net Worth (NW)					
Current Assets (CA)					
Current Liabilities (CL)					
Working Capital (WC)					
Information from Income Statement					
Total Revenue (TR)					
Profits Before Taxes (PBT)					
Cash Flow Information					
Cash Flow from Operating Activities					

*Refer to ITB 15 for the exchange rate

2. Sources of Finance

Specify sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments.

No.	Source of finance	Amount (Nu.~~US$ equivalent~~)
1		
2		
3		

2. Financial documents

The Bidder and its parties shall provide copies of financial statements for **last 5(five)** _____years pursuant Section III, Evaluation and Qualifications Criteria, Sub-factor 3.1. The financial statements shall:

(a) reflect the financial situation of the Bidder or in case of JV member, and not an affiliated entity (such as parent company or group member).

(b) be independently audited or certified in accordance with local legislation.

(c) be complete, including all notes to the financial statements.

(d) correspond to accounting periods already completed and audited.

☐ Attached are copies of financial statements[4] for the _____years required above; and complying with the requirements

[4] If the most recent set of financial statements is for a period earlier than 12 months from the date of bid, the reason for this should be justified.

Form FIN – 3.2
Average Annual Construction Turnover

Bidder's Name: _____
Date: _____
JV Member's Name_____
RFB No. and title: _____
Page _____of _____pages

	Annual turnover data (construction only)		
Year	**Amount in Bhutanese Currency (Nu.)**	**~~Exchange rate~~**	**~~USD equivalent~~**
[indicate year]	*[insert amount and indicate currency]*		
2024			
2023			
2022			
2021			
2020			
Average Annual Construction Turnover *			

* See Section III, Evaluation and Qualification Criteria, Sub-Factor 3.2.

Form FIN – 3.3
Financial Resources

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contract or contracts as specified in Section III (Evaluation and Qualification Criteria)

Financial Resources		
No.	**Source of financing**	**Amount (Nu.)**
1		
2		
3		

Form FIN – 3.4
Current Contract Commitments / Works in Progress

Bidders and each member to a JV should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

Current Contract Commitments

No.	Name of Contract	Employer's Contact Address, Tel, Fax	Value of Outstanding Work [Current US$ Equivalent]	Estimated Completion Date	Average Monthly Invoicing Over Last Six Months [US$/month)]
1					
2					
3					
4					
5					

Form EXP - 4.1
General Construction Experience

Bidder's Name: _____
Date: _____
JV Member's Name_____
RFB No. and title: _____
Page _____of _____pages

Starting Year	Ending Year	Contract Identification	Role of Bidder
		Contract name: _____ Brief Description of the Works performed by the Bidder: _____ Amount of contract: _____ Name of Employer: _____ Address: _____	
		Contract name: _____ Brief Description of the Works performed by the Bidder: _____ Amount of contract: _____ Name of Employer: _____ Address: _____	
		Contract name: _____ Brief Description of the Works performed by the Bidder: _____ Amount of contract: _____ Name of Employer: _____ Address: _____	

Form EXP - 4.2(a)
Specific Construction and Contract Management Experience

Bidder's Name: _____
Date: _____
JV Member's Name_____
RFB No. and title: _____
Page _____of _____pages

Similar Contract No.	**Information**			
Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor ☐	Member in JV ☐	Management Contractor ☐	Sub-contractor ☐
Total Contract Amount			US$	
If member in a JV or sub-contractor, specify participation in total Contract amount				
Employer's Name:				
Address: Telephone/fax number E-mail:				

Form EXP - 4.2(a) (cont.)
Specific Construction and Contract Management Experience (cont.)

Similar Contract No.	Information
Description of the similarity in accordance with Sub-Factor 4.2(a) of Section III:	
1. Amount	
2. Physical size of required works items	
3. Complexity	
4. Methods/Technology	
5. Construction rate for key activities	
6. Other Characteristics	

Form EXP - 4.2(b)
Construction Experience in Key Activities

Bidder's Name: _____
Date: _____
Bidder's JV Member Name: _____
Sub-contractor's Name[5] (as per ITB 34.2 and 34.3): _____
RFB No. and title: _____

Page _____ of _____ pages

All Sub-contractors for key activities must complete the information in this form as per ITB 33.2 and 33.3 and Section III, Qualification Criteria and Requirements, Sub-Factor 4.2.

1. Key Activity No One: _____

	Information			
Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor ☐	Member in JV ☐	Management Contractor ☐	Sub-contractor ☐
Total Contract Amount			US$	
Quantity (Volume, number or rate of production, as applicable) performed under the contract per year or part of the year	Total quantity in the contract (i)	Percentage participation (ii)		Actual Quantity Performed (i) x (ii)
~~Year 1~~ (2024)				
~~Year 2~~ (2023)				
~~Year 3~~ (2022)				
~~Year 4~~ (2021)				
~~Year 5~~ (2020)				

[5] If applicable

	Information
Employer's Name:	
Address: Telephone/fax number E-mail:	

2. Activity No. Two

3. ……

	Information
Description of the key activities in accordance with Sub-Factor 4.2(b) of Section III:	

Form EXP - 4.2(c)
Specific Experience in Managing ES aspects

[The following table shall be filled in for contracts performed by the Bidder, and each member of a Joint Venture]

Bidder's Name: _____
Date: _____
Bidder's JV Member Name: _____
RFB No. and title: _____
Page _____ of _____ pages

1. Key Requirement no 1 in accordance with 4.2 (c): _____

Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor ☐	Member in JV ☐	Management Contractor ☐	Subcontractor ☐
Total Contract Amount			US$	
Details of relevant experience				

2. Key Requirement no 2 in accordance with 4.2 (c): _____

3. Key Requirement no 3 in accordance with 4.2 (c): _____

Appendix E to Technical Part: Bid Security

Form of Demand Guarantee

Beneficiary: _____

Request for Bids No: _____

Date: _____

BID GUARANTEE No.: _____

Guarantor: _____

We have been informed that _____ (hereinafter called "the Applicant") has submitted or will submit to the Beneficiary its Bid (hereinafter called "the Bid") for the execution of _____ under Request for Bids No. _____ ("the RFB").

Furthermore, we understand that, according to the Beneficiary's conditions, bids must be supported by a bid guarantee.

At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of _____ (_____) upon receipt by us of the Beneficiary's complying demand, supported by the Beneficiary's statement, whether in the demand itself or a separate signed document accompanying or identifying the demand, stating that either the Applicant:

(a) has withdrawn its Bid prior to the Bid validity expiry date set forth in the Applicant's Letter of Bid, or any extended date provided by the Applicant; or

(b) having been notified of the acceptance of its Bid by the Beneficiary prior to the expiry date of the Bid validity or any extension thereto provided by the Applicant, (i) has failed to execute the contract agreement, or (ii) has failed to furnish the performance security, and, if required, the Environmental and Social (ES) Performance Security, in accordance with the Instructions to Bidders ("ITB") of the Beneficiary's bidding document.

This guarantee will expire: (a) if the Applicant is the successful Bidder, upon our receipt of copies of the contract agreement signed by the Applicant and the Performance Security and, if required, the Environmental and Social (ES) Performance Security, issued to the Beneficiary in relation to such contract agreement; or (b) if the Applicant is not the successful Bidder, upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the Bidding process; or (ii) twenty-eight days after the expiry date of the Bid validity.

Consequently, any demand for payment under this guarantee must be received by us at the office indicated above on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758.

_____

[Signature]

Form of Bid-Securing Declaration

[The Bidder shall fill in this Form in accordance with the instructions indicated.]

Date: [date (as day, month and year)]
Bid No.: [number of RFB process]
Alternative No.: [insert identification No if this is a Bid for an alternative]

To: [complete name of Purchaser]
We, the undersigned, declare that:

We understand that, according to your conditions, Bids must be supported by a Bid Securing Declaration.

We accept that we are required to pay the Bid Security amount of **Nu. 750,000.00 (Seven Hundred Fifty Thousand)** only within 5 days of your instruction and failure to do so will debar us from being eligible for Bidding in any contract with all the Government Procuring Agencies for the period prescribed in the Debarment Rules if we are in breach of our obligation(s) under the Bid conditions, because we:

a. have withdrawn our Bid during the period of Bid validity specified by the Bidder in the Form of Bid; or
b. having not accepted the correction of errors in accordance with the Instructions to Bidders ITB; or
c. Having been notified of the acceptance of our Bid by the Procuring Agency during the period of Bid validity, (i) fail or refuse to furnish the performance security in accordance with the ITB, or (ii) fail or refuse to execute the Contract in accordance with the ITB.

We understand this Bid Securing Declaration shall expire if we are not the successful Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) twenty-eight days after the expiry date of the Bid validity.

Name of the Bidder*_
Name of the person duly authorized to sign the Bid on behalf of the Bidder**_____
Title of the person signing the Bid_____
Signature of the person named above_____
Date signed _____ day of _____,

*: In the case of the Bid submitted by joint venture specify the name of the Joint Venture as Bidder
**: Person signing the Bid shall have the power of attorney given by the Bidder attached to the Bid

[Note: In case of a Joint Venture, the Bid-Securing Declaration must be in the name of all members to the Joint Venture that submits the Bid.]

Letter of Bid - Financial Part

INSTRUCTIONS TO BIDDERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE DOCUMENT

The Bidder must prepare this Letter of Bid on stationery with its letterhead clearly showing the Bidder's complete name and business address.

Note: All italicized text in black font is to help Bidders in preparing this form.

Date of this Bid submission: [*insert date (as day, month and year) of Bid submission*]
Request for Bid No.: [*insert identification*]
Alternative No.: [*insert identification No if this is a Bid for an alternative*]

To: **[*insert complete name of Employer*]**

We, the undersigned, hereby submit the second part of our Bid, the Bid Price and Bill of Quantities. This accompanies the Letter of Technical Part.

In submitting our Bid, we make the following additional declarations:

(a) **Bid Validity**: Our Bid shall be valid until *[insert day, month and year in accordance with ITB 18.1]*, and it shall remain binding upon us and may be accepted at any time on or before this date;

(b) **Total Price**: The total price of our Bid, excluding any discounts offered in item (f) below is: [Insert one of the options below as appropriate]

[Option 1, in case of one lot:] Total price is: [*insert the total price of the Bid in words and figures, indicating the various amounts and the respective currencies*];

Or

[Option 2, in case of multiple lots:] (a) Total price of each lot [*insert the total price of each lot in words and figures, indicating the various amounts and the respective currencies*]; and (b) Total price of all lots (sum of all lots) [*insert the total price of all lots in words and figures, indicating the various amounts and the respective currencies*];

(c) **Discounts:** The discounts offered and the methodology for their application are:

(i) The discounts offered are: [*Specify in detail each discount offered*]

(ii) The exact method of calculations to determine the net price after application of discounts is shown below: [*Specify in detail the method that shall be used to apply the discounts*];

(d) **Commissions,** gratuities **and fees:** We have paid, or will pay the following commissions, gratuities, or fees with respect to the Bidding process or execution of the Contract: [*insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity*].

Name of Recipient	Address	Reason	Amount

(If none has been paid or is to be paid, indicate "none.")

Name of the Bidder:*[*insert complete name of the Bidder*]

Name of the person duly authorized to sign the Bid on behalf of the Bidder: ** [*insert complete name of person duly authorized to sign the Bid*]

Title of the person signing the Bid: [*insert complete title of the person signing the Bid*]

Signature of the person named above: [*insert signature of person whose name and capacity are shown above*]

Date signed [*insert date of signing*] **day of** [*insert month*], [*insert year*]

*: In the case of the Bid submitted by a Joint Venture specify the name of the Joint Venture as Bidder.

**: Person signing the Bid shall have the power of attorney given by the Bidder. The power of attorney shall be attached with the Bid Schedules

Appendix A to Financial Part: Schedules Bill of Quantities

Refer to Volume II of Bid Documents

Section V - Eligible Countries

Eligibility for the Provision of Goods, Works and Non-consulting Services in Bank-Financed Procurement

In reference to ITB 4.8 and ITB 5.1, for the information of the Bidders, at the present time firms, goods and services from the following countries are excluded from this Bidding process:

Under ITB 4.8 (a) and ITB 5.1: None

Under ITB 4.8 (b) and ITB 5.1: None

Section VI - Fraud and Corruption

(Section VI 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 misprocurement, 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;[6] (ii) to be a nominated[7] 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[8] 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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6 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.

7 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.

8 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.

PART 2 – Works' Requirements

Section VII - Works' Requirements

Refer to Volume II of Bid Documents
Section 1: BOQs
Section 2: Drawings
Section 3: Technical Specifications
Section 4: ESMP

Section 1 & 3: Bill Of Quantities (BOQ) and Technical Specifications for Electrical Works

SI. No	BSR Code	Description	Unit	Qty	Rate in Figure	Rate in words	Amount
1		**POINT WIRING FOR HDPE CONDUIT**					
1.11	WH0300	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 recessed HDPE pipe including connections, painting, testing and commissioning etc. as required- **Short Point**	points	191			
1.12	WH0301	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 recessed HDPE pipe including connections, painting, testing and commissioning etc. as required**- medium Point**	points	144			
1.13	WH0302	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 recessed HDPE pipe including connections, painting, testing and commissioning etc. as required- **Long Point**	points	77			
1.14	WH0340	Wiring for 5/6 pin, 16 ampere plug point with 4 sq.mm 1.1kV grade, PVC insulated copper conductor cable in recessed HDPE pipe with providing and fixing 5/6 pin, 16 ampere socket outlet and switch including earthing the third pin, connections, painting, testing and commissioning etc. as required- **Short Point**	points	6			
1.15	WH0341	Wiring for 5/6 pin, 16 ampere plug point with 4 sq.mm 1.1kV grade, PVC insulated copper conductor cable in recessed HDPE pipe with providing and fixing 5/6 pin, 16 ampere socket outlet and switch including earthing the third pin, connections, painting, testing and commissioning etc. as required- **Medium Point**	points	16			
1.16	WH0342	Wiring for 5/6 pin, 16 ampere plug point with 4 sq.mm 1.1kV grade, PVC insulated copper conductor cable in recessed HDPE pipe with providing and fixing 5/6 pin, 16 ampere socket outlet and switch including earthing the third pin, connections, painting, testing and commissioning etc. as required- **Long Point**	points	115			
1.17	WH0381	Wiring for points in excess length above long points with 1.1kV grade, PVC insulated copper conductor cable in recessed HDPE pipe	m	35.7			

		including connections, painting, testing and commissioning etc. as required- **2x1.5 sq.mm**					
1.18	WH0382	Wiring for points in excess length above long points with 1.1kV grade, PVC insulated copper conductor cable in recessed HDPE pipe including connections, painting, testing and commissioning etc. as required- **2x4 sq.mm**	m	143.15			
1.19	WH0391	Wiring for lighting circuit with 1.1kV grade, PVC insulated copper conductor cable in recessed HDPE pipe including connections, painting, testing and commissioning etc. as required-**2x2.5 sq.mm**	m	381.45			
2	**BOXES, SWITCHES & SOCKETS**						
2.1	BX0052	Supplying & fixing of metal boxes for switch/socket outlet/switch socket combined/ gang switches, recessed in walls including painting etc as required- **3 module**	each	131			
2.2	PF0013	Supplying & fixing of plates & frame for switch/socket outlet/switch socket combined/ gang switches, etc as required- **Plate 3-module with frame**	each	131			
2.3	SS0060	Supplying & fixing of 6A switch on existing metal box with fibre sheet cover (recessed or surface) including necessary cutting, connection testing etc. as required.-**6A switch SP 1-way**	each	48			
	SS0105	Supplying & fixing of switch/socket on existing metal box with fibre sheet cover (recessed or surface), including necessary cutting, connection testing etc.- **16A switch SP 1 or 2 way**	each	83			
2.4	SS0075	Supplying & fixing of socket/regulator on existing metal box with fibre sheet cover (recessed or surface) including necessary cutting, connection testing etc. as required.- **Dimmer/regulator**	each	43			

2.5	SS0106	Supplying & fixing of switch/socket on existing metal box with fibre sheet cover (recessed or surface), including necessary cutting, connection testing etc.**-5/6 pin, 6/16A socket outlet, shuttered**	each	83			
2.6	SS0091	Supplying & fixing of socket outlet on existing metal box with fibre sheet cover (recessed or surface) including necessary cutting, connection testing etc. as required.**- 5 pin universal socket outlet**	each	48			
3	**SUB MAIN WIRING FROM MDB TO SDB**						
3.1	AR-ELE-01	Wiring for sub-main with 1.1kV grade, PVC insulated copper conductor cable in PVC Conduit including earthing with 1x4 sq.mm with necessary connections, painting, testing and commissioning etc. as required- **4x16 sq.mm**	m	66			
3.2	AR-ELE-02	Wiring for sub-main with 1.1kV grade, PVC insulated copper conductor cable in PVC Conduit including earthing with 1x4 sq.mm with necessary connections, painting, testing and commissioning etc. as required**- 2x10 sq.mm**	m	77.3			
4	**SUPPLY & INSTALLATION OF FIXTURE & FAN**						
4.01	FN0002	Supplying, installation, testing & commissioning of ceiling fan 240 volt A.C 1400 rpm with all accessories such as down rod, sweep 3 Nos.,canopy 2 Nos., condenser and fan body etc. complete as required**- 1200 mm sweep**	each	33			
4.02	FN0003	Supplying, installation, testing & commissioning of ceiling fan 240 volt A.C 1400 rpm with all accessories such as down rod, sweep 3 Nos.,canopy 2 Nos., condenser and fan body etc. complete as required**- 1400 mm sweep**	each	11			
4.03	IL0382	Supplying & fixing of prewired indoor surface/ceiling mounted LED Tube light luminiares of 3000/4000/6000k, complete with all accessories with necessary testing & commissioning. **- 22W**	each	14			
4.04	IL0309	Supplying & fixing of prewired indoor surface/ceiling mounted round/square LED luminiares of 3000/4000/6000k, complete with all accessories with necessary testing & commissioning.**- 22W**	each	140			

4.05	IL0305	Supplying & fixing of prewired indoor surface/ceiling mounted round/square LED luminiares of 3000/4000/6000k, complete with all accessories with necessary testing & commissioning.- **12W**	each	27			
4.06	IL0494	Supplying & fixing of prewired indoor surface wall mounted Decorative mirror light LED luminiares of 3000/4000/6000k, complete with all accessories with necessary testing & commissioning.**-10W**	each	13			
4.07	FN0030	Supplying, installation, testing & commissioning of ceiling fan 240 volt A.C 1400 rpm with all accessories such as down rod, sweep 3 Nos.,canopy 2 Nos., condenser and fan body etc. complete as required**-300mm sweep**	each	12			
4.08	FN0032	Supplying, installation, testing & commissioning of ceiling fan 240 volt A.C 1400 rpm with all accessories such as down rod, sweep 3 Nos.,canopy 2 Nos., condenser and fan body etc. complete as required**-480mm sweep**	each	11			
4.09	IL0311	Supplying & fixing of prewired indoor surface/ceiling mounted round/square LED luminiares of 3000/4000/6000k, complete with all accessories with necessary testing & commissioning.- **42W**	each	1			
4.1	FN0047	Supplying & fixing of Aluminium louveres for exhaust fan complete all accessories as required**- 450mm sweep**	each	11			
4.2	IL0641	Supplying & fixing of prewired indoor recessed ceiling mounted Down light COB LED luminiares of 3000/4000/6000k, complete with all accessories with necessary testing & commissioning & cutting & painting as required.**- 9W**	each	26			
4.3	IL0644	Supplying & fixing of prewired indoor recessed ceiling mounted Down light LED luminiares of 3000/4000/6000k, complete with all accessories with necessary testing & commissioning & cutting & painting as required.**18W**	each	20			
4.4	AR-ELE-03	Supplying & fixing of prewired indoor Surfcae PANCA 22W Modern Ceiling LED Light LED Acrylic Minimalism Square Ceiling Lamps for Hall Living Room Office (2 Square LED Light). Dimensions: 14 cm x 14 cm, including all the accessories as reqred.. **- 22W**	each	12			

4.5	IL0513	Supplying & fixing of prewired indoor Decorative flexible LED strip light luminiares, complete with all accessories with necessary testing & commissioning.- **10W**	m	77			
4.6	AR-ELE-04	Supplying and Installation of 32W LED Office Ceiling Light | Height Adjustable Hanging Light Indoor Commercial Profile Pendant Lamp,complete with all accessories with necessary testing & commissioning & cutting & painting as required. Dimensions : L- 120 cm, B-7cm H- 5cm- 32W	each	2			
4.7	IL0308	Supplying & fixing of prewired indoor surface/ceiling mounted round/square LED luminiares of 3000/4000/6000k, complete with all accessories with necessary testing & commissioning.- **18W**	each	70			
4.8	IL0473	Supplying & fixing of prewired indoor surface Wall light LED luminiares of 3000/4000/6000k, complete with all accessories with necessary testing & commissioning.**-8W**	each	10			
4.9	SS0250	Supplying & fixing of prewired call bell 250 volt A.C with base, terminal block and all accessories complete- **Musical bell assembly**	each	4			
5	**SUPPLY & INSTALLATION OF SWITCH GEARS**						
5.01	GB0271	Supply & Installation, testing & commissioning 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: **10A**	each	46			
5.02	GB0272	Supply & Installation, testing & commissioning 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: **16A**	each	136			
5.03	GB0314	Supply & Installation, testing & commissioning of miniature circuit breaker (MCB) double pole, 230 volt A.C complete with all accessories suitable to fix on a din-bar etc. as required: **25A**	each	1			
5.04	GB0316	Supply & Installation, testing & commissioning of miniature circuit breaker (MCB) double pole, 230 volt A.C complete with all accessories suitable to fix on a din-bar etc. as required: **40A**	each	2			

5.05	GB0318	Supply & Installation, testing & commissioning of miniature circuit breaker (MCB) double pole, 230 volt A.C complete with all accessories suitable to fix on a din-bar etc. as required: 63**A**	each	2			
5.06	GB0353	Supply & Installation, testing & commissioning of miniature circuit breaker (MCB) triple pole & neutral, 415 volt A.C complete with all accessories suitable to to fix on a din-bar etc. as required: **40A**	each	4			
5.07	GB0355	Supply & Installation, testing & commissioning of miniature circuit breaker (MCB) triple pole & neutral, 415 volt A.C complete with all accessories suitable to to fix on a din-bar etc. as required: **63A**	each	2			
5.08	GB0456	Supply & Installation, testing & commissioning of residual current circuit breaker (RCCB) double pole, sensitivity 300mA, 230 volt A.C complete with all accessories suitable to to fix on a din-bar etc. as required:**25A**	each	1			
5.09	GB0458	Supply & Installation, testing & commissioning of residual current circuit breaker (RCCB) double pole, sensitivity 300mA, 230 volt A.C complete with all accessories suitable to to fix on a din-bar etc. as required:40**A**	each	2			
5.1	GB0459	Supply & Installation, testing & commissioning of residual current circuit breaker (RCCB) double pole, sensitivity 300mA, 230 volt A.C complete with all accessories suitable to to fix on a din-bar etc. as required:63**A**	each	2			
5.11	GB0503	Supply & Installation, testing & commissioning of residual current circuit breaker (RCCB) 4 pole, sensitivity 300mA, 415 volt A.C complete with all accessories suitable to to fix on a din-bar etc. as required: **40A**	each	4			
5.12	GB0504	Supply & Installation, testing & commissioning of residual current circuit breaker (RCCB) 4 pole, sensitivity 300mA, 415 volt A.C complete with all accessories suitable to to fix on a din-bar etc. as required: **63A**	2				
5.11	GB0240	Supplying & Installation, testing & commissioning of panel moulded case circuit breaker (MCCB) with electronic release, breaking capacity 50KA, 4 pole 415 volt A.C complete with all accessories etc. as required: **250A**	each	1			

5.12	GB0527	Supply & fixing of SPN distribution board (DIN type) with arcylic door, 230 volt A.C complete with all accessories without MCB/isolator/RCCB out going or incoming etc. as required:4 **ways**	each	1			
5.14	GB0530	Supply & fixing of SPN distribution board (DIN type) with arcylic door, 230 volt A.C complete with all accessories without MCB/isolator/RCCB out going or incoming etc. as required:**12 ways**	each	2			
5.15	GB0531	Supply & fixing of SPN distribution board (DIN type) with arcylic door, 230 volt A.C complete with all accessories without MCB/isolator/RCCB out going or incoming etc. as required:**16 ways**	each	2			
5.16	GB0546	Supply & fixing of TPN distribution board (DIN type,horizontal/Vertical) with arcylic door,415 volt A.C complete with all accessories without MCB/isolator/RCCB out going or incoming etc. as required: **6ways**	each	3			
5.17	GB0547	Supply & fixing of TPN distribution board (DIN type,horizontal/Vertical) with arcylic door,415 volt A.C complete with all accessories without MCB/isolator/RCCB out going or incoming etc. as required: **8ways**	each	2			
5.18	GB0547	Supply & fixing of TPN distribution board (DIN type,horizontal/Vertical) with arcylic door,415 volt A.C complete with all accessories without MCB/isolator/RCCB out going or incoming etc. as required: **12ways**	each	1			
5.19	AR-ELE-05	Providing, fabricating, supplying, installing, testing and commissioning of 415V, LT indoor type distribution panel, fabricated from 1.5/2.0 mm thick CRCA sheet steel with powder-coated finish, complete with aluminium busbars, phase indicating lamps, neutral and earth busbars, cable alleys, and internal wiring with PVC insulated copper conductors, including all necessary hardware and accessories, as required at site. The panel shall be suitable for accommodating: a) 1 Nos. incoming MCCBs of 400A rating, b) 1 Nos. Aluminium Bas Bar - 600mm, 300A	each	1			

		c) 1 Nos. Aluminium Bas Bar - 300mm, 100A					
		d) 6 Nos of TPN MCB, 40A & 63A e) 1 nos 3 phase eneergy meter, CT Type f) 4 Nos 1p eneergy meter g) 4 Nos DP MCB 63A & 40A					
		The panel design, drawings, and sample, shall be submitted to and approved by the Engineer/Employer prior to installation. The work shall also include termination and connection of all external cables to the incoming MCCB and outgoing MCBs.					
6	**SUPPLY & LAYING OF POWER CABLE**						
6.1	PC0184	Supplying of 4- Core 1.1KV grade PVC insulated and sheathed Aluminium conductor armoured power cables: **95 sq.mm**	m	40			
6.2	CL0004	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 cushing, protective covering and refilling the trenches etc. as required: **Above 70sq.mm to 150sq.mm**	m	38			
7	**SUPPLY & INSTALLATION OF LIGHTING ARRESTER**						
7.1	ET0130	Providing and laying of GEE slab earthing including all accessories, connection and complete as required as per standard earthing drawing: **GEE slab 5ft x 1ft x 5cm**	each	12			
7.2	ET0076	Providing and laying of metal strip at 0.5m below ground level for as strip earth electrodes including soldering etc as required: **25x4mm copper strip**	m	38			
7.3	LG0002	Providing and fixing lightning conductor including holes etc. complete as required:**25mm dia 900mm long copper tube four prong at top with 85mm dia 3mm thick copper base plate**	each	2			
8	**SUPPLY & INSTALLATION AIR CONDITIONER**						
8.1	AC0017	Providing & fixing Split Type Air Conditioners:**2 tonne, split type**	each	22			
9	**SUPPLY & INSTALLATION INTERNET**						

9.1	CD0221	Supplying and fixing of HDPE pipe on recessed including all accessories such as screws, bends,elbows, Tees, corners, etc. complete as required: **25mm**	m	170			
9.2	BX0051	Supplying & fixing of metal boxes for switch/socket outlet/switch socket combined/ gang switches, recessed in walls including painting etc as required: **2 Module**	each	20			
9.3	PF0012	Supplying & fixing of plates & frame for switch/socket outlet/switch socket combined/ gang switches, etc as required: **Plate 2-module with frame**	each	20			
9.4	AR-ELE-06	Providing and drawing CAT 6 UTP Cable in existing recessed 25mm hdpe pipe, including all necessary fitting, testing and comissioning at complete required.	m	422.66			
9.5	SS0177	Supplying & fixing of socket outlet on existing PVC surface box including necessary cutting, connection testing etc. as required.	each	20			
9.6	AR-ELE-07	Providing and installation of access point, wifi 6 dual band (2.4GHz/5GHz) upto 1.2 GB/s, including testing, comissioning as complete required.	each	15			
9.7	AR-ELE-09	Providing and installation of switch 24 Port (10/100/1000 GB) including all accessories for complete required for testing and comissioning	each	1			
9.9	AR-ELE-16	Supply, delivery, installation, testing and commissioning of 16U standard 19-inch network rack cabinet suitable for housing networking and CCTV equipment such as DVR/NVR, 24-port switch, patch panels, UPS and accessories.: 16U rack	each	1			
10	**SUPPLY & INSTALLATION CCTV**						

10.1	CD0221	Supplying and fixing of HDPE pipe on recessed including all accessories such as screws, bends,elbows, Tees, corners, etc. complete as required: **25mm**	m	90			
10.2	AR-ELE-11	Supply, installation, testing & commissioning of 5MP Bullet Outdoor CCTV Camera complete with bracket, fixing accessories, configuration and commissioning as complete as required: 5MP Bullet Outdoor CCTV Camera	each	6			
10.3	AR-ELE-12	Supply, laying, testing and commissioning of RG59 + 2 Core Siamese CCTV cable (Copper conductor, 75 ohm, PVC insulated) including pulling through PVC conduit/trunking, termination with BNC connectors at DVR and camera side, complete as per site requirement.	m	90			
10.4	AR-ELE-13	Providing, supplying, installation, testing and commissioning of 8-channel HD Digital Video Recorder (DVR/XVR) for CCTV surveillance system, fully compatible with AHD/TVI/CVI/CVBS analog HD cameras with auto signal detection, complete with all necessary accessories, configuration, and integration for smooth operation and remote monitoring, complete in all respect.	each	1			
10.5	AR-ELE-14	Providing, supplying, installation, testing and commissioning of 4TB Surveillance Grade Internal Hard Disk Drive (HDD) suitable for CCTV DVR/XVR systems, designed for continuous 24x7 video recording, complete with mounting, configuration, formatting, and testing in DVR system, complete in all respect.	each	1			
10.6	AR-ELE-15	supply, installation, testing and commissioning of 24-inch Full HD (1920×1080) IPS LED Monitor suitable for CCTV surveillance system. The monitor shall be of industrial/office grade suitable for 24×7 operation, having minimum specifications: Screen Size: 23.8–24 inch (± tolerance) Panel Type: IPS, anti-glare Resolution: Full HD 1920 × 1080 Aspect Ratio: 16:9	Each	1			

		Viewing Angle: 178° H/V					
		Input Ports: HDMI and VGA minimum					
		Response Time: ≤5 ms					
		Brightness: ≥250 cd/m²					
		Suitable for multi-screen CCTV display (2×3 split view)					
		Wall mount / desk stand included					
		Power cable and signal cable included					
		Compatible with DVR/NVR systems					
		Complete in all respect as per site requirement.					
10.7	AR-ELE-10	Providing and installation of 6U Internet Rack with all accessories as required. including all accessories for complete required for testing and comissioning:6U Internet Rack	each	1			
11		**SUPPLY & INSTALLATION LIFT**					
		Supply, installation, testing, and commissioning of 01 No. passenger elevator (10 persons / 680 kg), Machine Room Less (MRL), gearless traction type with PMSM motor and VVVF drive, suitable for commercial/office building, serving 5 stops / 5 landings (~15 m travel height), complete with all accessories, safety systems, electrical protections, erection works in all respects.					
		1. Technical Specifications					
11.1		(a) Type: Machine Room Less (MRL), Gearless Traction (b) Capacity: 680 kg (10 Persons) (c) Speed: Minimum 1.0 m/s (d) Travel Height: Approx. 15 m	set	1			

		(d) Stops/Landings: 5 Stops / 5 Landings (In-line) (e) Drive: Permanent Magnet Synchronous Motor (PMSM) with VVVF control (f) Controller: Microprocessor-based collective selective control (Simplex)					
		(e) Door Type: Automatic center opening, SS 304 hairline finish					
		2. Car Cabin & Finishes					
		(a) SS 304 hairline finish walls (b) Rear side mirror panel (full/half height) (c) LED false ceiling with energy-efficient lighting (d) Automatic ventilation fan					
		(e) Car flooring: Granite/stone finish (20 mm thick – by others; recessed platform provided)					
		3. Doors & Entrances					
		(a) Automatic center opening sliding doors (b) SS 304 hairline finish for car and landing doors (c) Door protection: Full-height infrared light curtain (minimum 36 beams)					
		(d) Door operator: VVVF-controlled					
		4. Fixtures & Controls					
		(a) Car Operating Panel (COP): Stainless steel, full height with Braille buttons (b) Landing Operating Panels (LOP): SS finish with call buttons (c) Indicators: Digital floor position indicators in car and at all landings (d) Hall Lanterns: Up/down direction indicators at all floors (e) Communication: Hands-free intercom system (Car to security/ground floor)					
		5. Safety Systems					
		(a) Automatic Rescue Device (ARD) with battery backup (b) Fireman switch at ground floor (c) Overload warning indicator with buzzer (d) Emergency alarm and stop switch (e) Overspeed governor with safety gear (f) Final limit switches (g) Door safety interlocks					

		6. Electrical & Protection Systems					
		(a) Power supply: 415V, 3-phase, 50 Hz (b) Control voltage: 24V DC (c) Protection Panel (mandatory): (d) Over-voltage & under-voltage protection (e) Surge Protection Device (SPD) (f) Phase reversal & phase failure protection (g) Earth leakage protection (ELCB/RCCB) (h) All internal wiring, traveling cables, and connections included					
		7. Scope of Work					
		Detailed design and preparation of GA drawings Supply and installation of complete elevator system Guide rails, counterweight, machine, controller, and all components shaft equipment installation including brackets and supports Shaft lighting and pit lighting Scaffolding, hoisting, and erection works Testing and commissioning					
		8. Standards & Compliance					
		IS 14665 / IS 15100 / IS 3534					
		EN 81 (equivalent international standards acceptable)					
		All components shall be new and factory tested from approved makes					
		Compliance with Lift Inspector technical requirements					
12	**SUPPLY & INSTALLATION T.V POINT**						
12.1	CD0221	Supplying and fixing of HDPE pipe on recessed including all accessories such as screws, bends,elbows, Tees, corners, etc. complete as required: **25mm**	m	60			
12.3	BX0051	Supplying & fixing of metal boxes for switch/socket outlet/switch socket combined/ gang switches, recessed in walls including painting etc as required: **2 Module**	each	4			
12.4	PF0012	Supplying & fixing of plates & frame for switch/socket outlet/switch socket combined/ gang switches, etc as required: **Plate 2-module with frame**	each	4			

12.5	SS0077	Supplying & fixing of socket/regulator on existing metal box with fibre sheet cover (recessed or surface) including necessary cutting, connection testing etc. as required. **TV coaxial socket**	each	4			
12.6	TC0030	Provide & draw Tv coaxial cable in existing surface/ recessed conduit complete as required: **RG-6 coaxial cable**	m	60			
TOTAL AMOUNT FOR ELECTRICAL WORKS							
5% GST							
GRAND TOTAL (Inclusive of 5%GST)							

Section 1 & 3: Bill Of Quantities (BOQ) and Technical Specifications for Civil Works

Construction Type	SL. No	BSR CODE	Description of Work	No	L	W	H / D	Quantity	Unit	Rate in Figure	Rate in Word	Amount
Building Works	1	EW0046	**Mechanical Excavations of Foundation pit:** Earth work in excavation over areas using Excavator, exceeding 300mm in depth, 1.5m in width as well as 10 sq.m in area on plan, including dressing, levelling and disposal of excavated earth, lead up to 50m and lift up to 1.5m. {All Types of soil}. The base pit shall be watered & compacted to create hard base. *{Same soil to be backfilled}*	1	-	-	-	1247.95	Cu.m			
Building Works	2	EW0106	**Manual Trenches Excavation for Plinth Beam:** 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.	1	-	-	-	12.02	Cu.m			
Building Works	3	SM0072	**Stone soling, filling & edging below footing pad:** Providing and laying Hand packed stone filling or soling with stones.	1	-	-	-	111.03	Cu.m			
Building Works	4	CW0005	**PCC Bed below footing pad: {M10 Mix Ratio}:** 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 crushed rock 20 mm nominal size)}	1	-	-	-	73.68	Cu.m			
Building Works	5	RC0001	**RCC Works up to Plinth Level {M25 Mix ratio}:** Providing & laying in position reinforced cement concrete excluding the cost of centering, shuttering and reinforcement - all work upto plinth level. { 1:1:2 (1 cement : 1 sand : 2 graded crushed rock 20 mm nominal size)}.	1	-	-	-	128.8	Cu.m			
Building Works	6	RC0017	**RCC Works for Beams: {M25 Mix Ratio}:** Providing & laying in position reinforced cement concrete work in beams, lintels, bands, plain window sills, staircases, spiral staircases upto floor five level excluding the cost of centering, shuttering and reinforcement.*{1:1:2 (1 cement : 1 sand : 2 graded crushed rock 20 mm nominal size)}*	1	-	-	-	103.64	Cu.m			
Building Works	7	RC0009	**RCC Works for Columns: {M25 Mix Ratio}:** Providing & laying in position reinforced cement concrete work in plinth and skirting courses, fillets, columns , pillars, posts and struts upto floor five level excluding the cost of centering, shuttering and reinforcement. { 1:1:2 (1 cement : 1 sand : 2 graded crushed rock 20 mm nominal size)}	1	-	-	-	138.1	Cu.m			

Building Works	8	RC0013	**RCC Works in all suspended Floors {M25 Mix Ratio}:** Providing & laying in position reinforced cement concrete work in suspended floor, roofs having slope upto 15 Degree, landings, balconies, shelves and chajjas upto floor five level excluding the cost of centering, shuttering and reinforcement. 1:1:2 (1 cement : 1 sand : 2 graded crushed rock 20 mm nominal size)	1	-	-	-	205.27	Cu.m			
Building Works	9	RC0017	**RCC Works in all Stair Case {M25 Mix Ratio}:** Providing & laying in position reinforced cement concrete work in beams, lintels, bands, plain window sills, staircases, spiral staircases up to floor five level excluding the cost of centering, shuttering and reinforcement. {1:1:2 (1 cement : 1 sand : 2 graded crushed rock 20 mm nominal size)}	1	-	-	-	11.83	Cu.m			
Building Works	10	RC0005	**RCC Works for Shear Wall : {M25 Mix Ratio}:** Providing & laying in position reinforced cement concrete work in walls (any thickness) including attached pilasters buttresses, piers, abutments etc. upto floor five level excluding the cost of centering, shuttering and reinforcement. { 1:1:2 (1 cement : 1 sand : 2 graded crushed rock 20 mm nominal size)}.	1	-	-	-	52.63	cu.m			
Building Works	11	RC0044	**Traditional Cornices:** 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 as per standrad design excluding cost of reinforcement & decorative painting. **Lintel cornice (only cornice portion at external face):** Cornices above all types of window including Bhog, pem & Dhung.	1	-	-	-	98	m			
Building Works	12	RC0042	**Traditional Cornices:** 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 as per standrad design excluding cost of reinforcement & decorative painting. Multi-Storied building.. at all middle floor levels (excluding the cost of phana)	1	-	-	-	37.8	m			

Building Works	13	RC0041	**Traditional Cornices:** 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 as per standrad design excluding cost of reinforcement & decorative painting. Multi-Storied building..at floor 2 level and at other floors where Lhanglag is provided including the cost of lhanglag {Zhu & Kachen}	1	14.3	-	-	14.3	m			
Building Works	14	RC0083	**Steel Reinforcement:** 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.	1	-	-	-	7839 8.54	Kg			
Building Works	15	BW0240	**Brick Works: (Autoclaved aerated Cement Blocks {AAC}):** Providing and laying locally manufactured autoclaved aerated cement blocks masonry (AAC blocks) in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made separately). *All brick materials shall be BSB certified and shall be verified by the concerned site engineer. The bricks shall be undergone test prior to procuring by the concerned site engineer.*	1	-	-	-	283.5 5	Cu. m			
Building Works	16	BW0151 + BW0172	**Solid Concrete Bricks in Counter table:** Providing & laying locally manufactured concrete block brick in Foundation & Plinth & Extra for concrete block brick work in superstructure above plinth level, up to floor two level. {In cement mortar 1:4}. Quality shall be tested and verified by the site engineer.	1	-	-	-	5.87	Cu. m			
Building Works	17	CW0003	**PCC Works for Sill band: {100mm thick, 4"}.** 1:2:4 (1 cement: 2 sands: 4 graded crushed rock 20 mm nominal size). ***{M25 Mix Ratio}***	1	-	-	-	12.27	Cu. m			
Building Works	18	PL0041	**External Wall Plastering:** Providing & laying 20mm cement plaster {C.M 1:4}. Mix Ratio shall be verified by the concerned site engineer.	1	-	-	-	987.7	sq. m			
Building Works	19	PL0031	**Internal Wall Plastering:** Providing & laying 15mm cement plaster on rough side of single or half-brick wall.	1	-	-	-	1821. 9	sq. m			
Building Works	20	PL0011	Providing & laying 6mm cement plaster (in ceilings) {C.M 1:4 }	1	-	-	-	1017. 27	sq. m			

Building Works	21	PL0080	**Decorative Plaster:** Rough cast plaster with a mixture of sand and gravel or crushed stone 2-12mm including plaster in 2 layers-12mm 1:4, & 10mm 1:3 hydrated lime cement.	1	-	-	-	17.31	sq. m			
Building Works	22	PT0010	**Primer on plastered surface:** Providing & applying one coat of primers {Cement prime}. Ensure proper mix and verifications form the concerned site engineer.	1	-	-	-	3826.87	sq. m			
Building Works	23	PL0125	**Putty Finishes:** Providing & applying putty of thickness 2mm or more over plastered surface to prepare the surface even and smooth complete.	1	-	-	-	1153.5	sq. m			
Building Works	24	PT0052	**External Wall painting:** Vinyl plastic emulsion paint, for cement, masonry, plaster, two coats on new work	1	-	-	-	987.7	sq. m			
Building Works	25	PT0111	**Painting of Cornices:** Providing, preparing and applying Sumdang washable painting{Ding}.	1	-	-	-	134.6	sq. m			
Building Works	26	PT0047	**Paint on MS members:** Providing & applying of Synthetic enamel, for steel & wood work, two coats on new work fo the surface after giving a neat clean and finish.	1	-	-	-	86.93	sq. m			
Building Works	27	GL0002	**Vitrified Floor tiles (All ties shall be BSB Certified brand or equivalence):** Providing and laying vitrified tiles in flooring, treads of steps and landings in different sizes (Sizes and thickness to be specified by the engineer/as per design) in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) finished with tiles grout flush pointing. The floor shall be cleaned and washed prior to laying of cement mortar.	1	-	-	-	871.11	sq. m			
Building Works	28	GL0001	**Wall Tiles & Skirting (All ties shall be BSB Certified brand or equivalence):** Providing and fixing vitrified tiles in skirting, step risers, dado and wall in different sizes (Sizes and thickness to be specified by the engineer/as per design) in all colours and shade, on 12 mm thick cement mortar 1:3 (1 cement:3 sand) finished with Tiles grout flush-pointing.	1	-	-	-	131.84	sq. m			

Building Works	29	FL0176	**Granite Flooring:** Providing and laying Pre-Polished/ Polished Granite of approved quality and source in flooring using necessary cement bedding in C.M. 1:4 upto 20 mm thick average cement slurry for fixing the tiles with required slopes, curing, cleaning, filling the joints with pigments of similar colour and at all levels with all leads and lifts etc. complete as per directions of site incharge and as per pattern required. { 20mm Thick granite stone flooring over 20mm thick base of cement mortar 1:4}.	1	-	-	-	200.23	sq. m			
Building Works	30	FL0176 + FL0177	**Granites on Stair case thread:** *Extra, for granite stone flooring for laying in step-tread, width.*	1	-	-	-	50.67	sq. m			
Building Works	31	FL0178	Extra, for granite stone flooring for nosing in step-treads	1	-	-	-	177.8	m			
Building Works	32	FL0175	**Skirting of Stair case:** 18mm Thick granite stone flooring over 18mm thick base of cement mortar 1:4.	1	-	-	-	5.27	sq. m			
Building Works	33	PI0051	**Modular European Toilet pot: {BSB certified Brand or equivilence}:** Providing & fixing European-type vitreous china w.c One piece Toilet with seat cover, repairing walls complete. {Quality shall be verified by the concerned site engineer}.	1	-	-	-	17	Each			
Building Works	34	AR-01	**Flush Table counter top wash basin {BSB certified brand or equivalence}:** Providing & fixing modular, rectangular Flush white vitreous china counter top wash basin including, CI Bracket, 15mm C.P. brass pillar taps, c.p. chain & rubber plug, 32mm pvc waste, 32mm dia. trap & union, repair walls. Modular standard premium quality. {Quality shall be verified by the concerned site engineer}. The basin shall flush on the counter table.	20	-	-	-	20	Each			
Building Works	35	AR-02	Providing & Fixing of Stainless-Steel Health Faucet gung {Toilet Spray Jet} including connection to the toilet pot.	17	-	-	-	17	Each			
Building Works	36	PI0260	Providing & fixing toilet paper holder {C.P. brass}.	17	-	-	-	17	Each			
Building Works	37	PI0252	Providing & fixing c.p. towel rail 750 x 20mm with c.p brass brackets fixed to wooden cleats	17	-	-	-	17	Each			
Building Works	38	PI0270	**Soap Container, Coat Hooks:** Providing & fixing Liquid soap container, c.p, including c.p brass lid & brackets, wooden cleats, c.p brass screws.	20	-	-	-	20	Each			
Building Works	39	PI0275	**Providing & fixing soap dish:** Including brackets, wooden cleats, c.p. brass screws.	23	-	-	-	23	Each			
Building Works	40	PI0286	Providing & fixing c.p coat hook	57	-	-	-	57	Each			

Building Works	41	AR-03	**Mirrors: {Superior quality}:** Providing & fixing of rectangular wall pivot or mounted mirror of superior quality, with curved edge of dimension 450 x 600 x 4mm, with plastic beat frame. The assembly must include a heavy-duty adjustable tilting mechanism with side-mounted pivot brackets. {Quality shall be verified by the concerned site engineer}.	23	-	-	-	23	Each			
Building Works	42	PI0065	**Urinals: {BSB Certified or equivalence}:** Providing & fixing white vitreous china flat back, lipped front urinal basin 430x260x350mm, including all fittings, painting, and repairing walls complete. {Quality shall be verified by the concerned site engineer}.	3	-	-	-	3	Each			
Building Works	43	PI0251	Providing & fixing 450x120mm glass shelf, including c.p brass brackets fixed to wooden cleats	6	-	-	-	6	Each			
Building Works	44	AR - 04	**Overhead rain shower:** Providing & fixing square adjustable {250 x 250 with 450mm arm} stainless steel overhead rain shower in complete, including chipping of wall, plastering and back to the neat finish of wall. {Site engineer Shall verify the quality of product}.	6	-	-	-	6	Each			
Building Works	45	PI0205	Providing & fixing c.p. brass bibcock {BSB Certified Brand}: 15mm, standard vertical, c.p knob	19	-	-	-	19	Each			
Building Works	46	PI0185	Providing & fixing c.p. brass stop cock{BSB Certified Brand}: 15mm, standard, c.p knob	44	-	-	-	44	Each			
Building Works	47	AR - 05	**Sink Tap:** *Providing & fixing brass J spout for all sinks.*	9	-	-	-	9	Each			
Building Works	48	PI0129	Providing & fixing Kitchen Sinks including all connections and fittings: Stainless steel, 1740 x 520 x 200 mm, double bowl & single drain-board.*{Quality shall be verified by the concerned site engineer}.*	4	-	-	-	4	Each			
Building Works	49	PI0125	Providing & fixing Kitchen Sinks including all connections and fittings:Stainless steel, 1150 x 515 x 175 mm, single bowl & drain-board {Quality shall be verified by the concerned site engineer}.	7	-	-	-	7	Each			
Building Works	50	PI0033	Providing & fixing plastic tank including all accessories complete. {2000 litter capacity of - 3 layers}, outer UV layer coated. *{Shall be BSB Certified Brands}.*	2	-	-	-	2	Each			
Building Works	51	PI0164	Providing & fixing Electric water heater including necessary fittings {Shall be BSB certified brands or equivalence}.50 litres	6	-	-	-	6	Each			

Building Works	52	PO0702	**Water Pipe: Shall be BSB Certified brands:** Providing and fixing 3-layer PP-R (Polypropylene Random Copolymer) PN 16 pipes, SDR 7.4 UV Stabilized and anti microbial fusion welded, having thermal stability for hot and cold water supply including all PP-R plain and brass Threaded Polypropylene random fittings excluding trenching, refilling but including testing of joints complete as per direction of Engineer-in- Charge. *{All Connecting parts shall be considered}.*	1	-	-	-	117.1	m			
Building Works	53	PO0703	From tank till Stilth Floor {32mm}, PP-R Pipe	1	-	-	-	158	m			
Building Works	54	PO0370	**PVC pipes and Fittings: {Shall be BSB Certified Brands}:** Providing & fixing P.V.C soil waste and vent pipes, single or double socketed, including pipe clip complete (excluding the cost of PVC fittings. {75mm dia}.	1	-	-	-	132.89	m			
Building Works	55	PO0372	Solid waste pipe from Toilet pot. {110mm dia}.	1	-	-	-	106	m			
Building Works	56	PO0380	*Providing & fixing P.V.C Pipe connector {110mm dia}*	35	-	-	-	35	Each			
	57	PO0415	*Providing & fixing P.V.C door bend.{75mm dia}*	15	-	-	-	15	Each			
	58	PO0417	*Providing & fixing P.V.C door bend.{110 mm dia}*	13	-	-	-	13	Each			
	59	PO0505	*Providing & fixing P.V.C Double Y, with door {75mm dia}*	8	-	-	-	8	Each			
	60	PO0507	*Providing & fixing P.V.C Double Y, with door { 100 mm dia}*	8	-	-	-	8	Each			
	61	PO0545	*Providing & fixing P.V.C Floor Trap*	19	-	-	-	19	Each			
Building Works	62	AR - 06	**Laminated Door shutter:** Providing and fixing of 30mm thick laminated doors {Dark oak texture} to the neat finish including hinges. The surface shall be smooth and to neat laminal finish.	1	-	-	-	72.45	sq. m			
Building Works	63	WW0811	**WPC Door Shutter:** Providing & fixing 30mm Thick WPC (Wood Plastic Composite) moulded door shutter complete including hinges – Standard.	1	-	-	-	32.55	sq. m			
Building Works	64	WW0804	**WPC Door Shutter:** Providing & fixing WPC (Wood Plastic Composite) doors frame (size 100mm x 50mm thick) complete. {100mm x 50mm Frame}, Dark Wooden Texture.	1	-	-	-	264.2	m			

Building Works	65	WW0717	**uPVC Window (with wire mesh): {BSB Certified Brand}:** Providing, fixing and installation of 2.5-track, UPVC sliding windows including wire mesh, 88mm wide, 5mm clear glass with hardware fittings - EPDM gaskets, U- groove roller, Aluminium track, Fastner nut, interlock, touch lock and wool pile, complete. {Textured Window}. Quality shall be verified by the concerned site engineer.	1	-	-	-	215.44	sq. m			
Building Works	66	AR - 07	**Fabricated & Built-up False Ceiling Frame Work:** Providing and fixing fabricated false ceiling supporting framework made out of approved G.I. sections consisting of Ceiling Section 80 mm x 26 mm x 0.5 mm thick x 12 ft long, Ceiling Intermediate Section 45 mm x 15 mm x 0.9 mm thick x 12 ft long, Ceiling Perimeter Channel 28 mm x 30 mm x 20 mm x 0.5 mm thick x 12 ft long, Ceiling Angle 25 mm x 10 mm x 0.5 mm thick x 12 ft long, Rawl Plug 8 mm dia x 45 mm long, Soffit Cleat 27 mm x 37 mm x 25 mm x 1.6 mm thick, Connecting Clips 2.64 mm thick, Metal Screws 4.2 mm x 13 mm, M-6 Nuts & Bolts, hangers, braces and all other necessary accessories. Framework to be fabricated in built-up sections, frames and truss-type supports, including measuring, marking, cutting, bending, drilling, punching, screwing, riveting or bolting as required, hoisting to proper level, aligning, leveling, erecting and securely fixing in position with approved fasteners and hardware, complete in all respects, ready to receive gypsum board / false ceiling boards / ceiling panels.	1	-	-	-	658	m			
Building Works	67	WW0082	**Wall and ceiling Linings {Gypsum Board}:** Providing and fixing 15mm thick to frames (wall or ceiling) Gypsum plaster board including finishing of joints smooth complete (excluding cost of frame).	1	-	-	-	137.01	sq. m			
Building Works	68	AR -09	**WPC Wall Panel {Louvers}**		Area							
			Stage Wall of Conference Wall	1	6.2	3.2		6.2	sq. m			

Building Works	69	SW0110	**Stainless Steel (Grade 304) Railing:** Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc… including welding, grinding, buffing, polishing and making curvature (wherever required) and fittings the same with necessary stainless steel nuts and bolts complete, i/e fixing railing with necessary accessories and stainless steel dash fasteners, stainless steel bolts etc, of required size on the top of the floor or the side of waist slab with suitable arrangement as per approval of engineers in charge.	1	-	-	-	39.88	kg			
Building Works	70	SW0022	**Fabricated & Built-up Sections:** 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}.	1	-	-	-	7870.48	kg			
Building Works	71	SW0090	**Eaves board plate:** Providing, making and fixing M.S. straps, flats, sole plates etc. {Length x 0.25 x 0.5mm thick) including cutting, welding, fixing and completing with neat primer finish.	1	-	-	-	1644.16	kg			
Building Works	72	AR -16	**SS Window Curtain Rod:** Providing & Fixing of SS Window Curtain Rod including trimming of edge and fixing with clamps and fasteners.	1	-	-	-	120.6	m			
Building Works	73	AR - 08	**HPL Board for Toilet:** Supplying and installation of 18mm thick HPL sheets with SS304 hardware & SS304 sections including accessories like Top rail, U-section, Edge Section, Corner profile and Legs(minimum 5mm thickness for sections).	1	-	-	-	38.07	sq. m			
Building Works	74	RF0004	**Roofing Sheet: {Shall be BSB Certified Brand}.** Providing & fixing Pre-Painted Galvalume (PPGL) sheeting, including necessary accessories for fixing sheet (excluding the cost of purlins, rafter and trusses) - 25g,0.5mm thick.	1	-	-	-	549.34	sq. m			
Building Works	75	AR -10	**PPGL Liner Sheet:** Providing & Fixing of PPGL Liner Sheet for Roof soffits {Wooden Texture} to the soffits with complete finish excluding the cost of framing and trusses.	1	-	-	-	127.2	sq. m			
Building Works	76	RF0007	Providing & fixing 600 mm ridges or hips in Pre - Painted Galvanised Iron (PPGI) sheets, including bolts, hooks and nuts 8mm dia G.I limpet and bitumen washers for connection. {25g. (0.50mm)}	1	-	-	-	79.9	m			
Building Works	77	RF0012	Providing & fixing 600 mm overall width Pre-Painted Galvalume (PPGL) gutter, including brackets, bolts, nuts, washers & rain water pipes connections, excluding the cost of pipes - 25 g sheet	1	-	-	-	85	m			

Building Works	78	RF0190	**Rain Gutter Pipe:** Providing and fixing on wall face single socketed rigid PVC (Working Pressure 4kgf per sq.cm) rain water pipes including jointing with seal ring leaving 10 mm gap for thermal expansion- complete.{75mm dia }	1	-	-	-	17.5	m			
Building Works	79	RF0195	Providing and fixing on wall face PVC coupler for rigid rain water pipes including jointing with seal ring leaving 10 mm gap for thermal expansion - complete {75 mm}	1	-	-	-	6	Each			
Building Works	80	SM0026 + SM0035	**CRM on wall:** Providing &laying Coursed Rubble Masonry with hard stone hammer-dressed in foundation & plinth. {In cement mortar 1:4 }	1	-	-	-	133.56	sq. m			
Building Works	81	SM0026 + SM0036	Extra for C.R. masonry with hard stone in superstructure above floor 2 level	1	-	-	-	132.54	sq. m			
Building Works	82	FL0160	**Kota Stone Cladding:** Providing & laying Kota stone flooring over 20mm thick base of cement mortar 1:4, jointed with grey cement slurry mixed with pigment where necessary, rubbing & polishing complete. {20mm}	1	-	-	-	6.48	sq. m			
Building Works	83	AR -11	**Room Signage board:** Providing and fixing room signage/name plate made of approved quality sheet plate backing with laser-cut/acrylic raised letters fixed over base plate, including border frame, adhesive, studs/screws, spacers and all necessary accessories complete as per approved design and direction of Engineer-in-Charge. {Plastic sheet of dimension: 300 x 150 x 5mm thick}.	1	-	-	-	51	Each			
Building Works	84	WW0645	Providing & fixing brass tower bolt (barrel type) with necessary screws etc. complete {250mm }	1	-	-	-	51	Each			
Building Works	85	WW0630	**Kicking plate:** Providing & fixing anodised aluminium kicking plate, 4mm thick with necessary aluminium screws etc. complete.	1	-	-	-	16.5	sq. m			
Building Works	86	AR -12	**Cylindrical Door Knob:** Providing and fixing approved quality cylindrical keyed door knob lockset in brass finish colour, complete with inside and outside knobs, cylinder mechanism, latch bolt, strike plate, keys, screws and all necessary accessories, fixed to timber/metal door shutter as per manufacturer's specifications and direction of the Engineer-in-Charge.	51	-	-	-	51	Each			
Building Works	87	WW0665	Providing & fixing brass handle with necessary screws etc. complete {150mm}.	102	-	-	-	102	Each			

Building Works	88	AR -13	**Glass Sign Board:** Providing and fixing approved quality glass sign board made of 10mm thick toughened clear glass with polished edges, complete with approved graphics/stickers, stainless steel/brass finish spacers or studs, supporting accessories, screws, fittings and all necessary hardware, fixed in position as per approved design, drawing and direction of the Engineer-in-Charge.	1	-	-	-	1.2	sq. m			
Building Works	89	AR -14	**FIRE EXTINGUISHERS:** Supply, erection, testing & commissioning of 4 Kg ABC (Powder Type) Fire Extinguisher. In HP Mild Steel Cylinders ISI marked fitted with pressure indicating gauge, internal discharge tube, squeeze lever type valve, discharged nozzle, suspension bracket, conforming to IS: 15683 duly charged with ABC powder (Mono Ammonium Phosphate) conforming to IS: 14609 and pressured by Nitrogen suitable for operating .on 30ºC to + 55ºC. (4 years maintenance free) complete in all respect.	10	-	-	-	10	Each			
Building Works	90	AR -14	**18mm thick play for cabinets:** Providing and fixing 18 mm thick approved quality plywood for laboratory and counter cabinets, including cutting, edge finishing, necessary screws, nails, adhesives, supports, fittings and fixing complete as per approved drawing and direction of the Engineer-in-Charge.	1	-	-	-	124.863	sq. m			
Building Works	91	AR -15	**Sunmica laminate:** Providing and fixing approved shade and texture decorative Sunmica laminate of 1.0 mm thickness on exposed surfaces of plywood cabinet.	1	-	-	-	134.321	sq. m			
Building Works	92	RC0108	**Formwork up to plinth Level:** Providing & fixing centering and shuttering (formwork) using Shuttering Plywood, including Timber frame and timber strutting, propping with complete form tie system etc. and removal of formwork - *Formwokr of PCC shall be repeated atleast twice at footing.*	1	-	-	-	296.92	sq. m			
Building Works	93	RC0109	**Form Work for Shear Wall:** Providing & fixing centering and shuttering (formwork) using Shuttering Plywood, including Timber frame and timber strutting, propping with complete form tie system etc. and removal of formwork –{Ply Shutter for Walls (any thickness), pilasters, buttresses, string course etc. including supports}.	1	-	-	-	455.36	sq. m			

Building Works	94	RC0111	**Form Work for Columns:** Providing & fixing centering and shuttering (formwork) using Shuttering Plywood, including Timber frame and timber strutting, propping with complete form tie system etc. and removal of formwork – {Columns, pillars, post, struts, etc.}. Additionally, the same column shutters shall be used for jamthok column & prop shuttering.	1	-	-	-	680	sq. m			
Building Works	95	RC0113	**Form Work for Slabs:** Providing & fixing centering and shuttering (formwork) using Shuttering Plywood, including Timber frame and timber strutting, propping with complete form tie system etc. and removal of formwork –{Suspended floor, roof, landing, shelves and their supports, balconies, chajjas, etc.}. The same shuttering shall be used for sides of beams, counter tops tables and RCC bands & Jamthok slab.	1	-	-	-	1510.2	sq. m			
Building Works	96	WW0020	**Timber stages:** Providing & fixing joists, including hoisting, applying wood preservative on unexposed surfaces.	1	-	-	-	0.703125	cu. m			
Building Works	97	WW2073	**Timber Flooring Stage:** Providing & fixing 50mm thick, half-lapped Thinzhi enta(Timber flooring)/Nampa enta (Ceiling plank) including fixing with iron screws etc. complete, excluding the cost of frame.	1	-	-	-	12.5	sq. m			
Building Works	98	WW0005	**Louver Wall Frame:** Providing & fixing in position dressed wood work in frames of doors, windows, clerestory windows and other frames, wrought and framed.	1	-	-	-	0.03	cu. m			
Building Works	99	SM0005	**RMM Wall at foundation:** Providing & laying Random Rubble Masonry with hard stone in foundation & plinth. { In cement mortar 1:4}	1	-	-	-	36.25	cu. m			
Building Works	100	CG0001	**Clearing and Grubbing:** Clearing grass including removal of rubbish within 50m of site.	1	-	-	-	30	sq. m			
Building Works	101	AR-01{b}	**Dumping of excavated soils:** Carriage of materials - mechanical transportation including loading, unloading and stacking of dry earth. Volume shall be eligible as per BSR - 2025, for dry earth.	1	-	-	-	690	cu. m			
TOTAL AMOUNT												

Building Works	102	OHS001	**OHS at construction site:** Incorporation of Occupational Health and Safety measures at construction sites, including Insurance, Personal Protective Equipment (PPE), First Aid kits, Boundary Fencing, Scaffolding, Safety nets, Traffic management, signage etc as listed in the specifications. The standards and specifications for the Insurance, OHS materials and (or) equipment shall comply with the Labour and Employment Act - 2007, Regulation on Occupational Health, Safety and Welfare - 2012, and other relevant national documents. All OHS items will remain the property of the bidder upon completion of the project.	-	-	-	-	-	L/s			
Building Works	103	OHS002	**Temporary Living Accommodation:** Providing temporary living accommodation which includes bed room, kitchen, and toilet cum bathroom including proper water supply and electricity as per the drawing and temporary living accommodation standards. The accommodation facilities must be dismantled and cleaned upon the completion of project. All reusable materials of the accommodation facilities will remain as the property of the bidder upon completion of the project.	-	-	-	-	-	L/s			
Total Amount of All Civil Works													
			5% GST										
			GRAND TOTAL (Inclusive of GST)										

Section 2: Drawings (Architectural, Structural, Sanitation and Electrical)

ARCHITECTURE DRAWING

PROPOSED CONSTRUCTION OF S+G+3+J SPS OFFICE

AGENCY:

BFDA

BHUTAN FOOD AND DRUG AUTHORITY

DESIGNED & DEVELOPED BY: **RoID-PHUNTSHOLING**

APRIL 2026

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DRAWING SYMBOLS

SYMBOLS	DETAIL
	Building Section
	Wall Section
	Detail Section
	Exterior Elevation
	Elevation Target
W1	Window Number
D3	Door Number
ROOM NAME +0.00	Room Name / Levels
N	North Arrow
	Column Grid and Bubbles
	Break Line



REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

(ROID)

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

AGENCY

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DRAWING TITLE

SECTION Y-Y

SCALE: #########

3/13/2026

DESIGN & DRAWN BY:

SAMTEN NORBU (ENGINEER)

CHECKED BY:

TENZIN RABGAY (ARCHITECT)

APPROVED BY:

GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

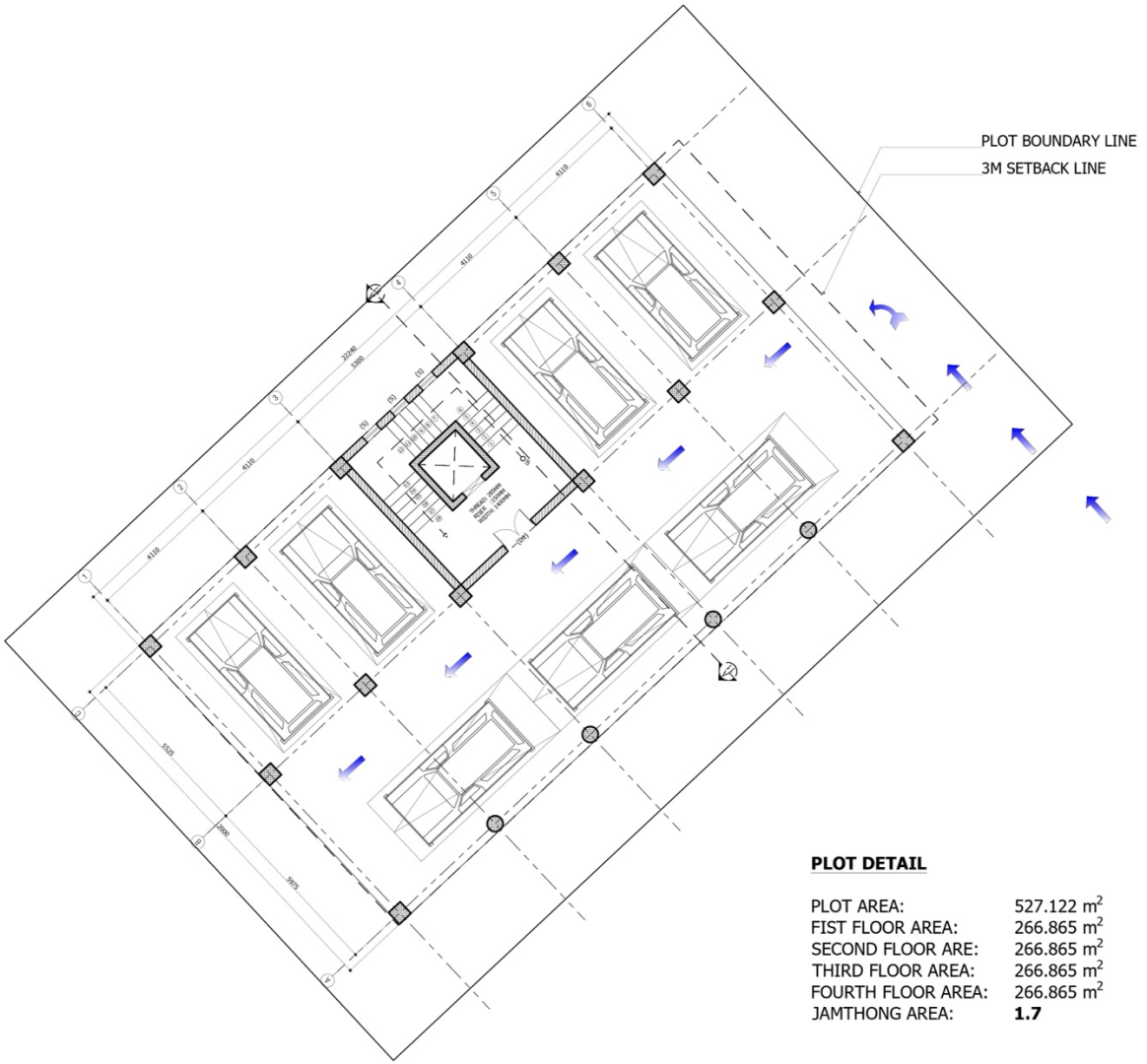
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PAGE

01


BUILDING LINE
3M SETBACK LINE
PLOT BOUNDARY LINE
PROPOSED BUILDING
PLOT DETAIL
PLOT AREA: 527.122 m²
FIST FLOOR AREA: 266.865 m²
SECOND FLOOR ARE: 266.865 m²
THIRD FLOOR AREA: 266.865 m²
FOURTH FLOOR AREA: 266.865 m²
JAMTHONG AREA: 1.7
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[ROID]
PROJECT TITLE
PROPOSED S+G+3+J SPS OFFICE
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DRAWING TITLE
SITE PLAN
SCALE: 1:150
3/13/2026
DESIGN & DRAWN BY:
SAMTEN NORBU (ENGINEER)
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PAGE
02



PLOT DETAIL

PLOT AREA:	527.122 m²
FIST FLOOR AREA:	266.865 m²
SECOND FLOOR ARE:	266.865 m²
THIRD FLOOR AREA:	266.865 m²
FOURTH FLOOR AREA:	266.865 m²
JAMTHONG AREA:	**1.7**

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REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

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DRAWING TITLE

BUILDING LAYOUT PLAN

SCALE: 1:110

3/13/2026

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SAMTEN NORBU (ENGINEER)

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TENZIN RABGAY (ARCHITECT)

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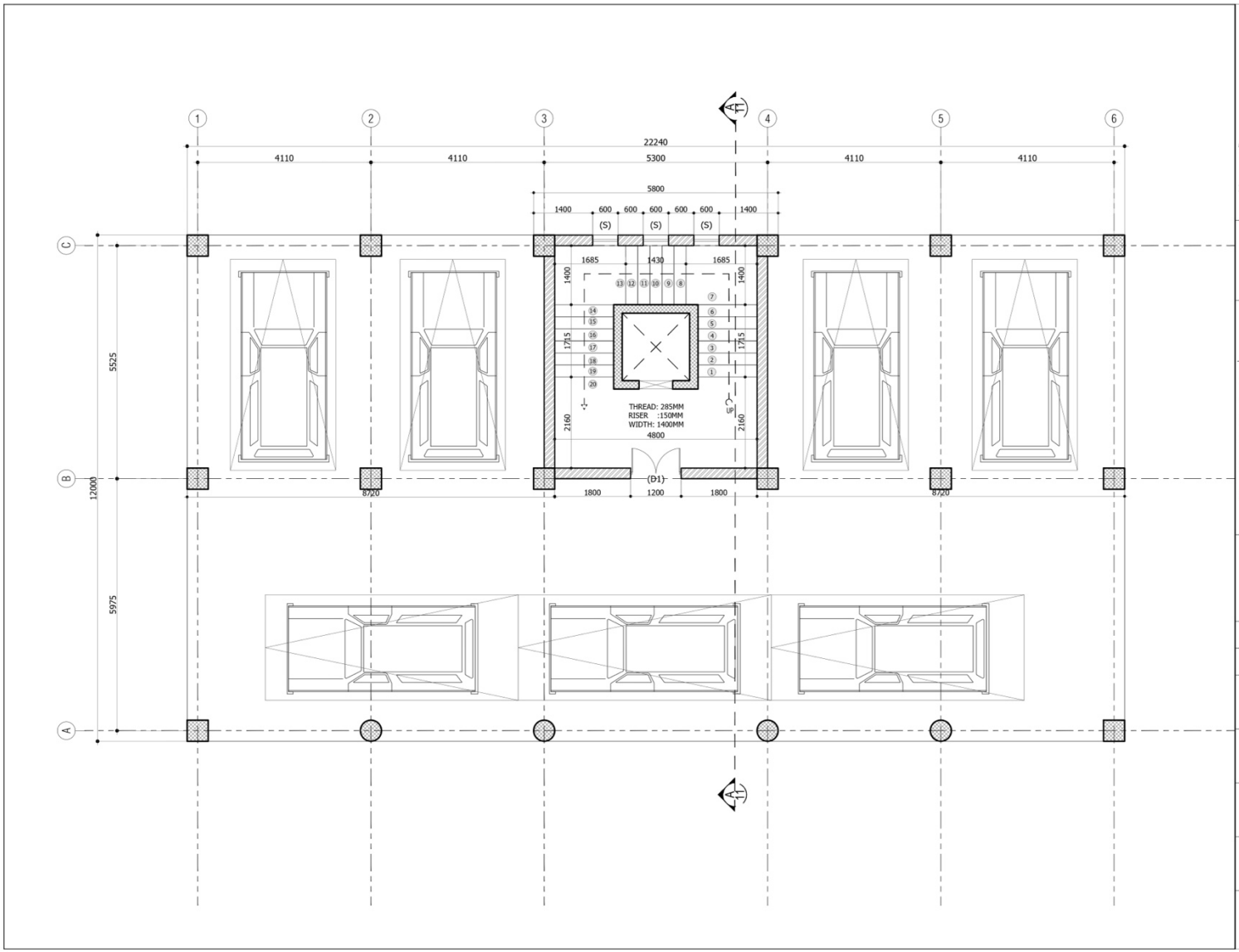
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DRAWING TITLE

STILT PLAN

SCALE: 1:70

3/13/2026

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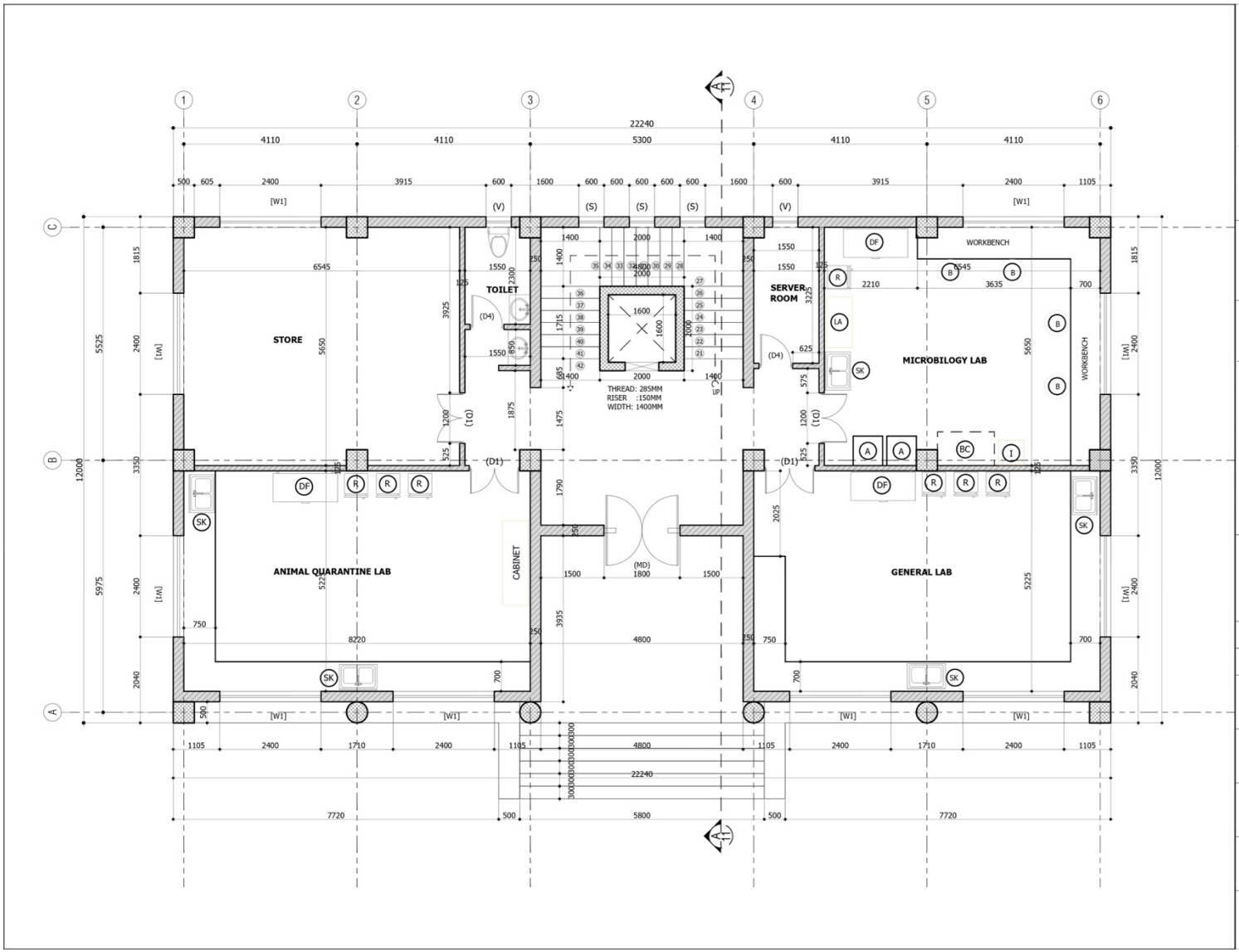
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DRAWING TITLE

GROUND FLOOR PLAN

SCALE: 1:70

3/13/2026

DESIGN & DRAWN BY:

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TENZIN RABGAY (ARCHITECT)

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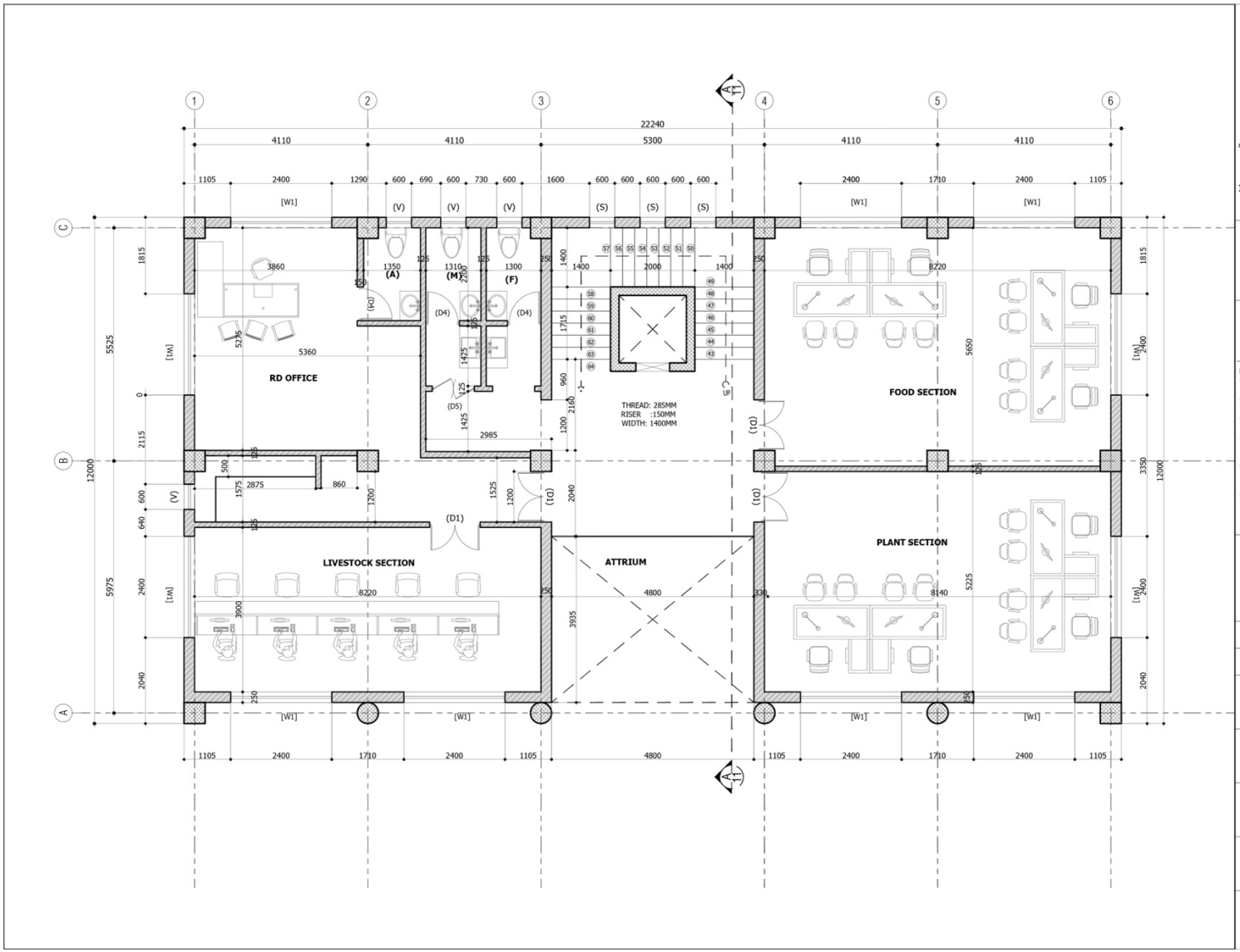
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DRAWING TITLE

FIRST FLOOR PLAN

SCALE: 1:70

3/13/2026

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TENZIN RABGAY (ARCHITECT)

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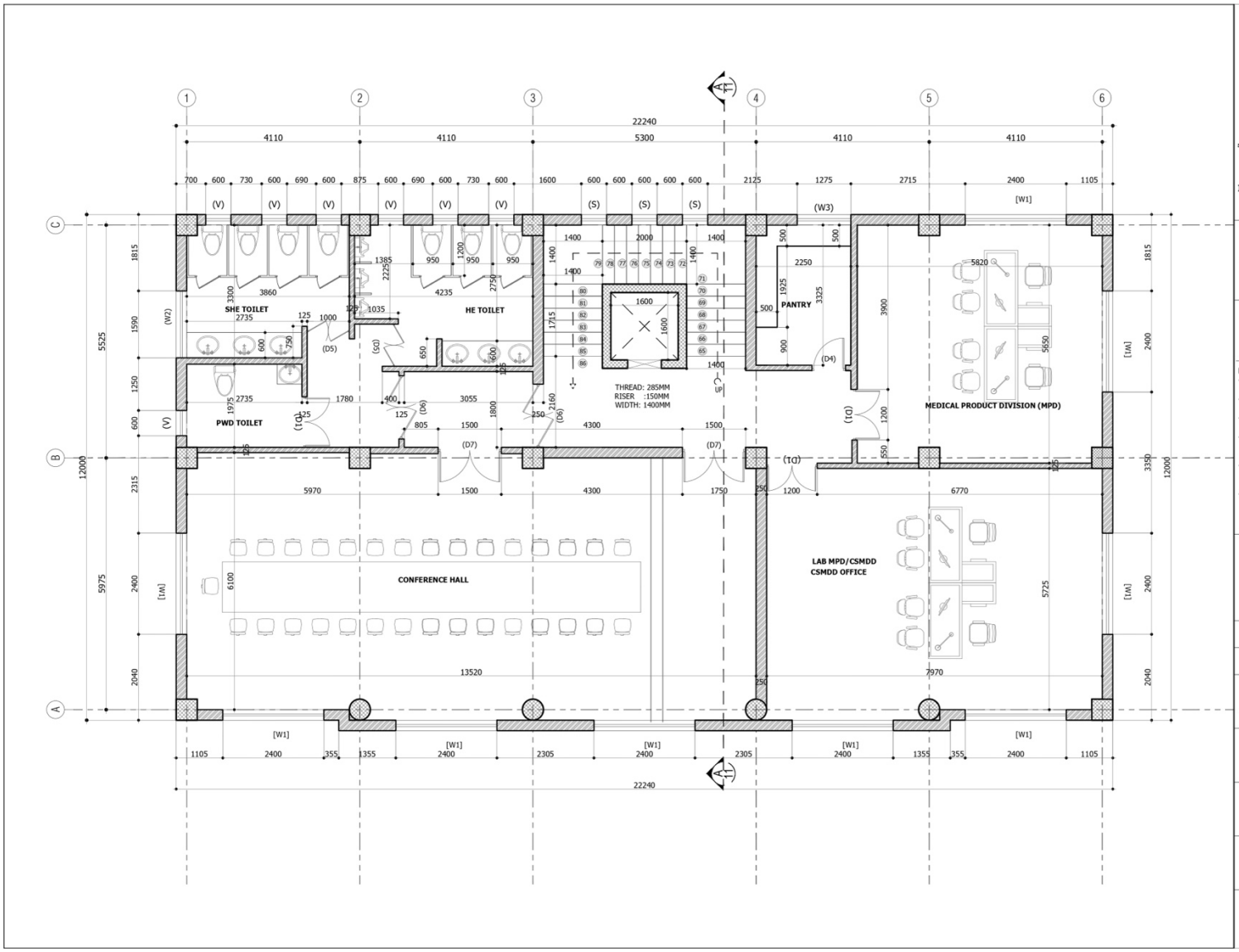
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DRAWING TITLE

SECOND FLOOR PLAN

SCALE: 1:70

3/13/2026

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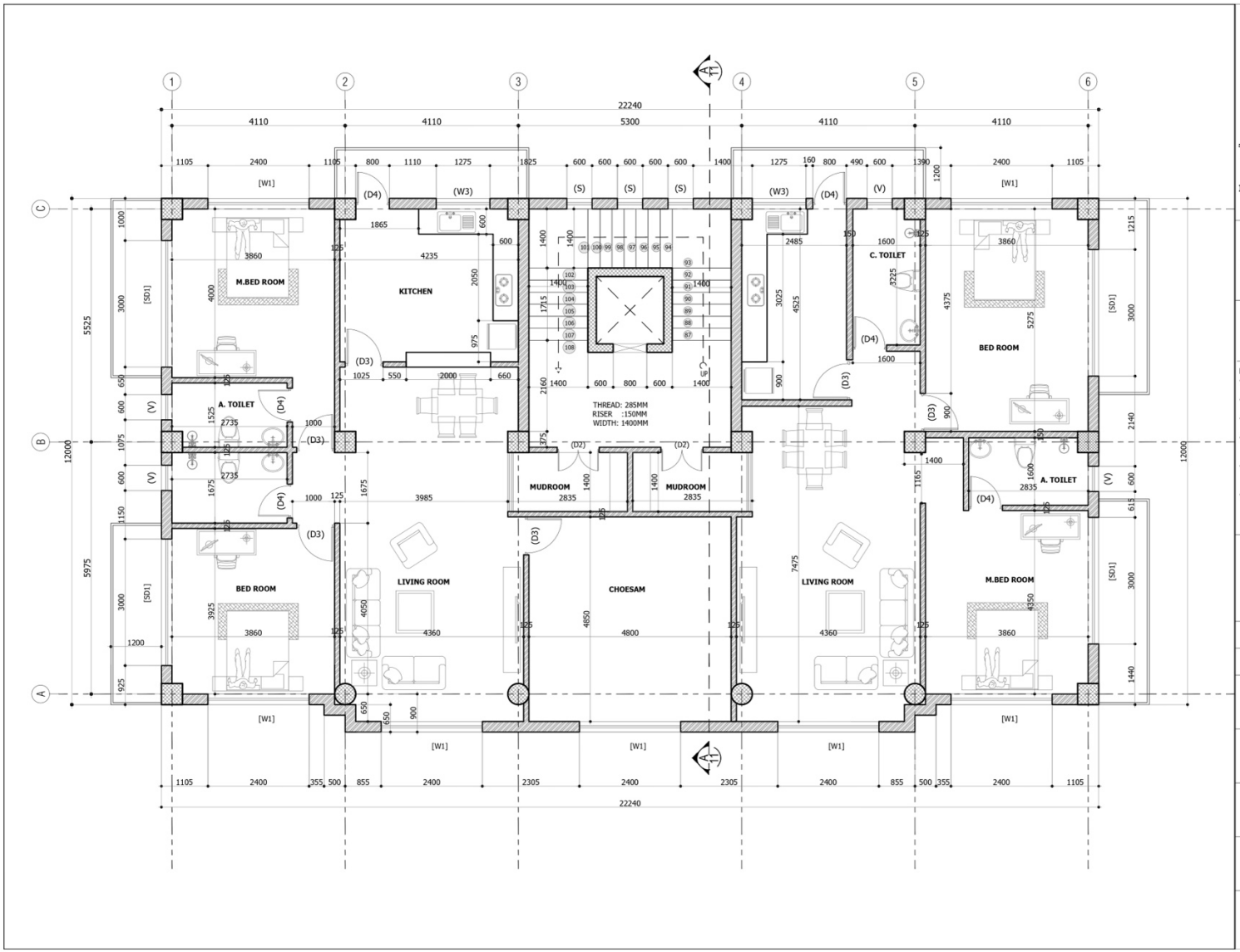
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DRAWING TITLE

THIRD FLOOR PLAN

SCALE: 1:70

3/13/2026

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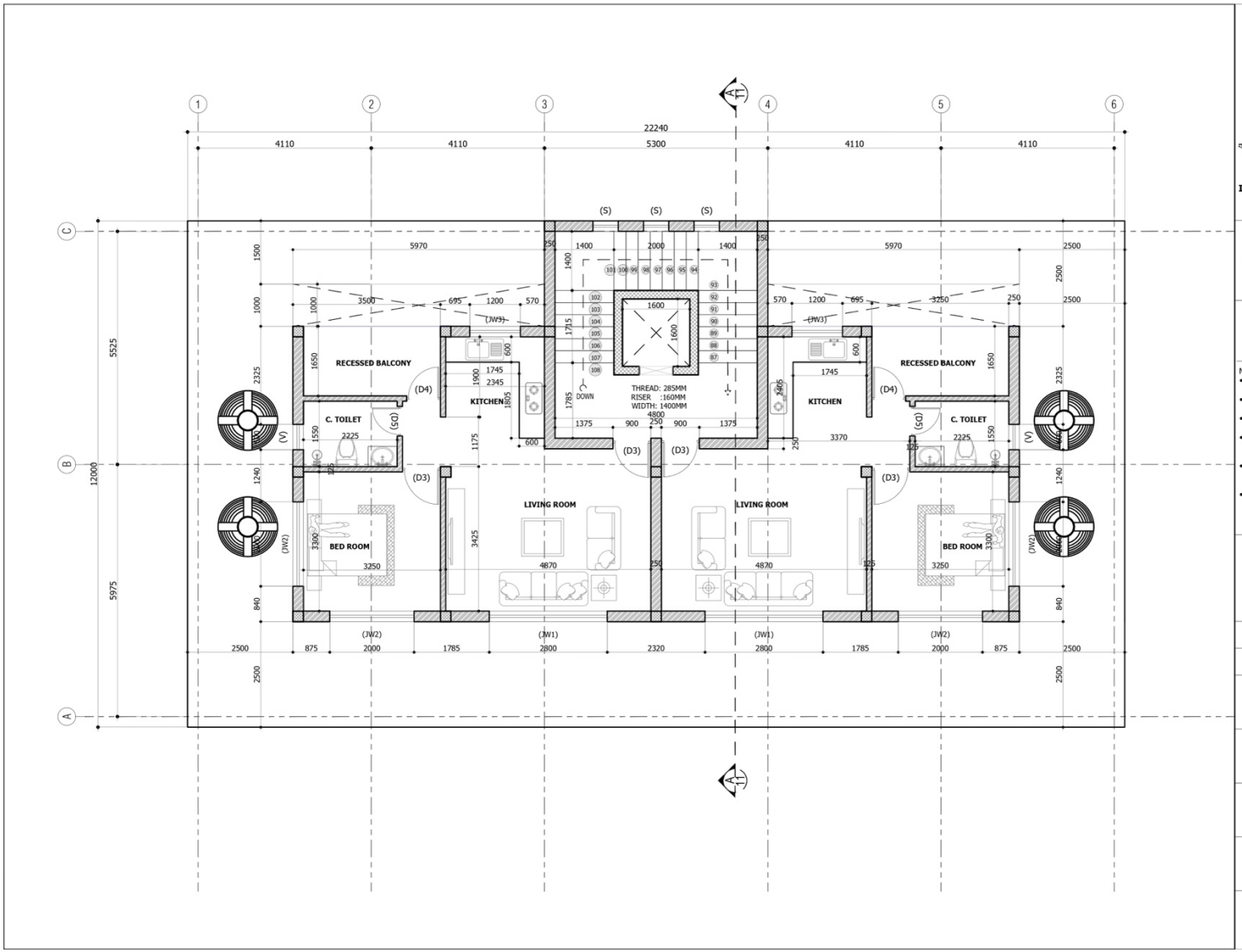
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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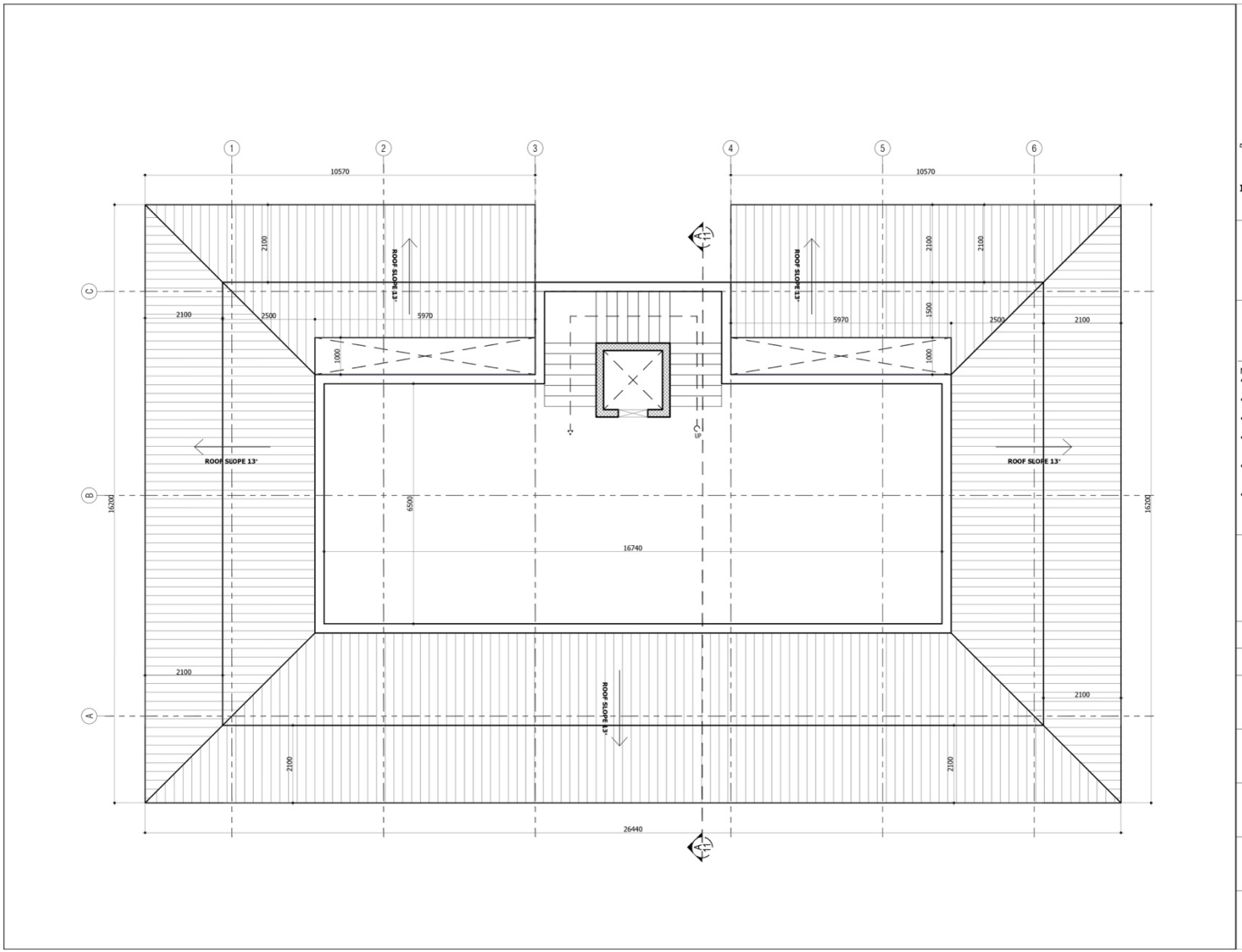
DESIGNATION **(BFDA)**

PAGE

08


22240
4110
4110
5300
4110
4110
5970
5970
RECESSED BALCONY
RECESSED BALCONY
KITCHEN
KITCHEN
C. TOILET
C. TOILET
LIVING ROOM
LIVING ROOM
BED ROOM
BED ROOM
THREAD: 285MM
RISER :160MM
WIDTH: 1400MM
4800
DOWN
1600
(JW1)
(JW2)
(JW3)
(D3)
(D4)
(D5)
(S)
(V)

ཀཀཀ ཀཀཀ ཀཀཀ



ཁིམ་སྡེའི་མགོ་ཆས་གོང་འཕེལ་ལྟང་དོན་ཡིག་ཚང་།
ཀུན་ཚོགས་སྤྱི་ཚུལ།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

{ROID}

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

AGENCY

BFDA

NOTES:

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- ALL LEVELS GIVEN w.r.t. ±0.000 AS UNFINISHED LEVEL OF BUILDING.
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DRAWING TITLE

MAIN ROOF PLAN

SCALE: 1:80

3/13/2026

DESIGN & DRAWN BY:

SAMTEN NORBU (ENGINEER)

CHECKED BY:

TENZIN RABGAY (ARCHITECT)

APPROVED BY:

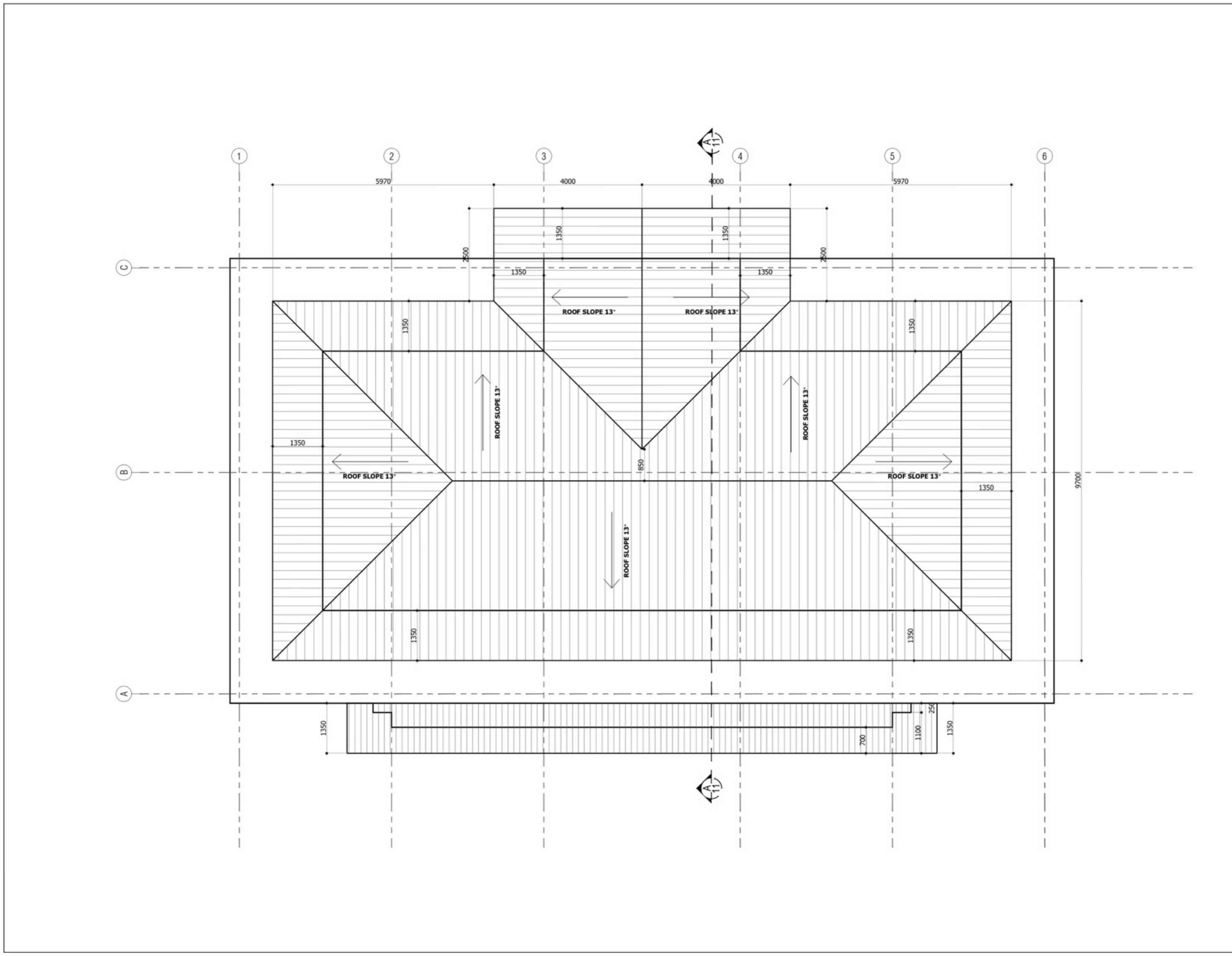
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

ENDORSED BY:

DESIGNATION **(BFDA)**

PAGE

10



གཞི་རྟེན་མཐོ་ཆས་གོང་འཕེལ་ལུང་ཕྱོགས་ཡིག་ཚང་།
ཕུན་ཚོགས་གླིང་།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

{ROID}

PROJECT TITLE

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DRAWING TITLE

JAMTHONG ROOF PLAN

SCALE: 1:80

3/13/2026

DESIGN & DRAWN BY:

SAMTEN NORBU (ENGINEER)

CHECKED BY:

TENZIN RABGAY (ARCHITECT)

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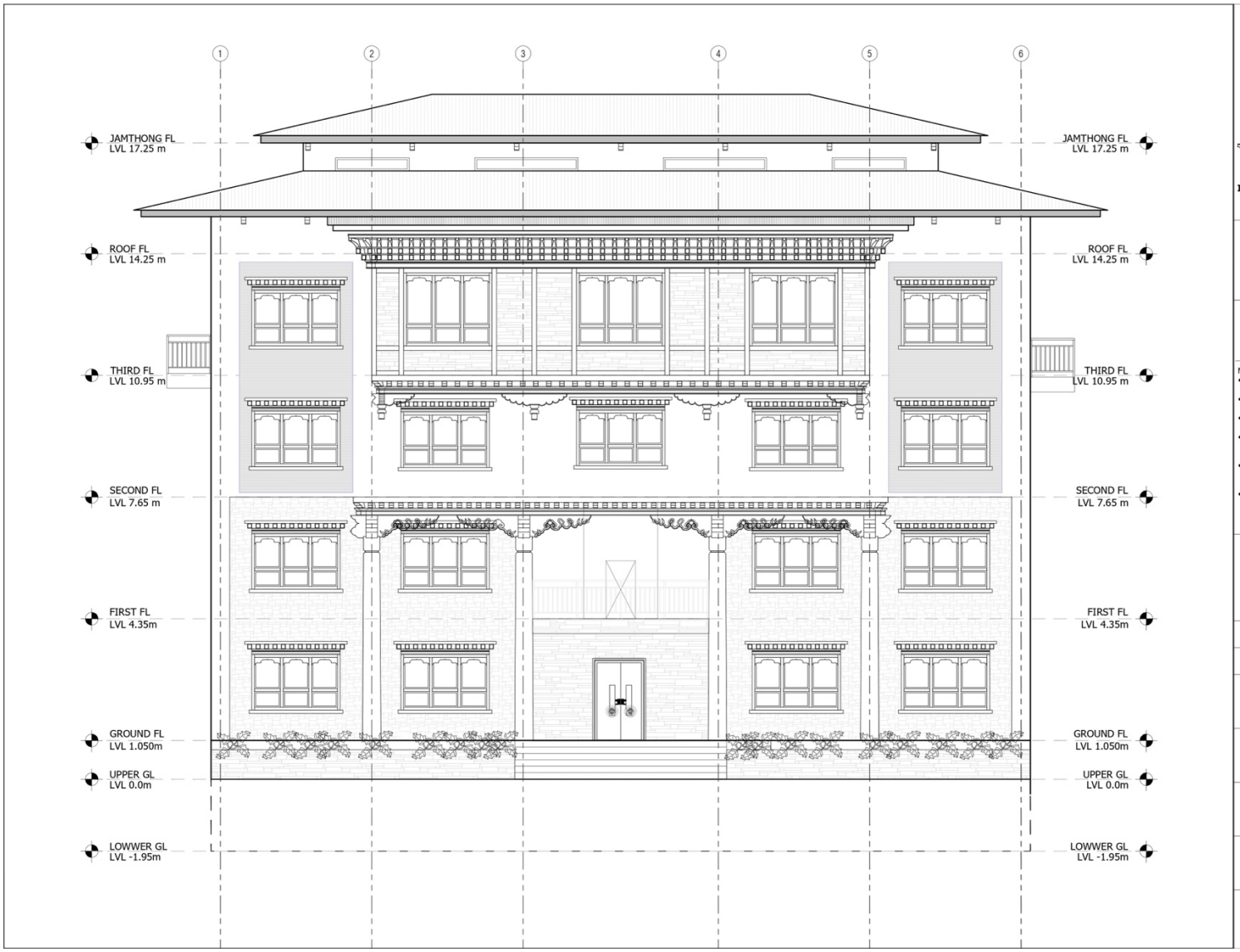
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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DESIGNATION **(BFDA)**

PAGE

11



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ལྷན་ཚོགས་སྨོན་།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

[ROID]

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

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DRAWING TITLE

FRONT ELEVATION

SCALE: 1:80

3/13/2026

DESIGN & DRAWN BY:

SAMTEN NORBU (ENGINEER)

CHECKED BY:

TENZIN RABGAY (ARCHITECT)

APPROVED BY:

GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

ENDORSED BY:

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PAGE

12



ག་ཚེ་སྙིན་མས་ཆུས་གོང་འཛེལ་ལང་བང་སྲོག་གཡོ་ཡིག་ཚང་།།
ཕྱོགས་ཚོགས་སྙིང་།།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

(ROID)

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

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DRAWING TITLE

REAR SIDE ELEVATION

SCALE: 1:80

3/13/2026

DESIGN & DRAWN BY:

SAMTEN NORBU (ENGINEER)

CHECKED BY:

TENZIN RABGAY (ARCHITECT)

APPROVED BY:

GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

ENDORSED BY:

DESIGNATION **(BFDA)**

PAGE

13



ཁིམ་སྡེའ་མགོ་ཚན་འཛེལ་ཡང་དོན་དོགས་པིཏ་ཚང་།།
ཀུན་ཚོགས་ལྷོད།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

{ROID}

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DRAWING TITLE

RIGHT SIDE ELEVATION

SCALE: 1:80

3/13/2026

DESIGN & DRAWN BY:

SAMTEN NORBU (ENGINEER)

CHECKED BY:

TENZIN RABGAY (ARCHITECT)

APPROVED BY:

GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

ENDORSED BY:

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PAGE

14



ཀུན་ཚོགས་སྐྱིད།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

[ROID]

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

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DRAWING TITLE

LEFT SIDE ELEVATION

SCALE: 1:80

3/13/2026

DESIGN & DRAWN BY:

SAMTEN NORBU (ENGINEER)

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TENZIN RABGAY (ARCHITECT)

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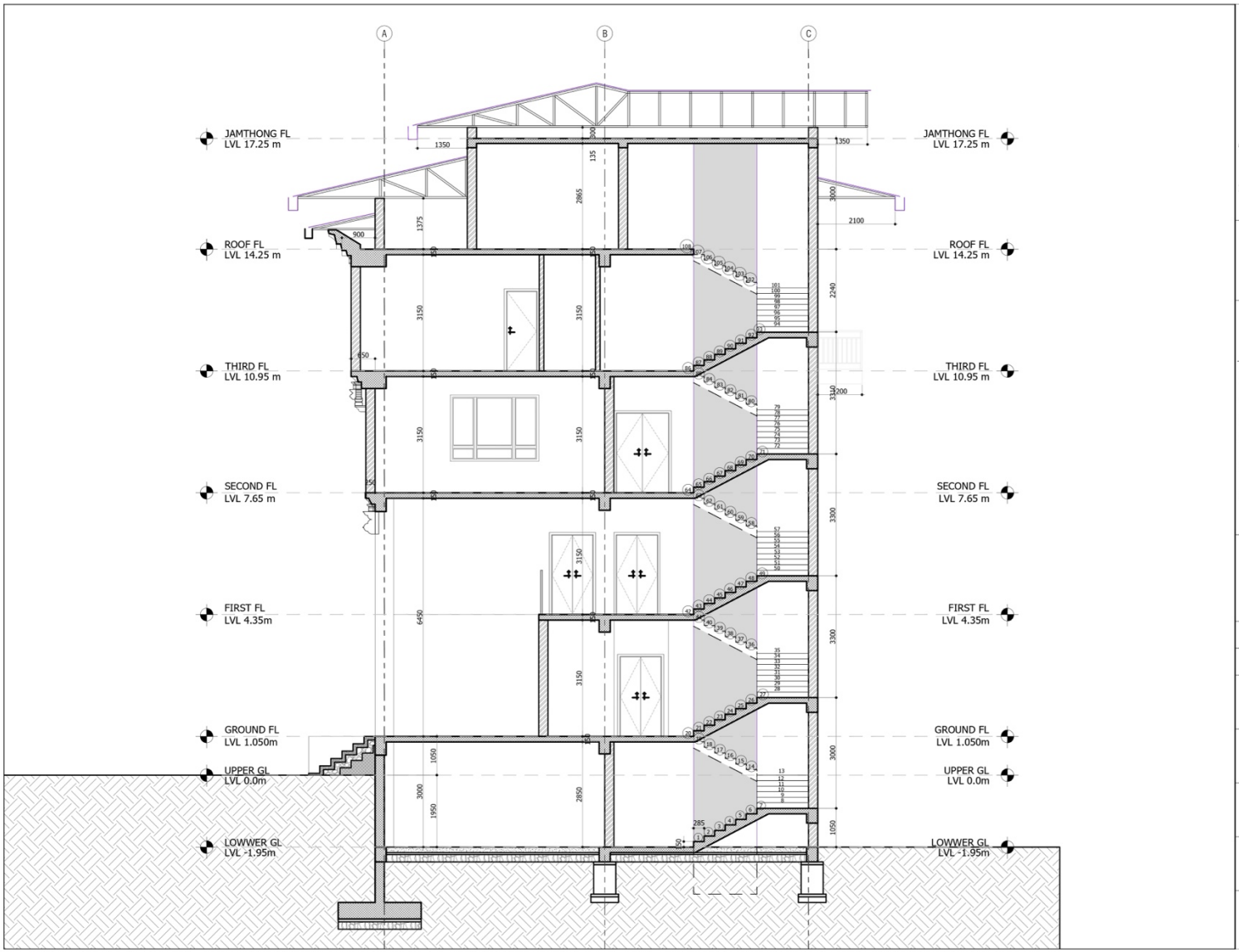
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

ENDORSED BY:

DESIGNATION **(BFDA)**

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15



ཁག་རྒྱན་མཁོ་ཚན་འཛེས་ལང་ཡང་ཏོག་ཡིག་ཚང་།
ཕུན་ཚོགས་གླིང་།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

(ROID)

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

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DRAWING TITLE

SECTION A-A

SCALE: 1:80

3/13/2026

DESIGN & DRAWN BY:

SAMTEN NORBU (ENGINEER)

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TENZIN RABGAY (ARCHITECT)

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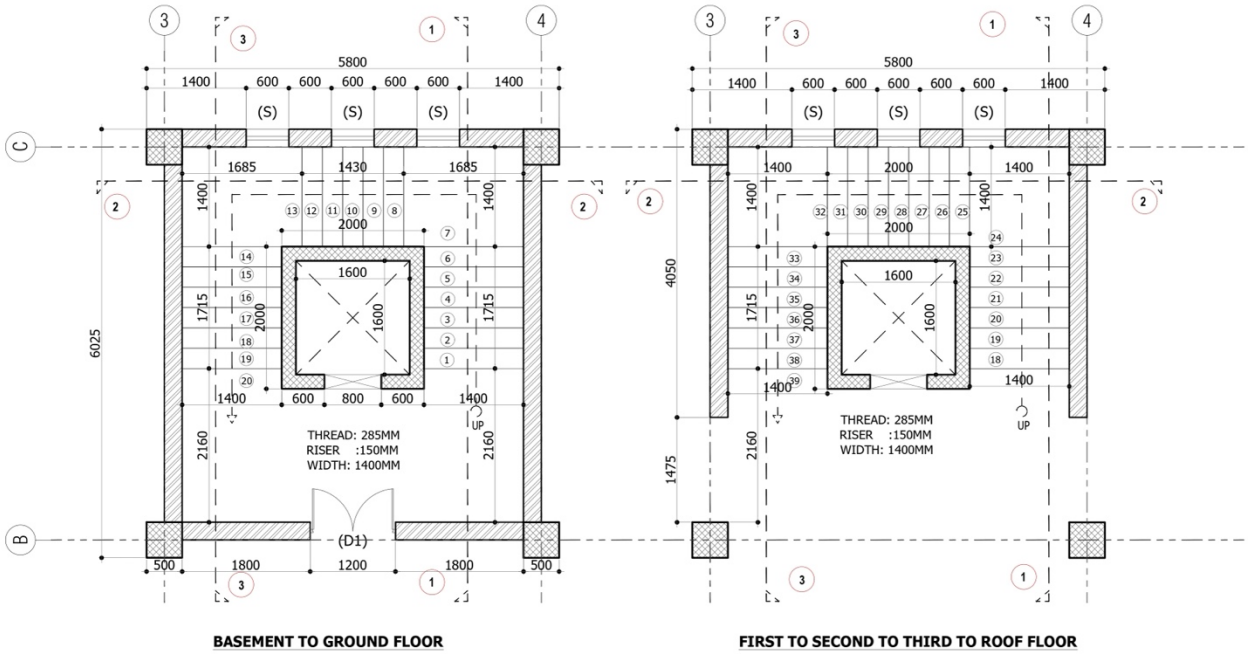
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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16



ག་ཞི་རྫོང་མགོ་ཚལ་འཛེལ་ཡང་ཡུང་ཐོག་ཡིག་ཚང་།
ཕུན་ཚོགས་ལྷུན།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING
(ROID)

PROJECT TITLE

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DRAWING TITLE

STAIRCASE DETAIL PLAN

SCALE: 1:50

3/13/2026

DESIGN & DRAWN BY:

SAMTEN NORBU (ENGINEER)

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TENZIN RABGAY (ARCHITECT)

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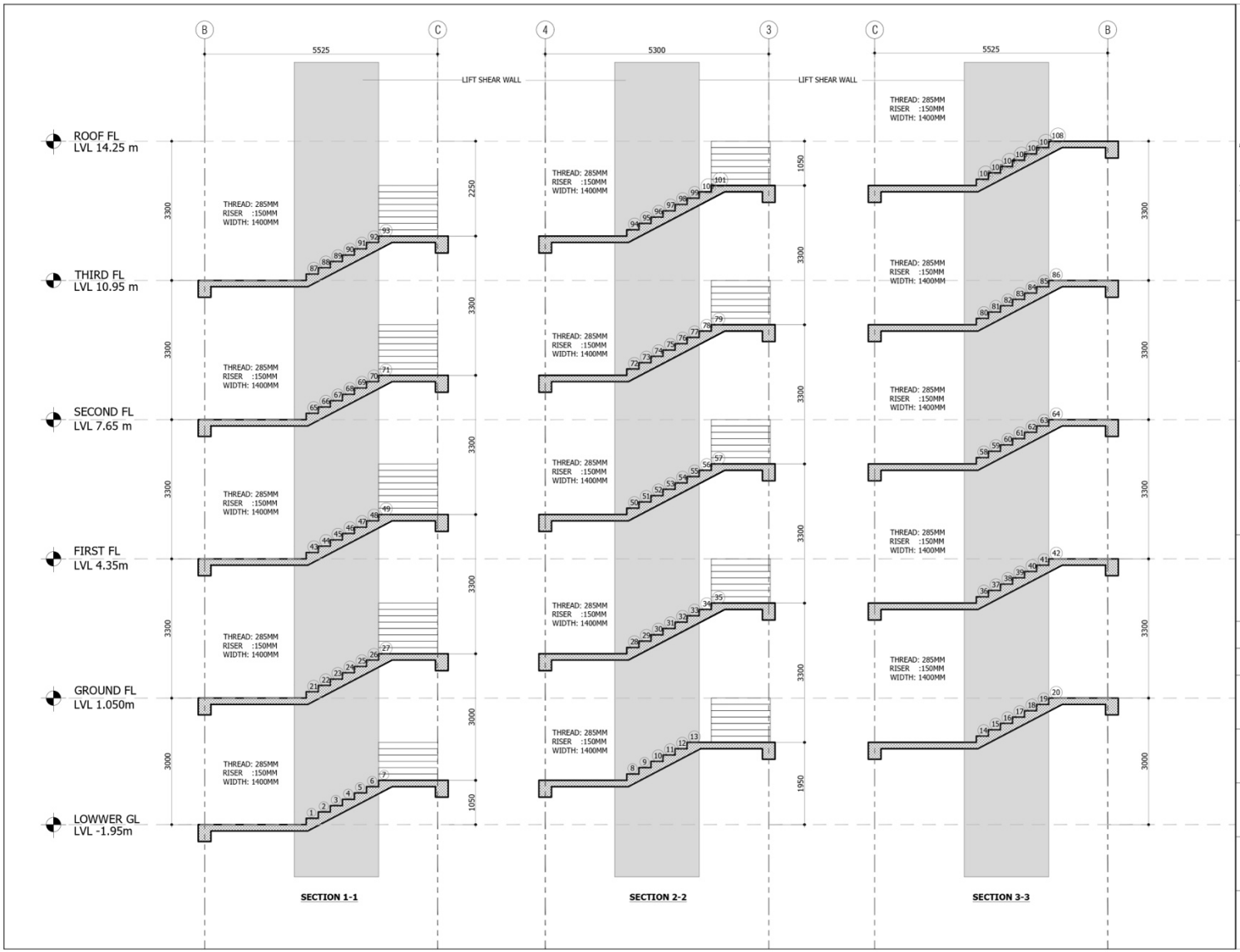
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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PAGE

17



REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING
(ROID)

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PROPOSED S+G+3+J SPS OFFICE

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DRAWING TITLE

STAIRCASE SECTION DETAIL

SCALE: 1:70

3/13/2026

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SAMTEN NORBU (ENGINEER)

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TENZIN RABGAY (ARCHITECT)

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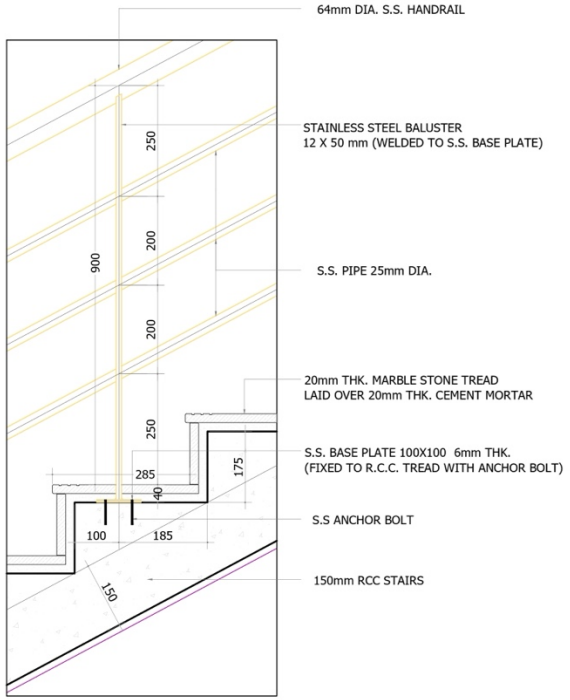
GANESH PRASAD CHAMLAGAI
(INTERIM HEAD)

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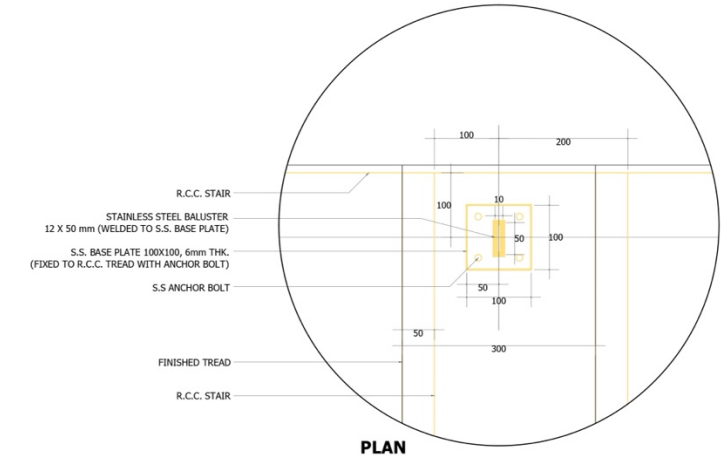
DESIGNATION **(BFDA)**

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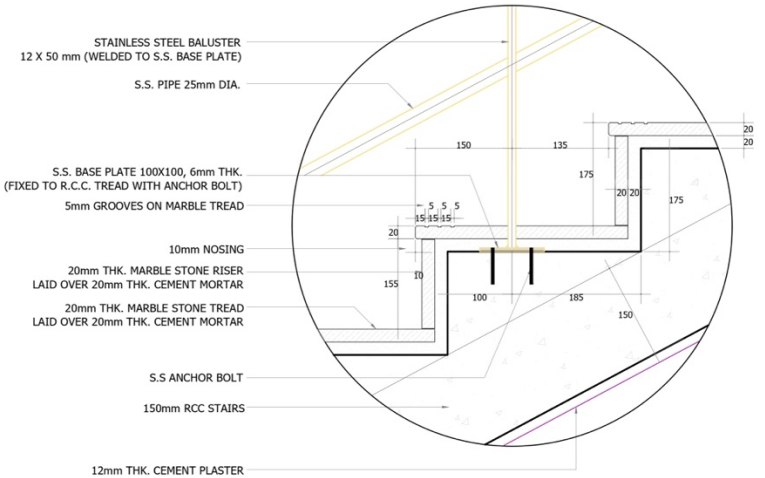
18



STAIRCASE DETAIL PART SECTION



PLAN
BALUSTER FIXING DETAIL



SECTION
BALUSTER FIXING DETAIL

ཀུན་ཏུ་ཚོགས་པའི།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

(ROID)

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

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DRAWING TITLE

STAIRCASE PART SECTION DETAIL

SCALE: 1:8

3/13/2026

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SAMTEN NORBU (ENGINEER)

CHECKED BY:

TENZIN RABGAY (ARCHITECT)

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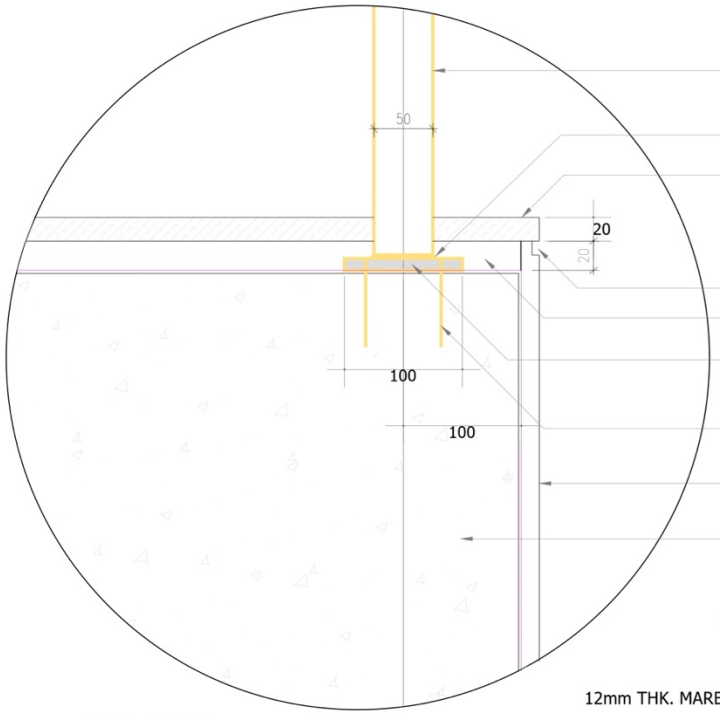
GANESH PRASAD CHAMLAGAI
(INTERIM HEAD)

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DESIGNATION **(BFDA)**

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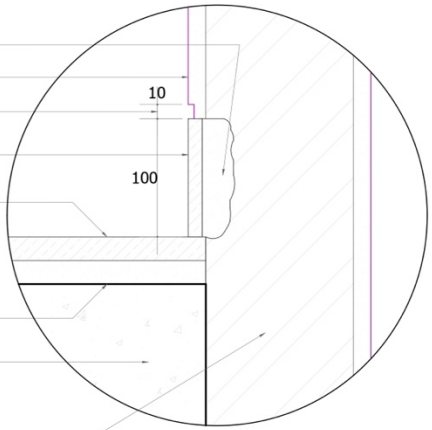
19



STAINLESS STEEL BALUSTER
12 X 50 mm (WELDED TO S.S. PLATE)
SS FLAT WELDED TO SS PLATE
20mm THK. MARBLE STONE TREAD
12mm GROOVE
20mm THK. MORTAR
S.S. BASE PLATE 100X100 6mm THK.
(FIXED TO R.C.C. TREAD WITH ANCHOR BOLT)
ANCHOR BOLT
15mm THK. PLASTER
R.C.C. STAIR

SECTION
BALUSTER FIXING DETAIL

MORTAR
15mm THK. PLASTER
12 mm GROOVE
12mm THK. MARBLE STONE SKIRTING
100mm HIGH
20mm THK. MARBLE STONE TREAD
20mm THK. MORTAR
RCC STAIRS
BRICK WALL



SKIRTING DETAIL

ཁག་ཐེའུ་མཁར་ཚན་བོང་འཕེལ་ལུང་བྱེའུ་ཁུལ་ཡིག་ཚང་།།
ཕུན་ཚོགས་གླིང་།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING
{ROID}

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

AGENCY

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DRAWING TITLE

BALUSTER & SKIRTING DETAIL

SCALE: 1:3

3/13/2026

DESIGN & DRAWN BY:

SAMTEN NORBU (ENGINEER)

CHECKED BY:

TENZIN RABGAY (ARCHITECT)

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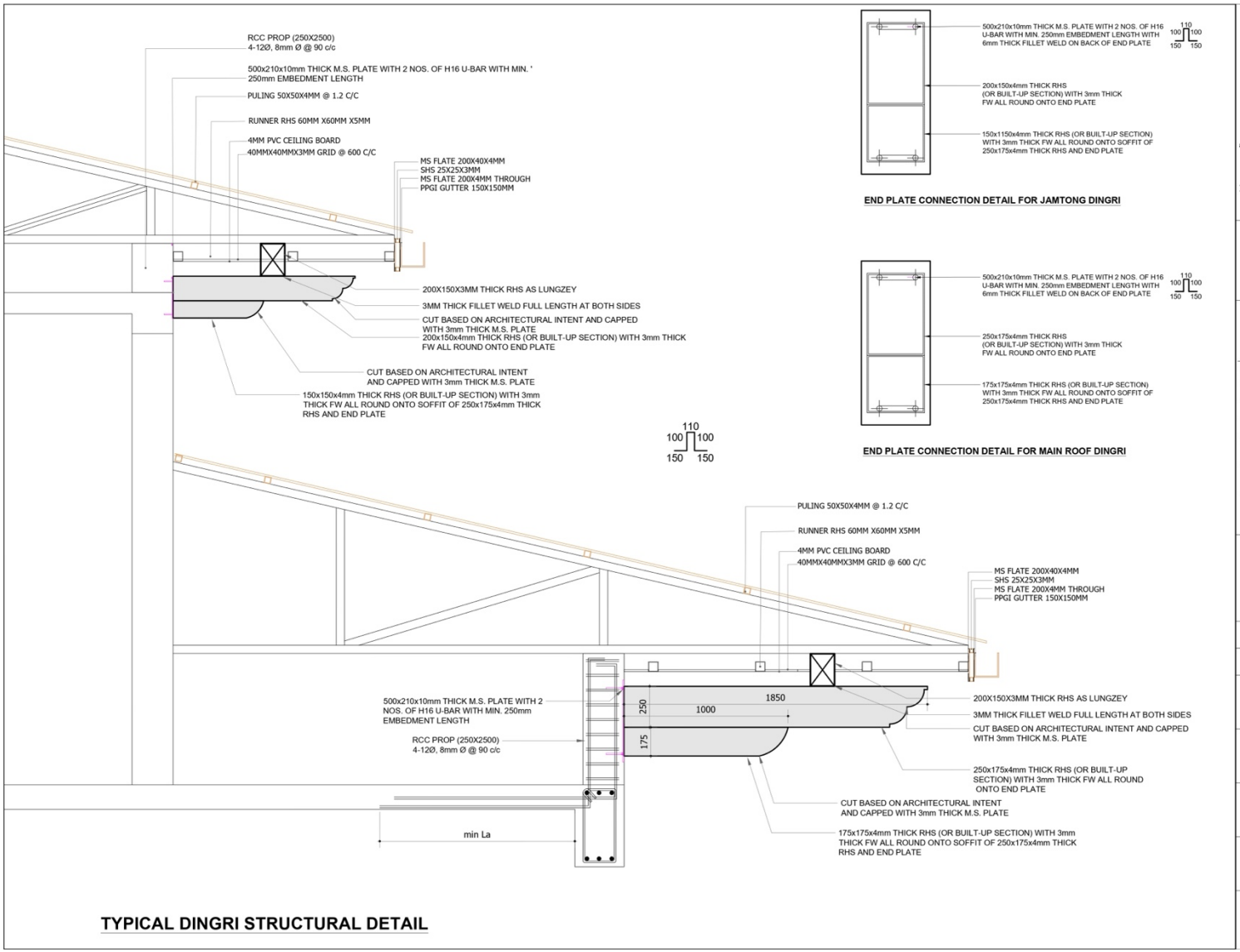
GANESH PRASAD CHAMLAGAI
(INTERIM HEAD)

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20



REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

(ROID)

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PROPOSED S+G+3+J SPS OFFICE

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DRAWING TITLE

DENGRI DETAIL

SCALE: 1:18

3/13/2026

DESIGN & DRAWN BY:

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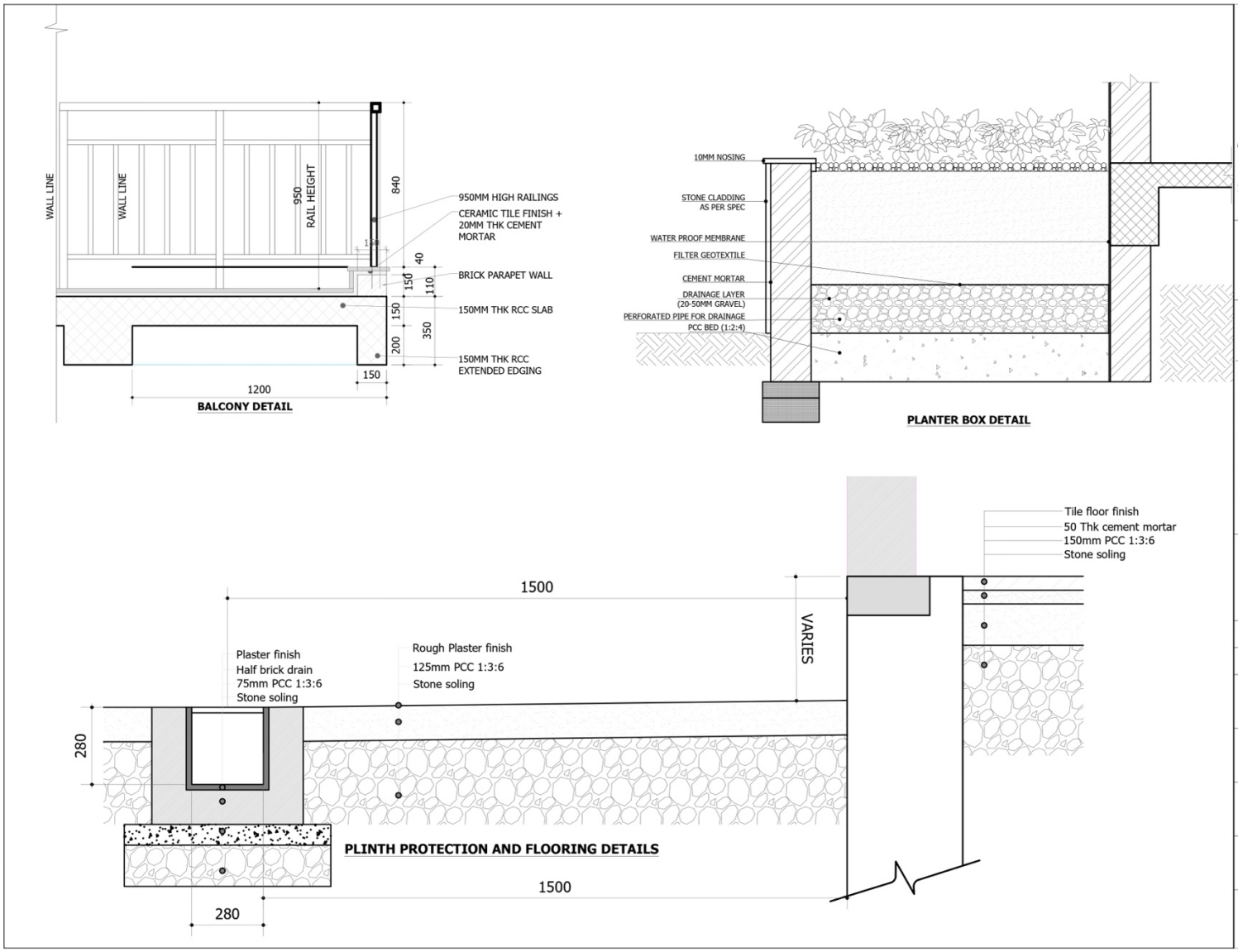
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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21



REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

[ROID]

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

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DRAWING TITLE

MISCELLANEOUS DETAIL

SCALE: 1:10.7

3/13/2026

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SAMTEN NORBU (ENGINEER)

CHECKED BY:

TENZIN RABGAY (ARCHITECT)

APPROVED BY:

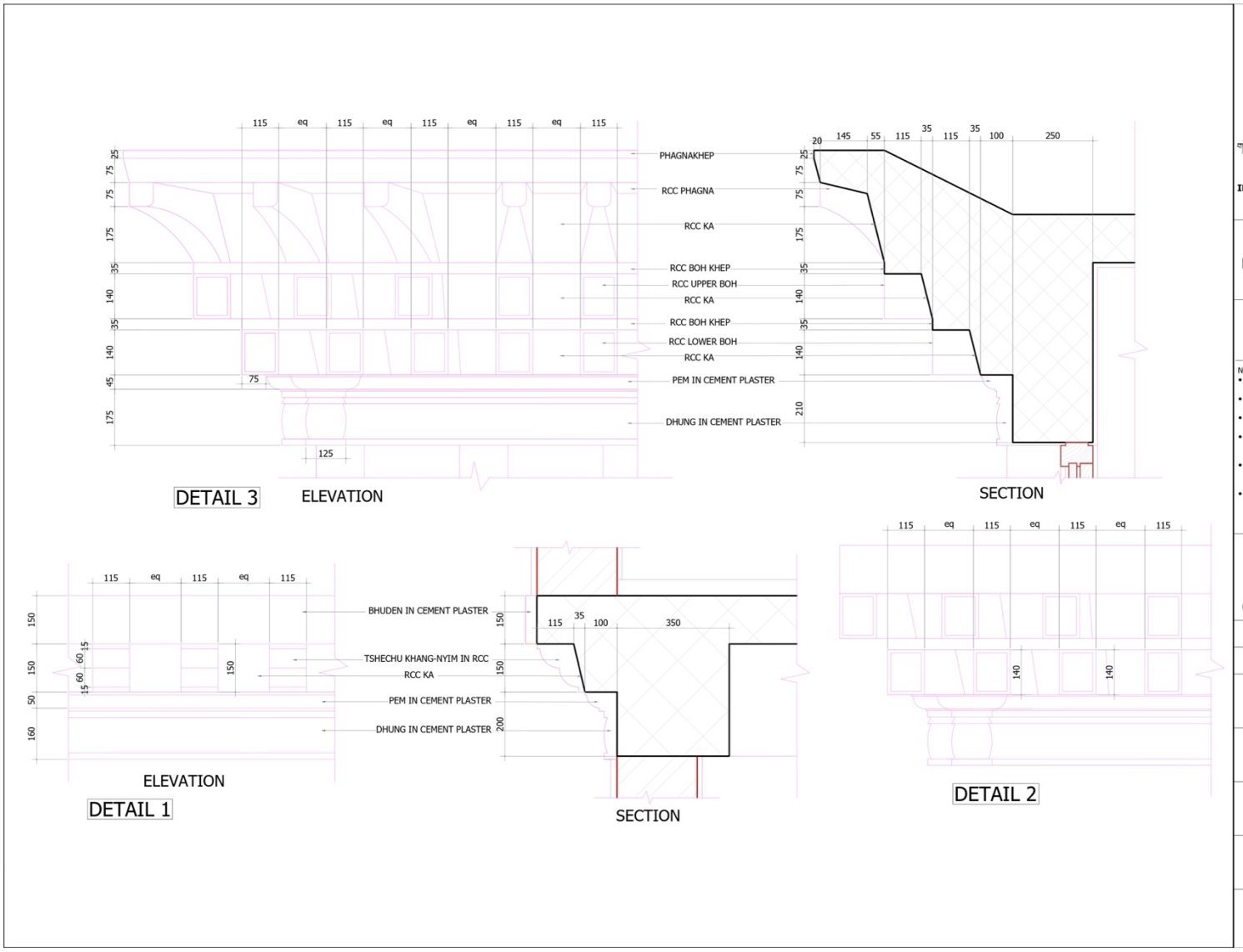
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

ENDORSED BY:

DESIGNATION (BFDA)

PAGE

23



REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

{ROID}

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

AGENCY

BFDA

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE.
- ALL LEVELS GIVEN w.r.t. ±0.000 AS UNFINISHED LEVEL OF BUILDING.
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DRAWING TITLE

TYPICAL RABSEY CORNICES DETAIL

SCALE: 1:9.19

3/13/2026

DESIGN & DRAWN BY:

SAMTEN NORBU (ENGINEER)

CHECKED BY:

TENZIN RABGAY (ARCHITECT)

APPROVED BY:

GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

ENDORSED BY:

DESIGNATION (BFDA)

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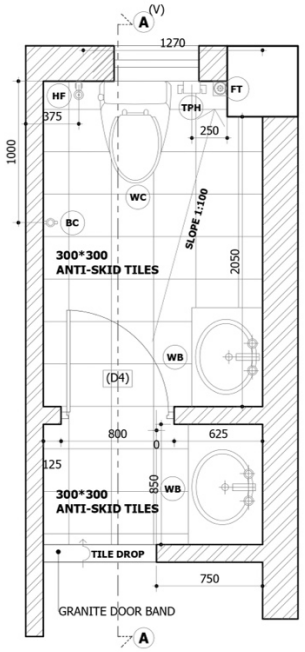
25

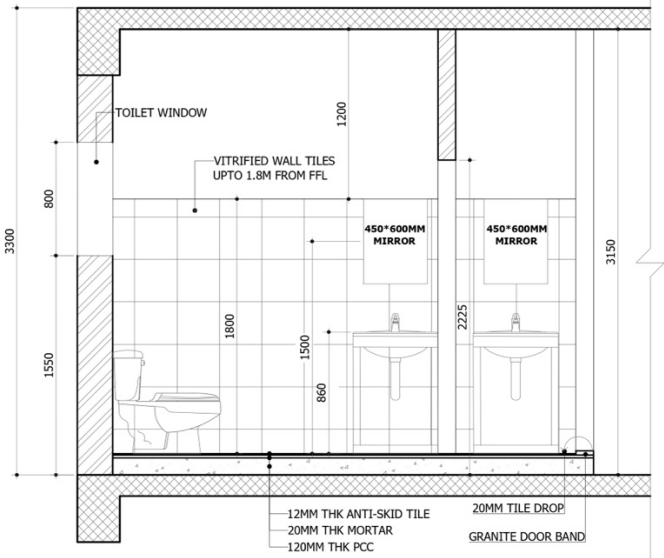
LEGEND:

WC - WATER CLOSET
WB - WASH BASIN
FT - FLOOR TRAP
HF - HEALTH FAUCET
TPH - TOILET PAPER HOLDER
BC - BIB COCK

PLUMBING FITTING SCHEDULE

Thumbnail	FITTING NAME	SYMBOL	HEIGHT FROM FFL
	FLOOR TRAP	FT	-
	HEALTH FACET	HF	500MM
	TOILET PAPER HOLDER	TP	500MM
	SHOWER HEAD	SH	2100MM
	SINK	SK	900MM
	TAPE	BC	50MM
	STOVE	ST	-
	FRIDGE	FG	-
	WASHING CLOSET	WC	-
	WASHING BASIN	WB	900MM
	BATH TUB	BT	-
	MIRROR	MM	1100MM
	TOWEL RAIL	TT	1500MM







ཁྲིམས་སྒྲུབ་མཐའ་གོང་འཕེལ་ལས་དོན་ཚན་པའི་ཞོང་།།
ཀུན་ཚོགས་སྡེ་།།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

{ROID}

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

AGENCY

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DRAWING TITLE

GROUND & FIRST FLOOR TOILET DETAIL

SCALE: 1:25

3/13/2026

DESIGN & DRAWN BY:

SAMTEN NORBU (ENGINEER)

CHECKED BY:

TENZIN RABGAY (ARCHITECT)

APPROVED BY:

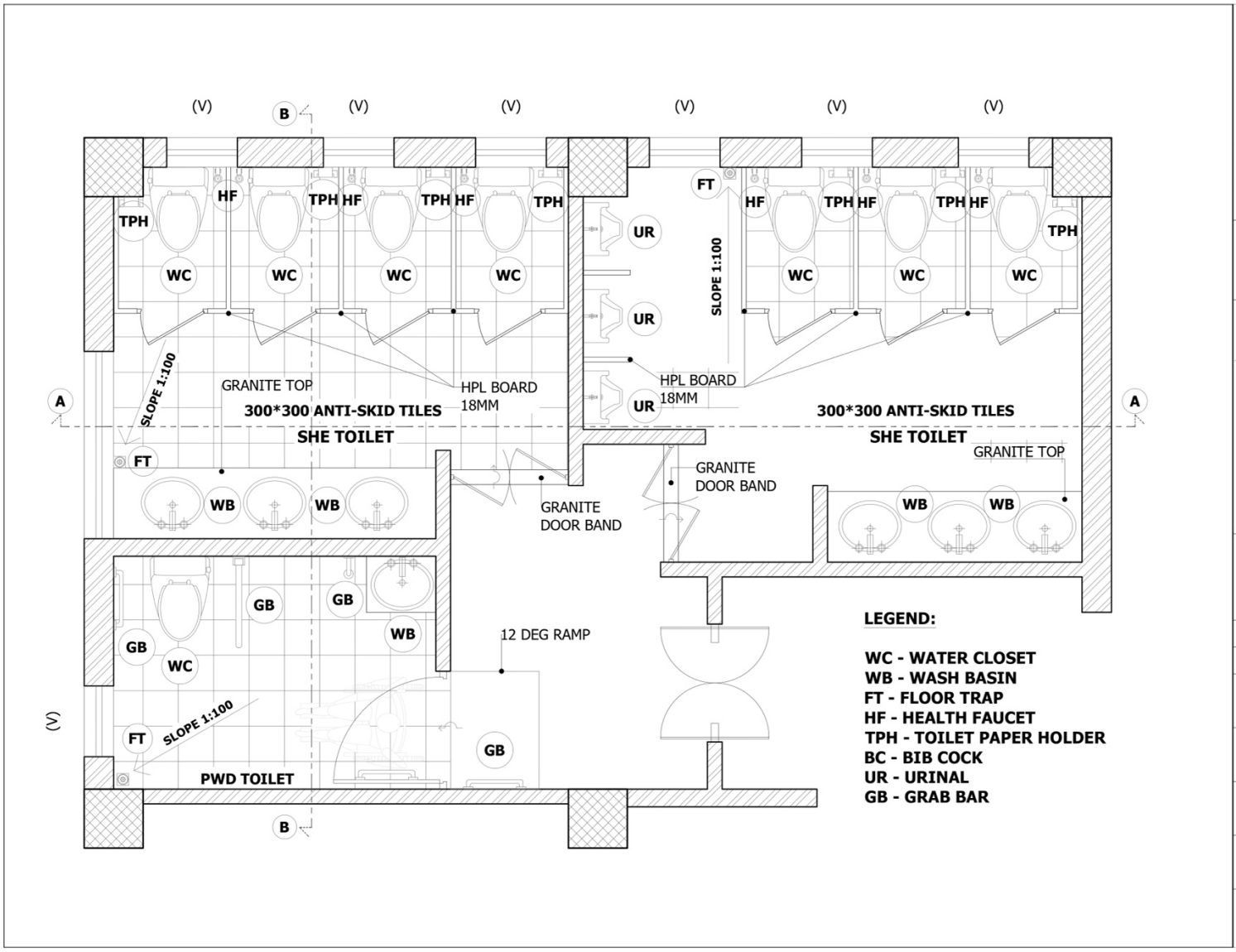
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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DESIGNATION **(BFDA)**

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ཕུན་ཚོགས་གླིང་།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING
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DRAWING TITLE

SECON FLOOR TOILET PLAN

SCALE: 1:25

3/13/2026

DESIGN & DRAWN BY:

SAMTEN NORBU (ENGINEER)

CHECKED BY:

TENZIN RABGAY (ARCHITECT)

APPROVED BY:

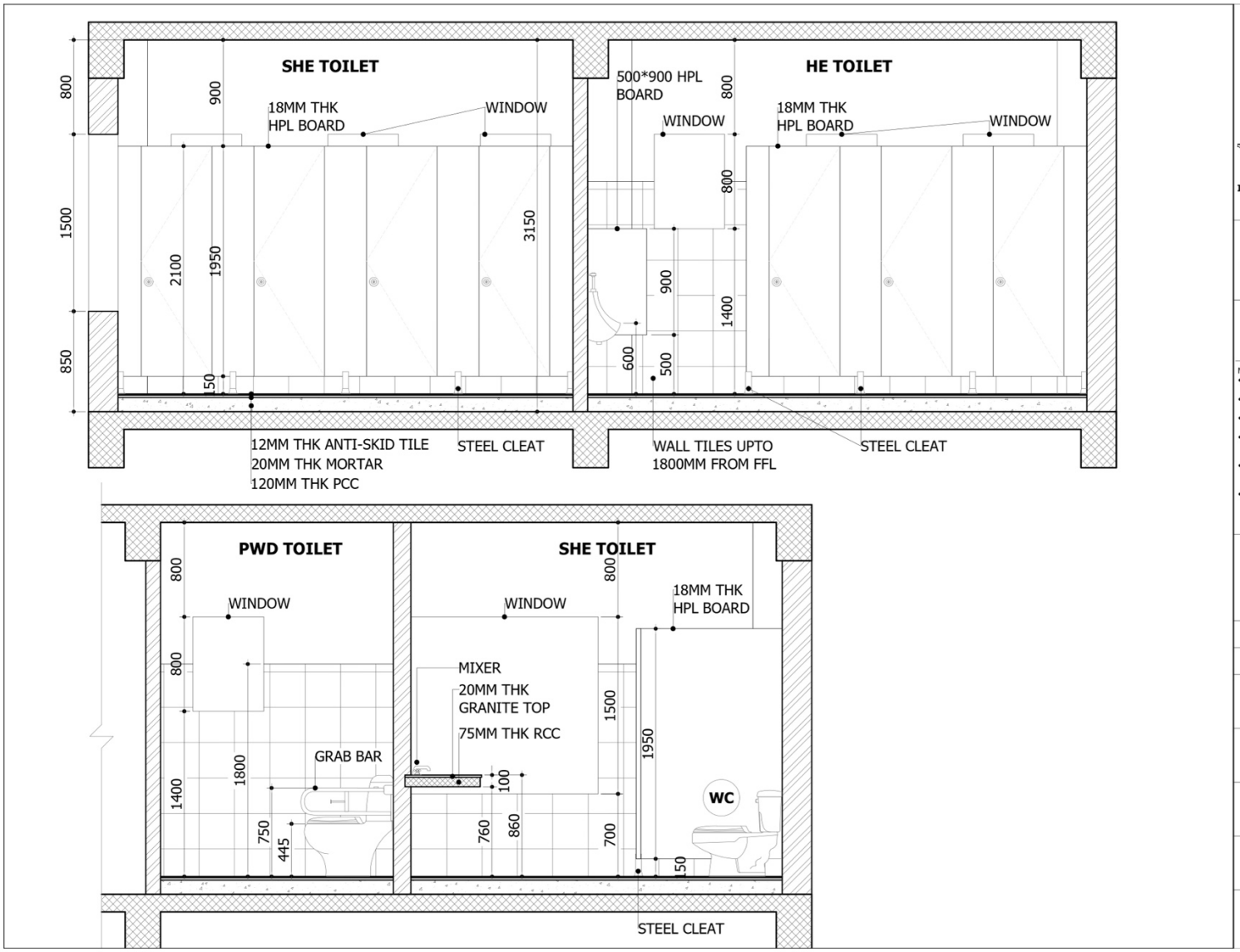
GANESH PRASAD CHAMLAGAI
(INTERIM HEAD)

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DESIGNATION **(BFDA)**

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ལྷན་ཚོགས་སྤྱིང་།།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

[ROID]

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

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DRAWING TITLE

SECON FLOOR TOILET SECTION

SCALE: 1:25

3/13/2026

DESIGN & DRAWN BY:

SAMTEN NORBU (ENGINEER)

CHECKED BY:

TENZIN RABGAY (ARCHITECT)

APPROVED BY:

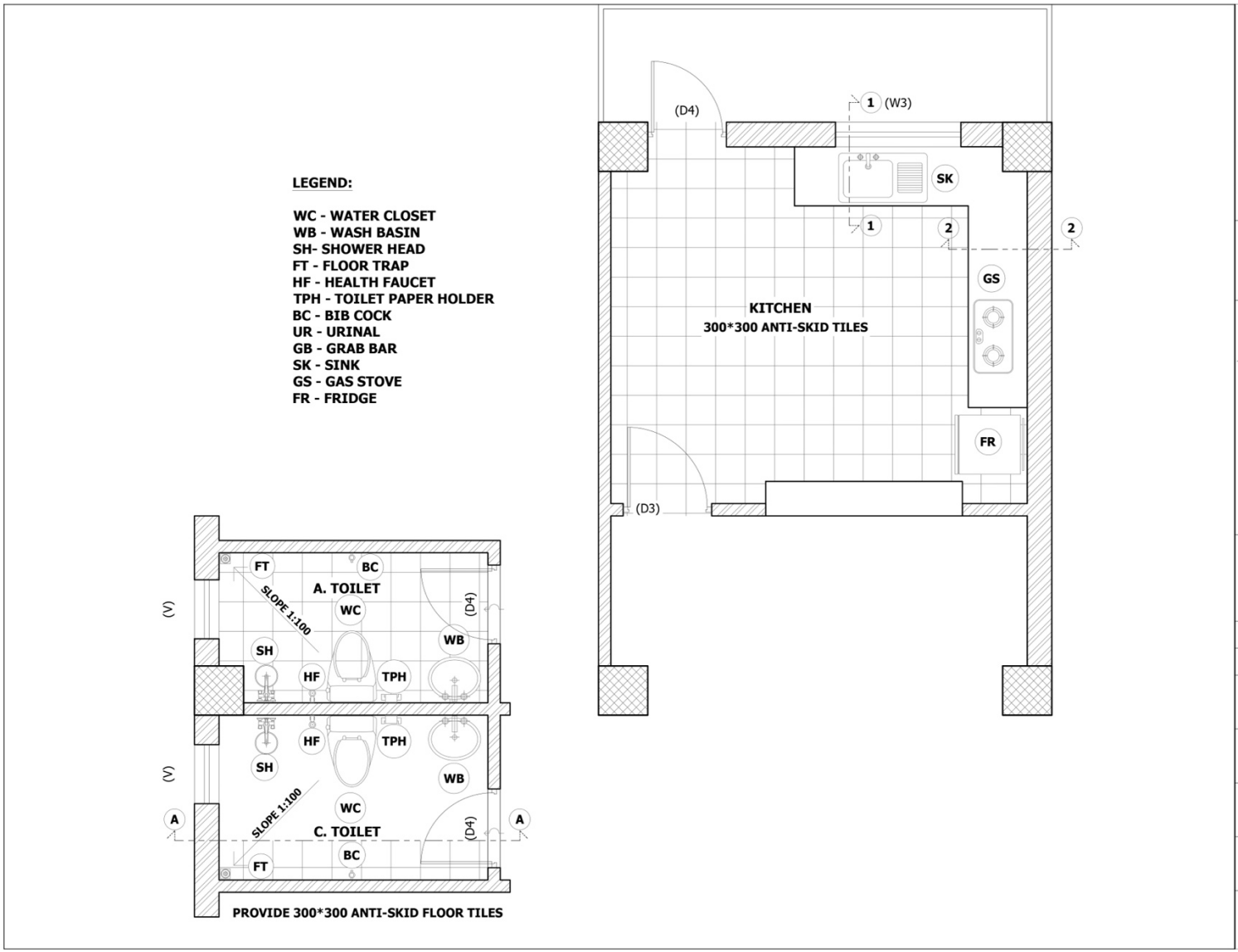
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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ཕྱག་ཆོགས་པ།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING
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DRAWING TITLE

THIRD FLOOR TOILET PLAN

SCALE: 1:30

3/13/2026

DESIGN & DRAWN BY:

SAMTEN NORBU (ENGINEER)

CHECKED BY:

TENZIN RABGAY (ARCHITECT)

APPROVED BY:

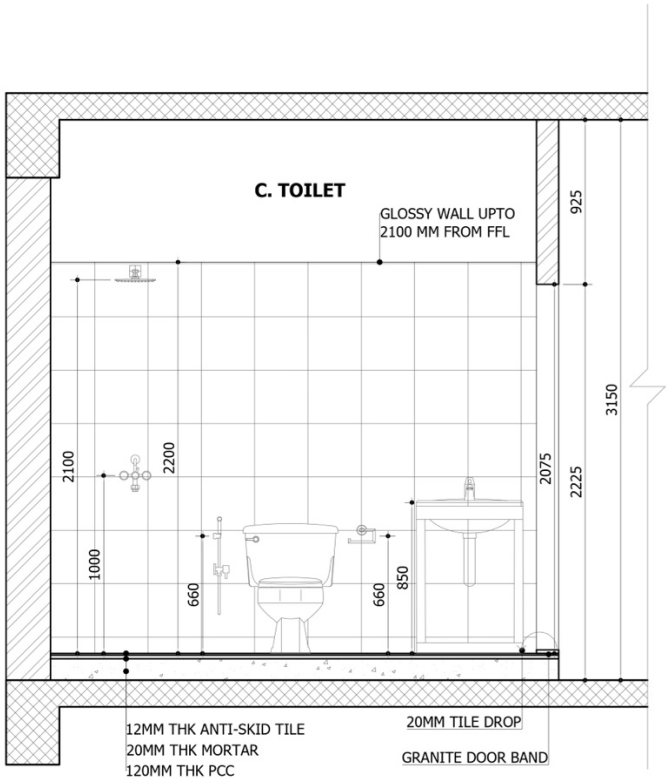
GANESH PRASAD CHAMLAGAI
(INTERIM HEAD)

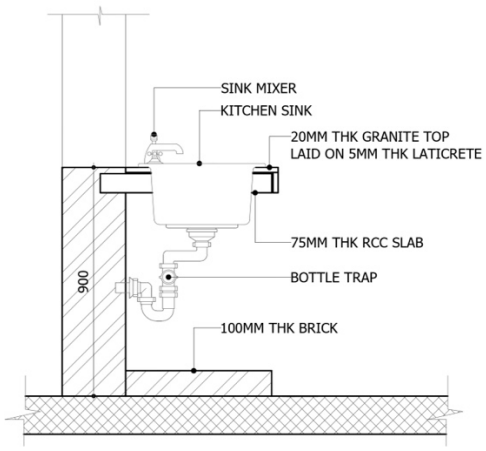
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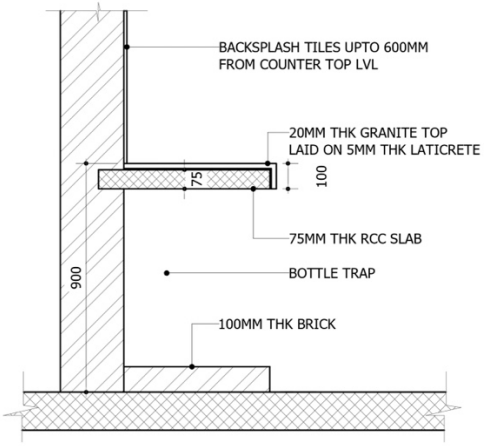
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SECTION 1-1



SECTION 2-2

ཁག་རྩེད་མཁོ་ཚོང་འཛིན་གཞུང་ལུང་སྡེབས་ཡིག་ཚང་།།
ཕུན་ཚོགས་གླིང་།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING
(ROID)

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

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DRAWING TITLE

THIRD FLOOR TOILET & KITCHEN SECTION

SCALE: 1:20

3/13/2026

DESIGN & DRAWN BY:

SAMTEN NORBU (ENGINEER)

CHECKED BY:

TENZIN RABGAY (ARCHITECT)

APPROVED BY:

GANESH PRASAD CHAMLAGAI
(INTERIM HEAD)

ENDORSED BY:

DESIGNATION **(BFDA)**

PAGE

30

WINDOW SCHEDULE

	SIZE		PARTICULARS	SILL HT.	MATERIAL	QTY.
	WIDTH	HEIGHT				
W1	2400	1500	THREE PANELS	850mm	UPVC	
W2	1590	1080	TWO PANELS	850mm	UPVC	
W3	1275	1080	TWO PANELS	1270mm	MS GRILL	
SD1	3000	2250	THREE PANELS	100mm	MS GRILL	
V1	600	800	DOUBLE PANELS	1550mm	UPVC	
JW1	2800	1200	DOUBLE PANELS	1200mm	UPVC	
JW2	2000	1200	DOUBLE PANELS	1200mm	UPVC	
JW3	1200	1200	DOUBLE PANELS	1200mm	UPVC	

DOOR SCHEDULE

	SIZE		QUANTITY	Material
	WIDTH	HEIGHT		
MD	1800	2300		As per Dwg.
D1	1200	2300		As per Dwg.
D2	1000	2300		As per Dwg.
D3	900	2150		As per Dwg.
D4	800	1800		As per Dwg.
D5	1000	2150		As per Dwg.

FLOOR AND WALL FINISHES

	PARTICULARS
EXTRIOR WALL FINISHES	CEMENT PUTTY OVER 20MM CEMENT PLASTER FINISHED WITH 2 OR MORE COATS OF ACRYLIC EXTERIOR WATERPROOF PAINT WITH TEXTURED FINISH
INTERIOR WALL FINISHES	CEMENT PUTTY OVER 15MM CEMENT PLASTER FINISHED WITH 2 OR MORE COATS OF ACRYLIC INTERIOR WATERPROOF PAINT WITH SEMI-GLOSS FINISH
FLOOR TILES	PGVT
TOILET FLOOR TILES	ANTI-SKID TILES ON 40MM THK MOTAR
TOILET WALL TILES	300X300MM CERAMIC WALL TILES UPTO 1.8M FROM F.F.L
COUNTER TOP TILES	MARBLE TILES
CEILING	RCC Slab
CEILING AT ROOF OVERHANG	PVC CEILING PANEL FIXED ON 50X50 MM ISA 50X50 GRID
EAVES BOARD	3MM MS SHEET FIXED ON RHS 25X25 ON TWO END
ROOFING	PREPAINTED GALVANISED IRON SHEETS-PPGI

1. PELMET SHALL BE PROVIDED FOR WINDOWS AND DOORS WITH NECESSARY CURTAIN FITTINGS.

2. BHUTANESE ARCHITECTURAL CURVES SHALL BE AS PER LATEST PRACTICE AND FIXED TO WINDOW FRAMES AS PER APPROVAL OF ENGINEER IN CHARGE.

3. FIX ORNAMENTAL GRILLS OF 20MMX2MM FOR ALL WINDOWS

If and when there is a discrepancy betwwen the drawing and the BOQ, Please seek clarification from the design team

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING
(ROID)

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

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DRAWING TITLE

DOOR & WINDOW SCHEDULE

SCALE: 1:49.29

3/13/2026

DESIGN & DRAWN BY:

SAMTEN NORBU (ENGINEER)

CHECKED BY:

TENZIN RABGAY (ARCHITECT)

APPROVED BY:

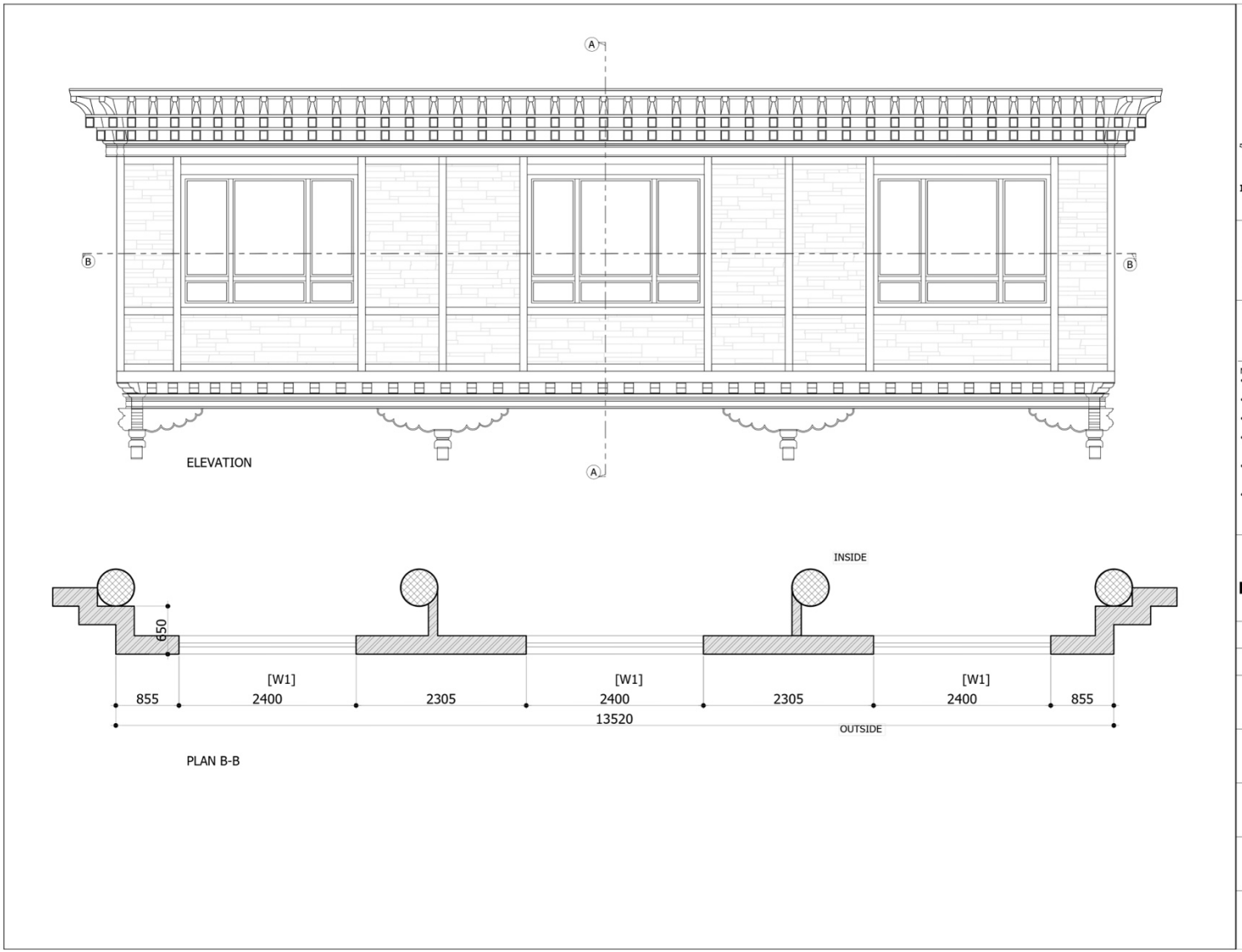
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

ENDORSED BY:

DESIGNATION **(BFDA)**

PAGE

31



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ཀུན་ཚོགས་ལྷོན་།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

{ROID}

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DRAWING TITLE

RABSEY ELEVATION & PLAN DETAIL

SCALE: 1:40

3/13/2026

DESIGN & DRAWN BY:

SAMTEN NORBU (ENGINEER)

CHECKED BY:

TENZIN RABGAY (ARCHITECT)

APPROVED BY:

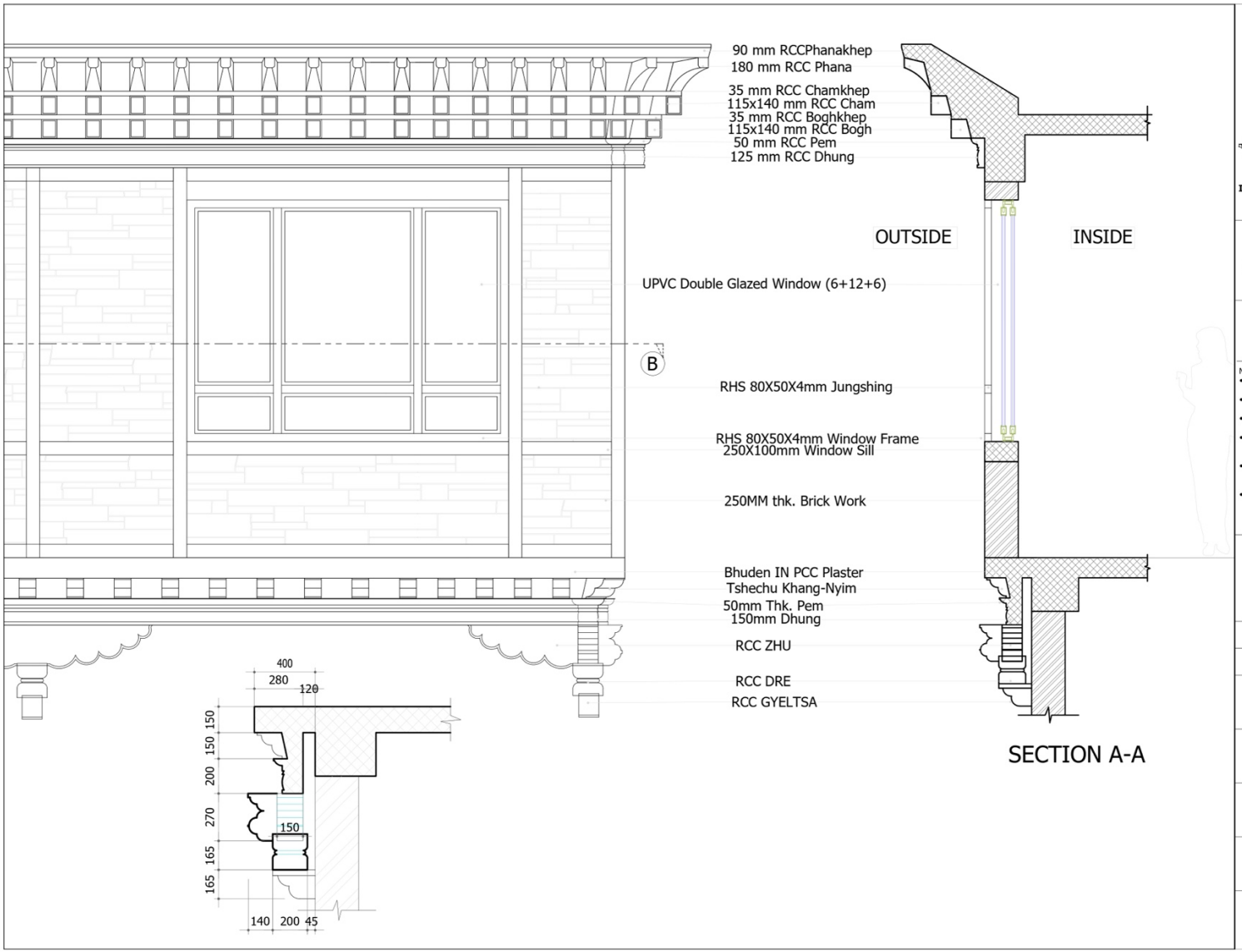
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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DRAWING TITLE

RABSEY SECTION DETAIL

SCALE: 1:22

3/13/2026

DESIGN & DRAWN BY:

SAMTEN NORBU (ENGINEER)

CHECKED BY:

TENZIN RABGAY (ARCHITECT)

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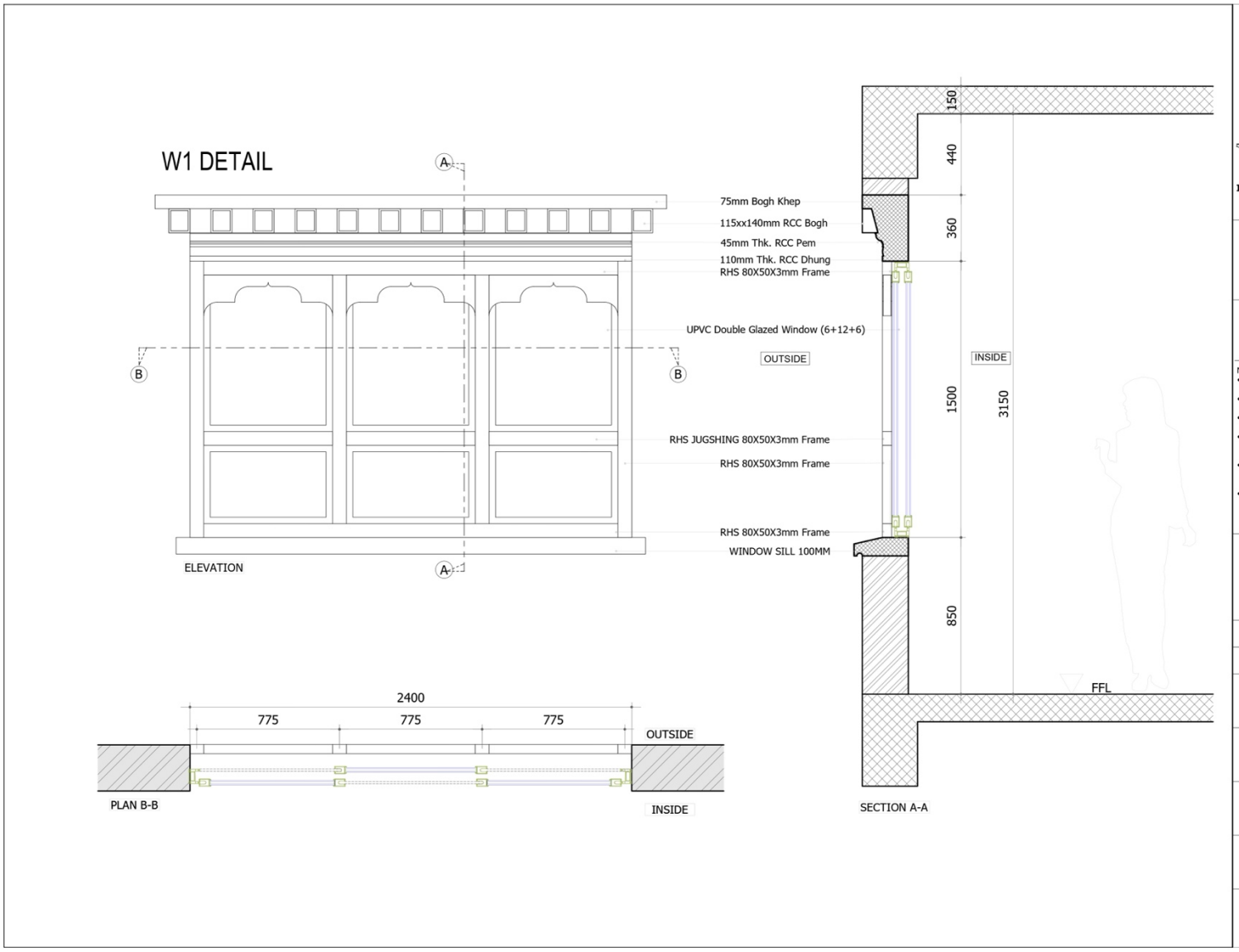
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING
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DRAWING TITLE

W1 DETAIL

SCALE: 1:16

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DESIGN & DRAWN BY:

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TENZIN RABGAY (ARCHITECT)

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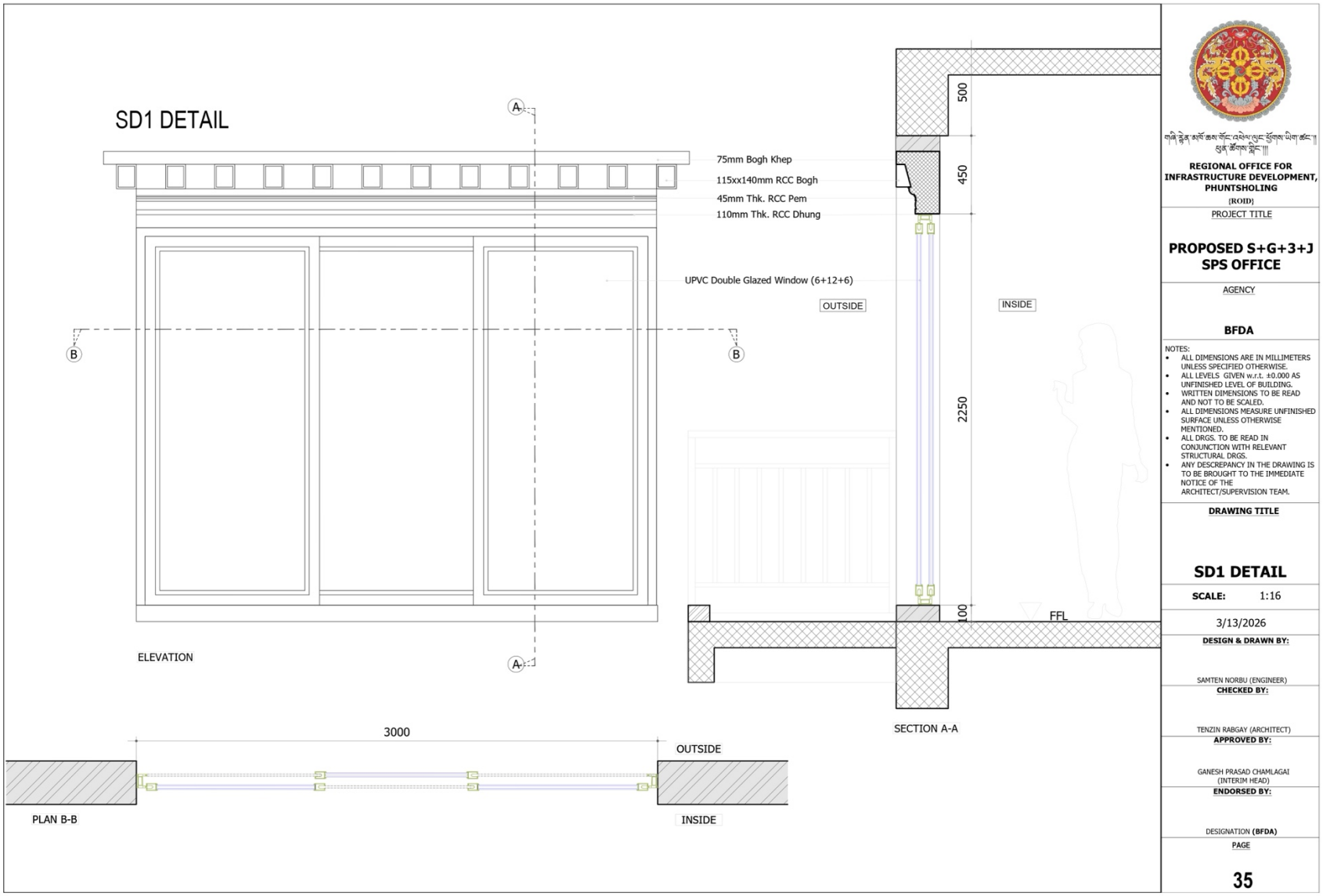
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

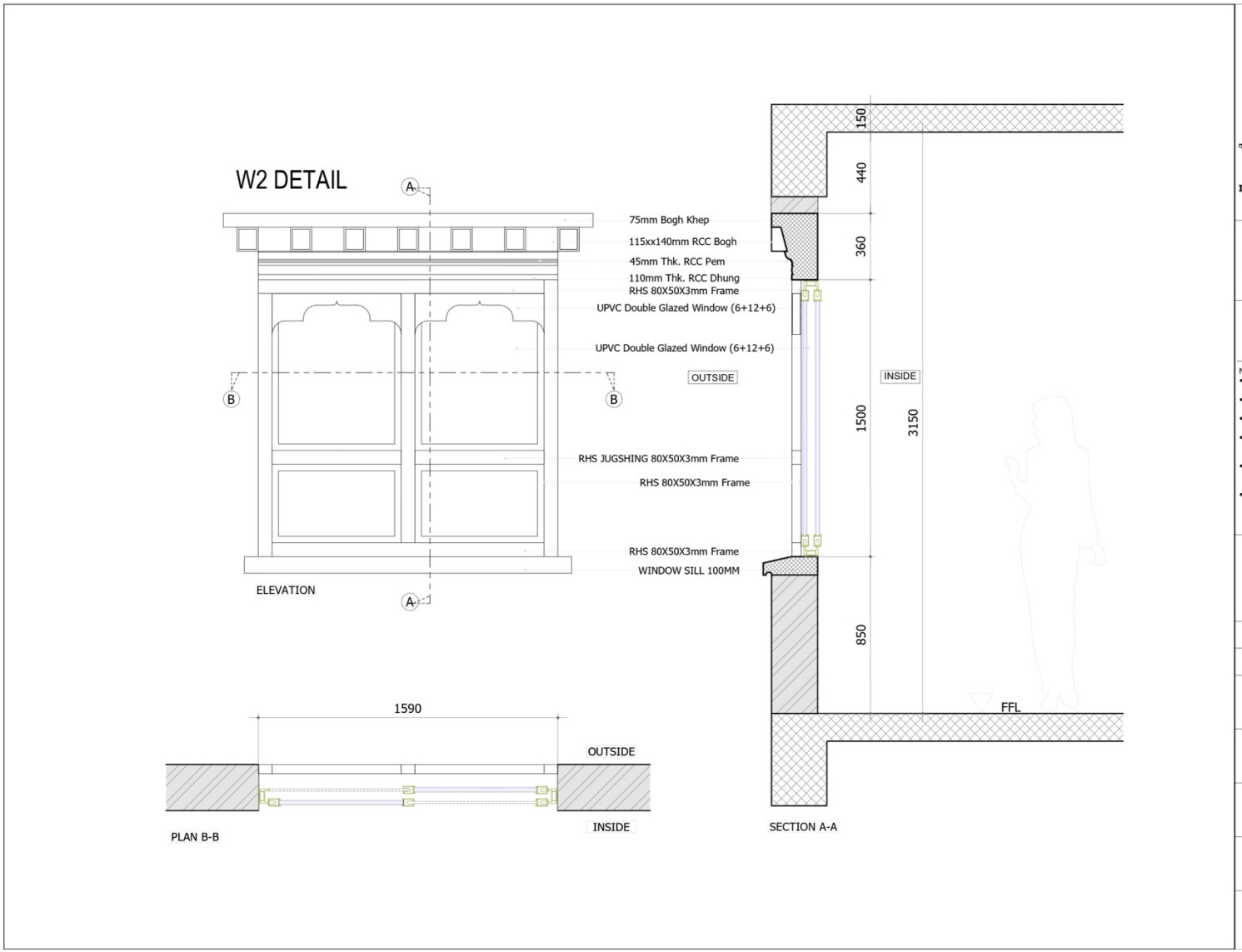
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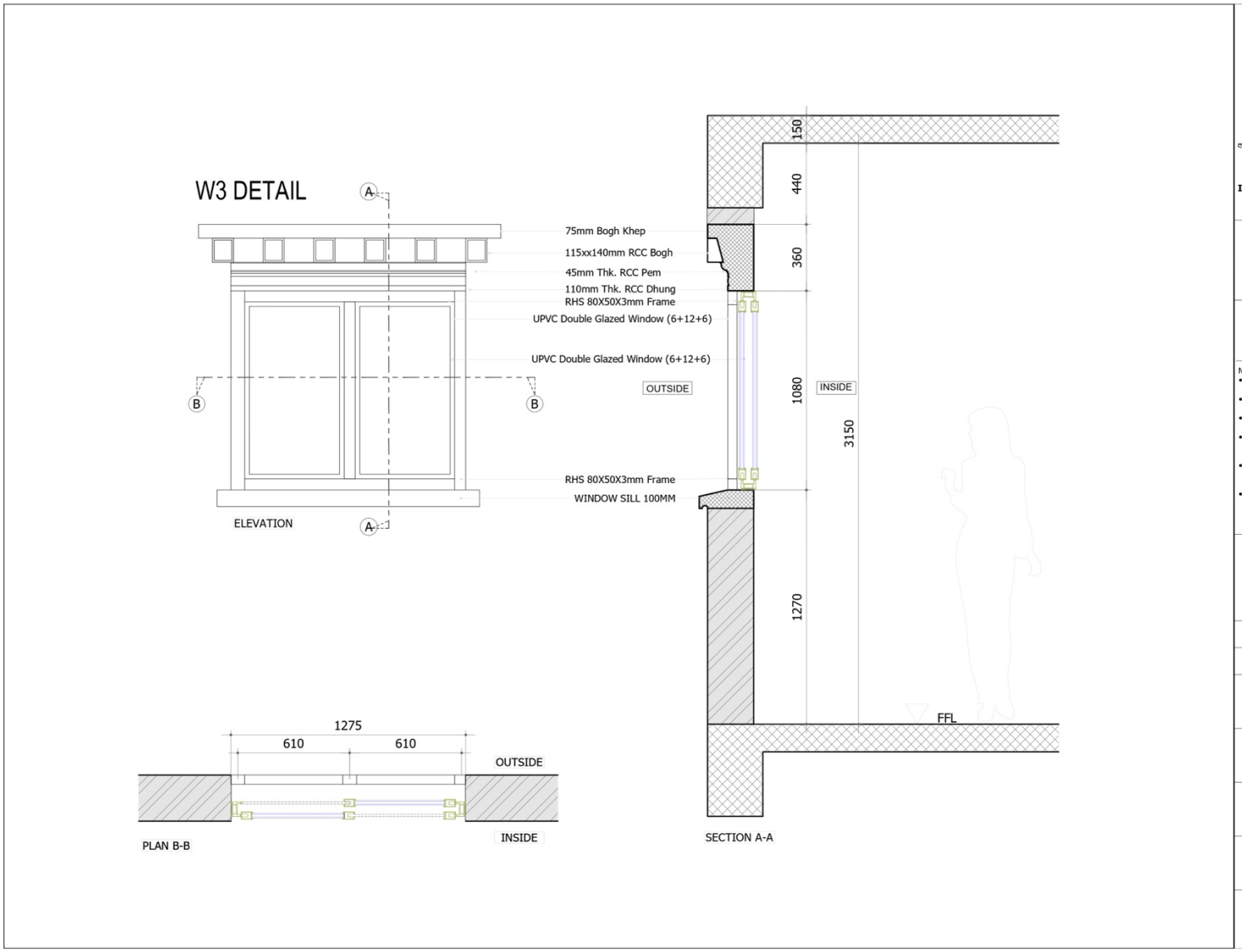
PAGE

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SD1 DETAIL
75mm Bogh Khep
115xx140mm RCC Bogh
45mm Thk. RCC Pem
110mm Thk. RCC Dhung
UPVC Double Glazed Window (6+12+6)
OUTSIDE
INSIDE
ELEVATION
500
450
2250
100
FFL
SECTION A-A
3000
OUTSIDE
INSIDE
PLAN B-B
REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING
[ROID]
PROJECT TITLE
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DRAWING TITLE
SD1 DETAIL
SCALE: 1:16
3/13/2026
DESIGN & DRAWN BY:
SAMTEN NORBU (ENGINEER)
CHECKED BY:
TENZIN RABGAY (ARCHITECT)
APPROVED BY:
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)
ENDORSED BY:
DESIGNATION (BFDA)
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35



ཀཱཡེ་སྟེན་མགོ་ཚར་བོང་འཕེལ་འྲུང་ཡོགས་པིཏ་ཚང་ ། ལུས་ཚོགས་སྐྱོང་ ། ། །



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འབྲུག་རྫོང་སྡེ་།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

[ROID]

PROJECT TITLE

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DRAWING TITLE

W3 DETAIL

SCALE: 1:16

3/13/2026

DESIGN & DRAWN BY:

SAMTEN NORBU (ENGINEER)

CHECKED BY:

TENZIN RABGAY (ARCHITECT)

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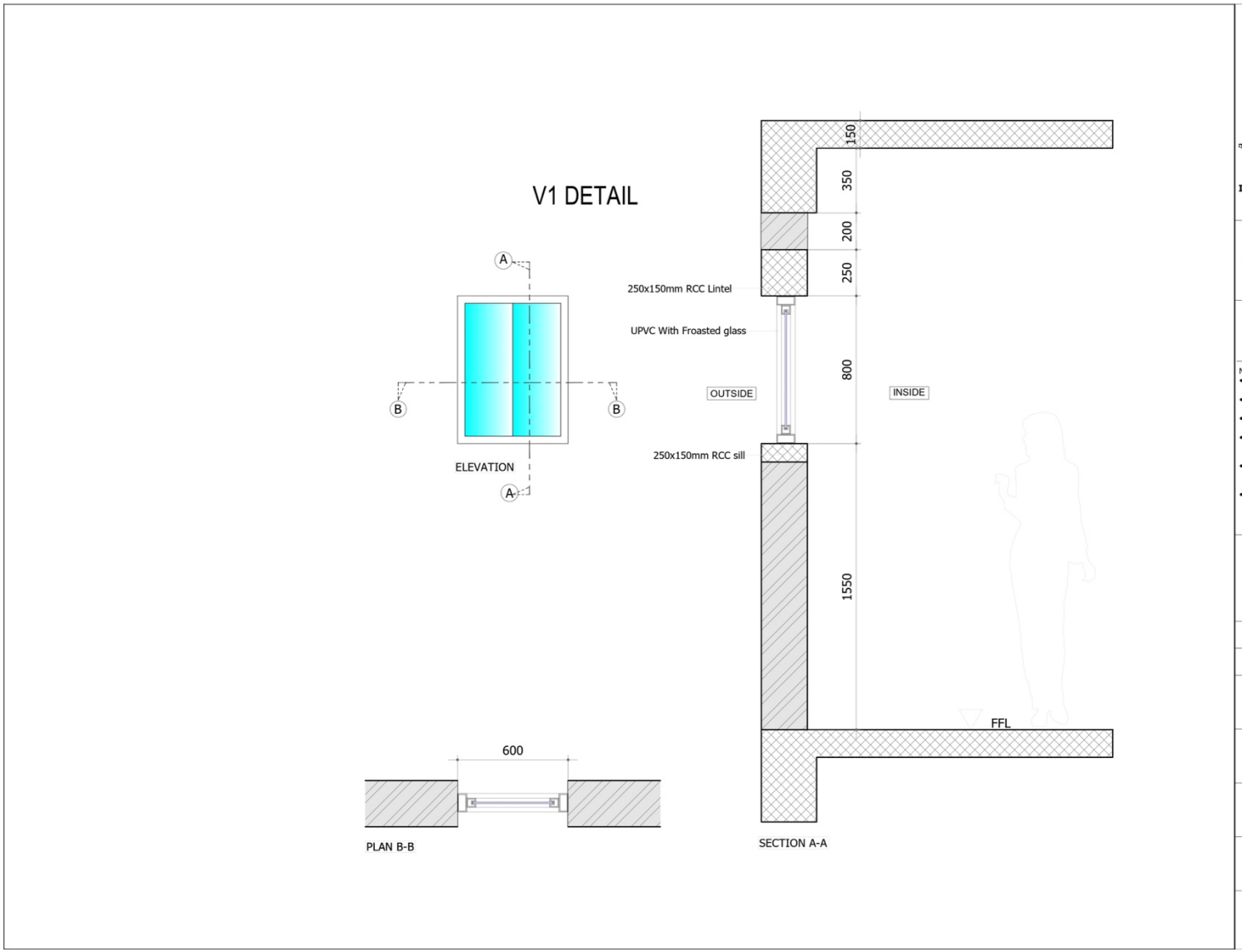
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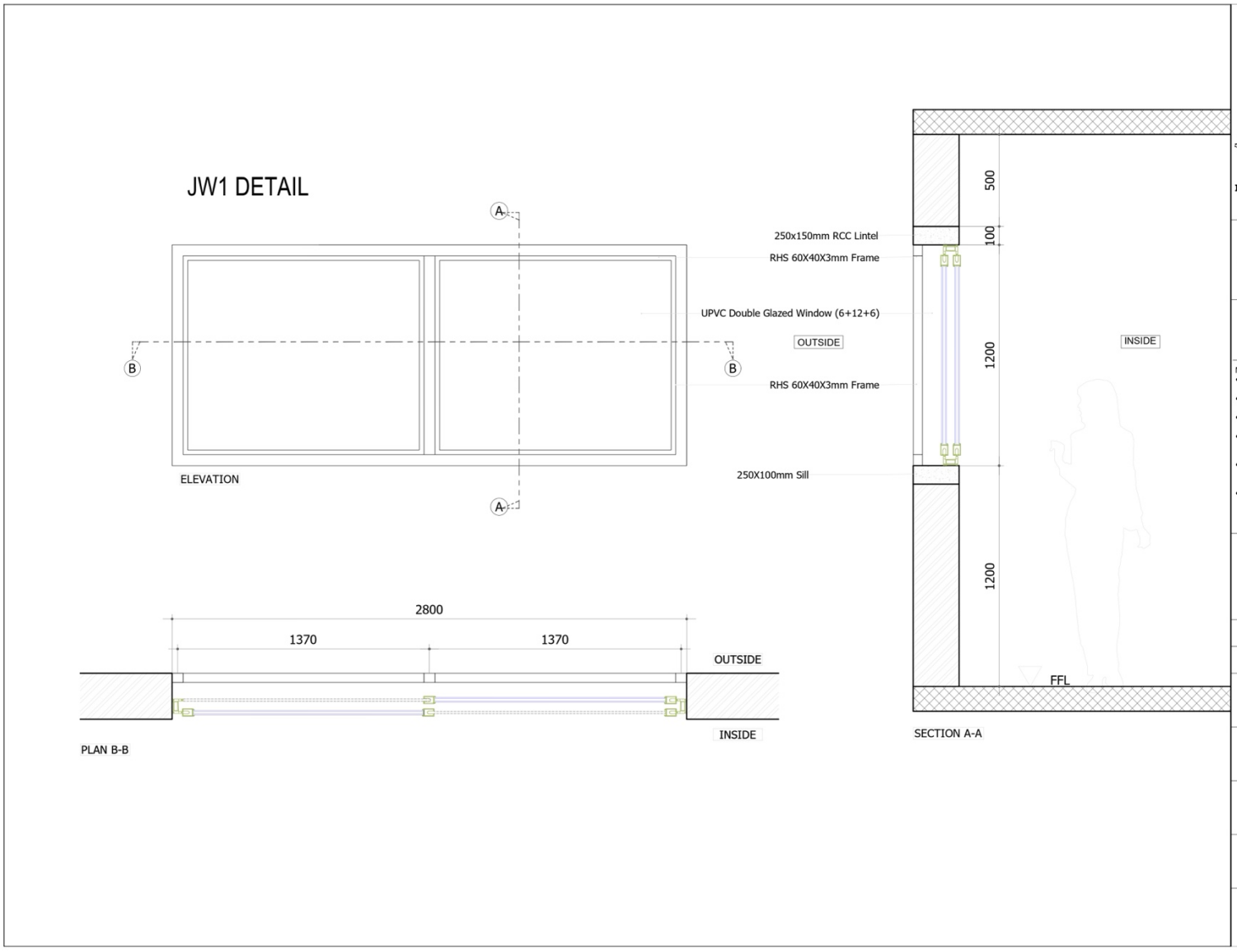
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JW1 DETAIL

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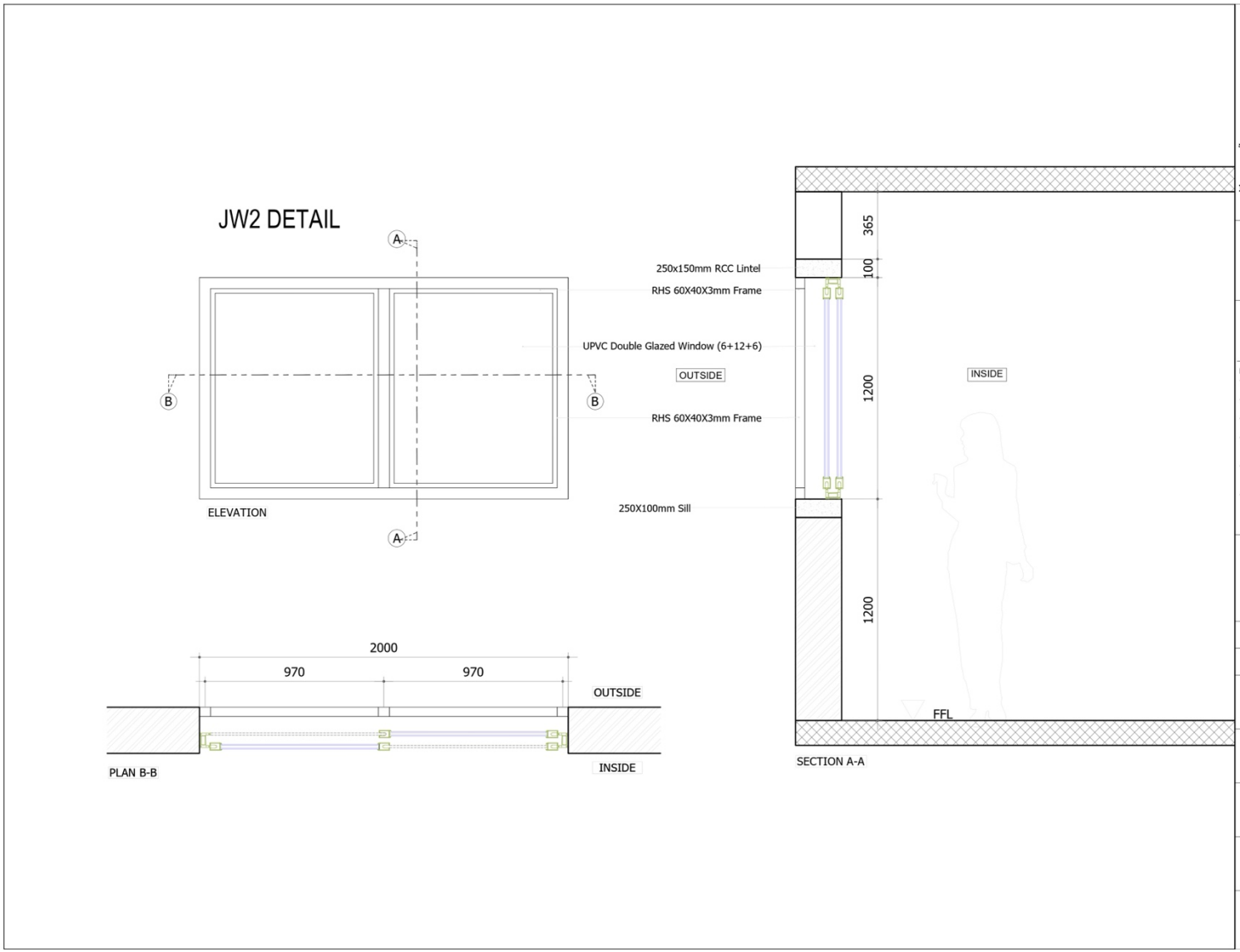
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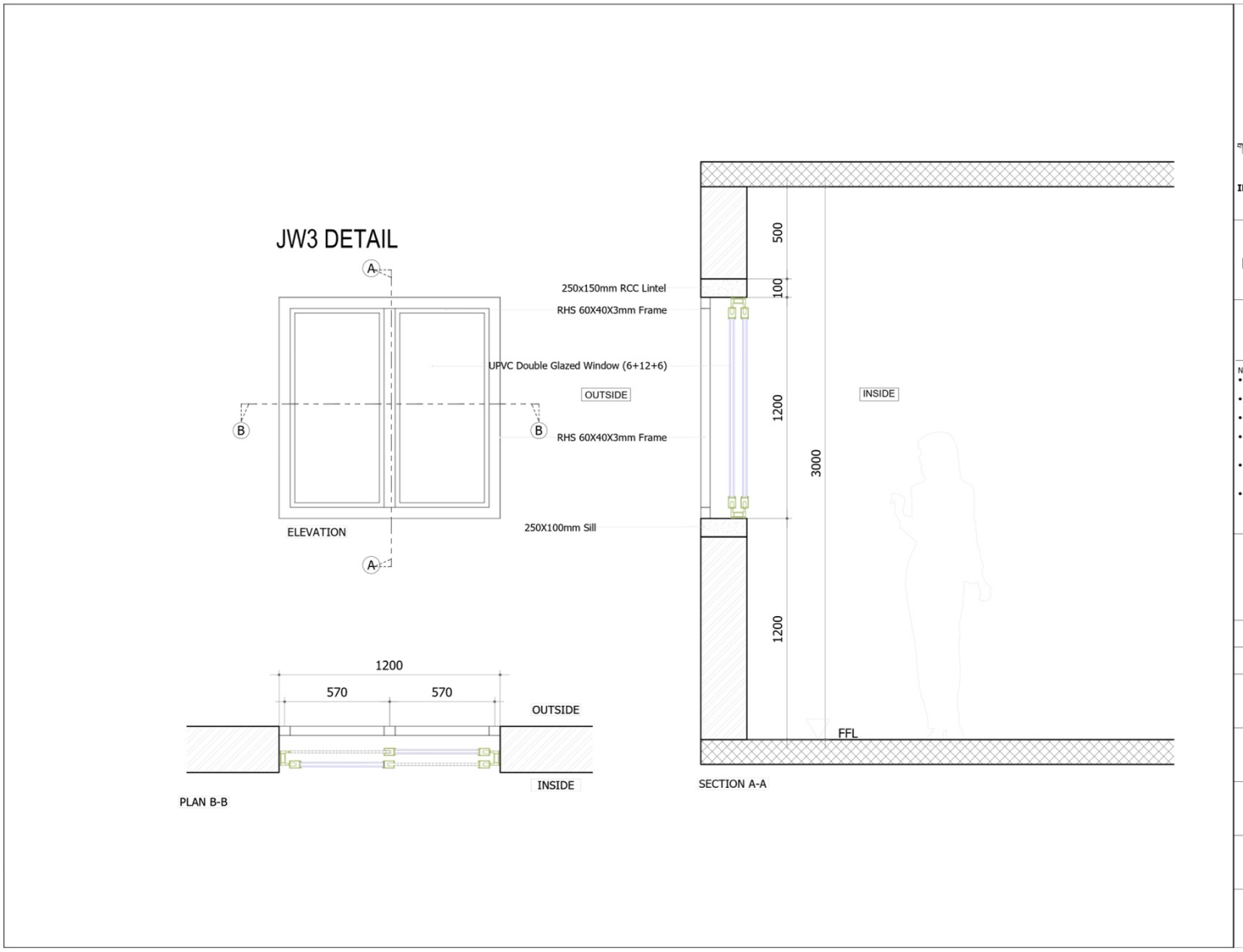
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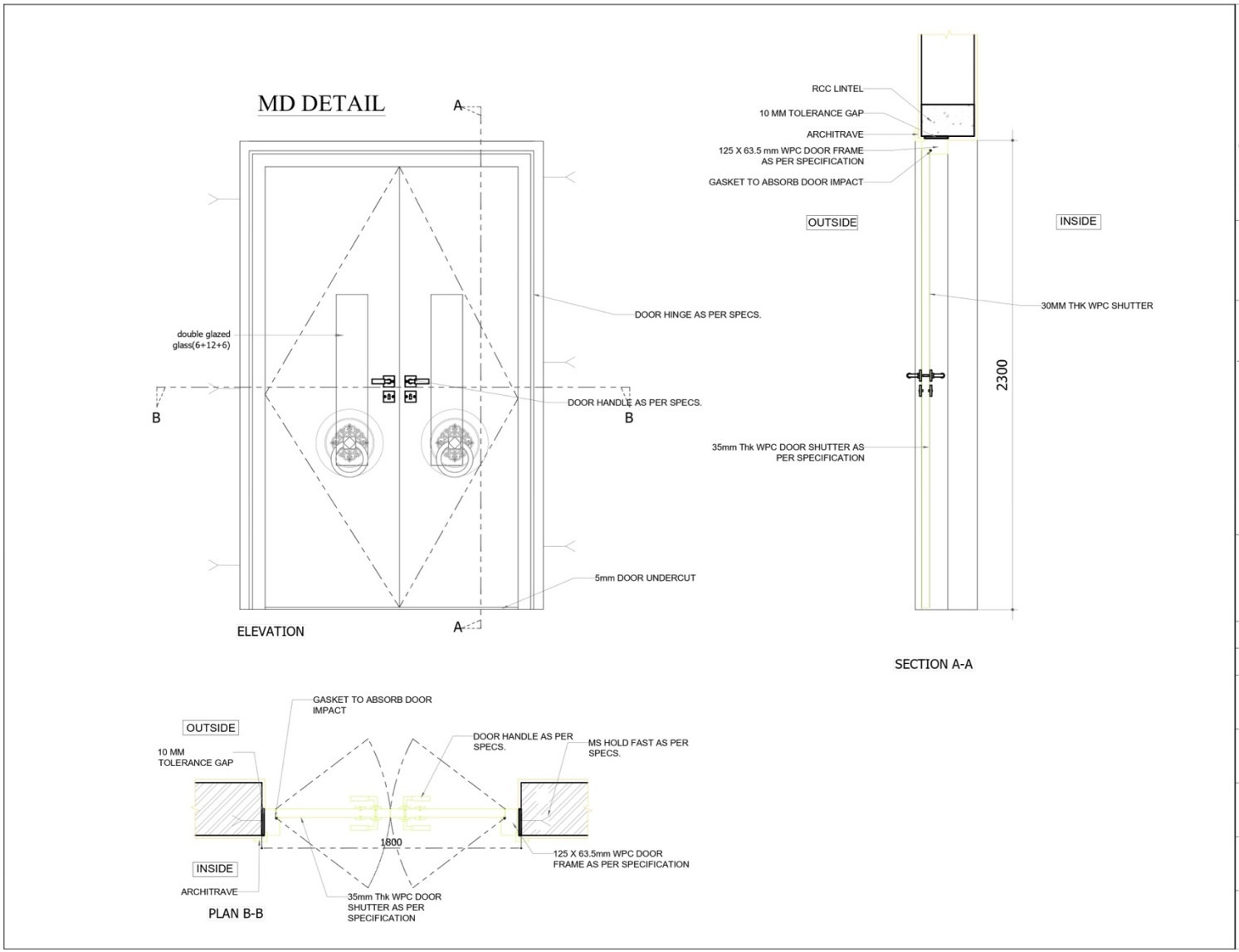
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DRAWING TITLE

MD DETAIL

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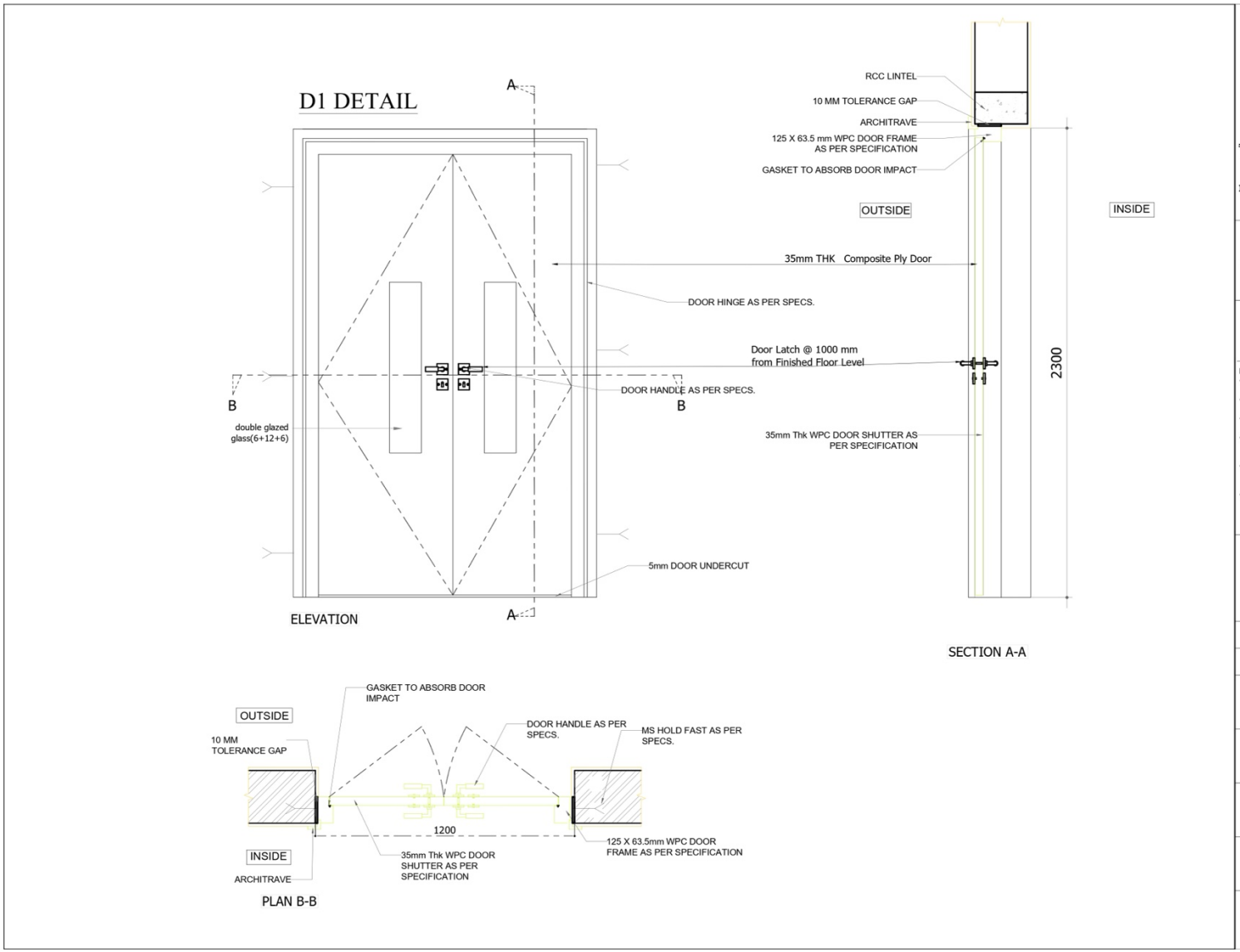
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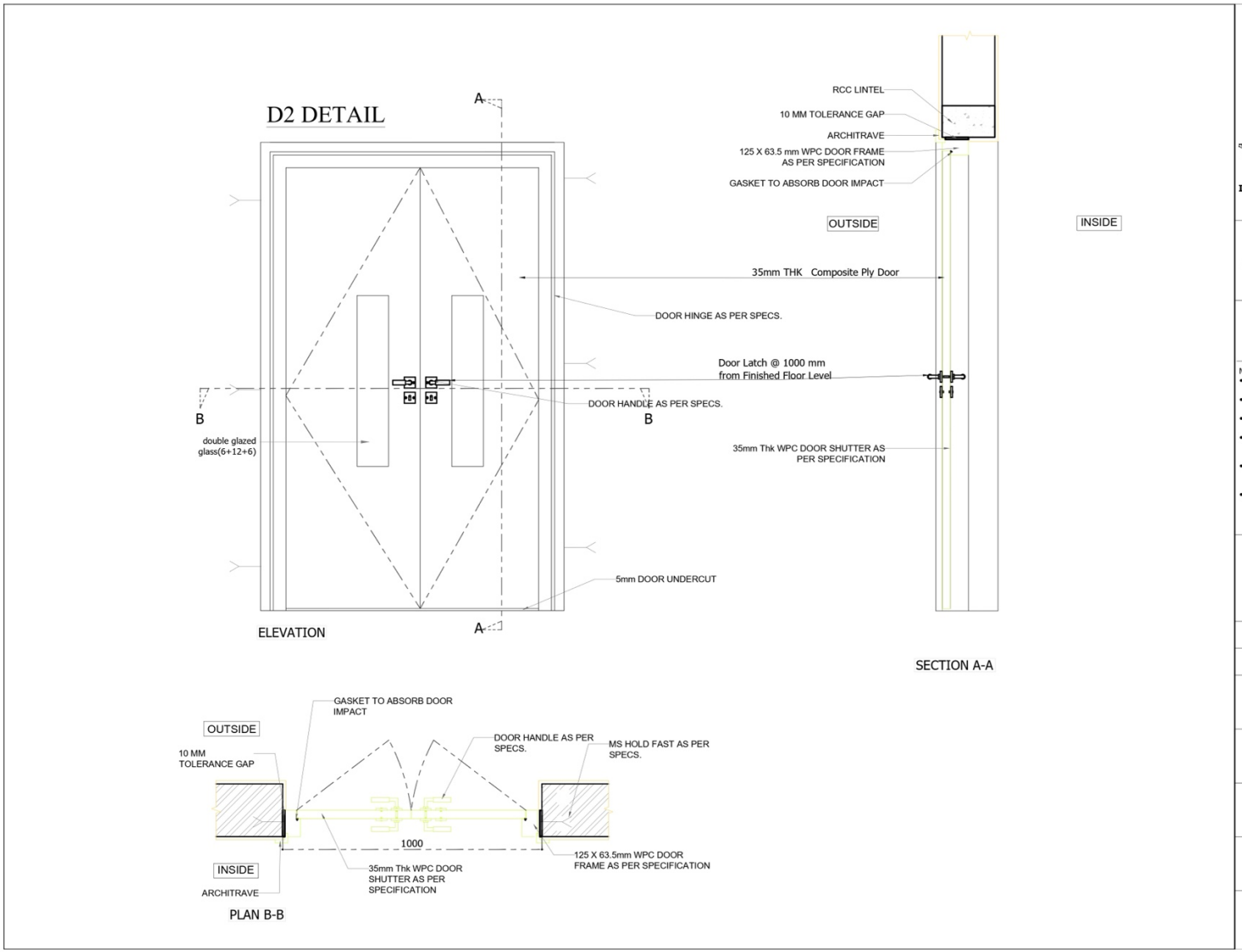
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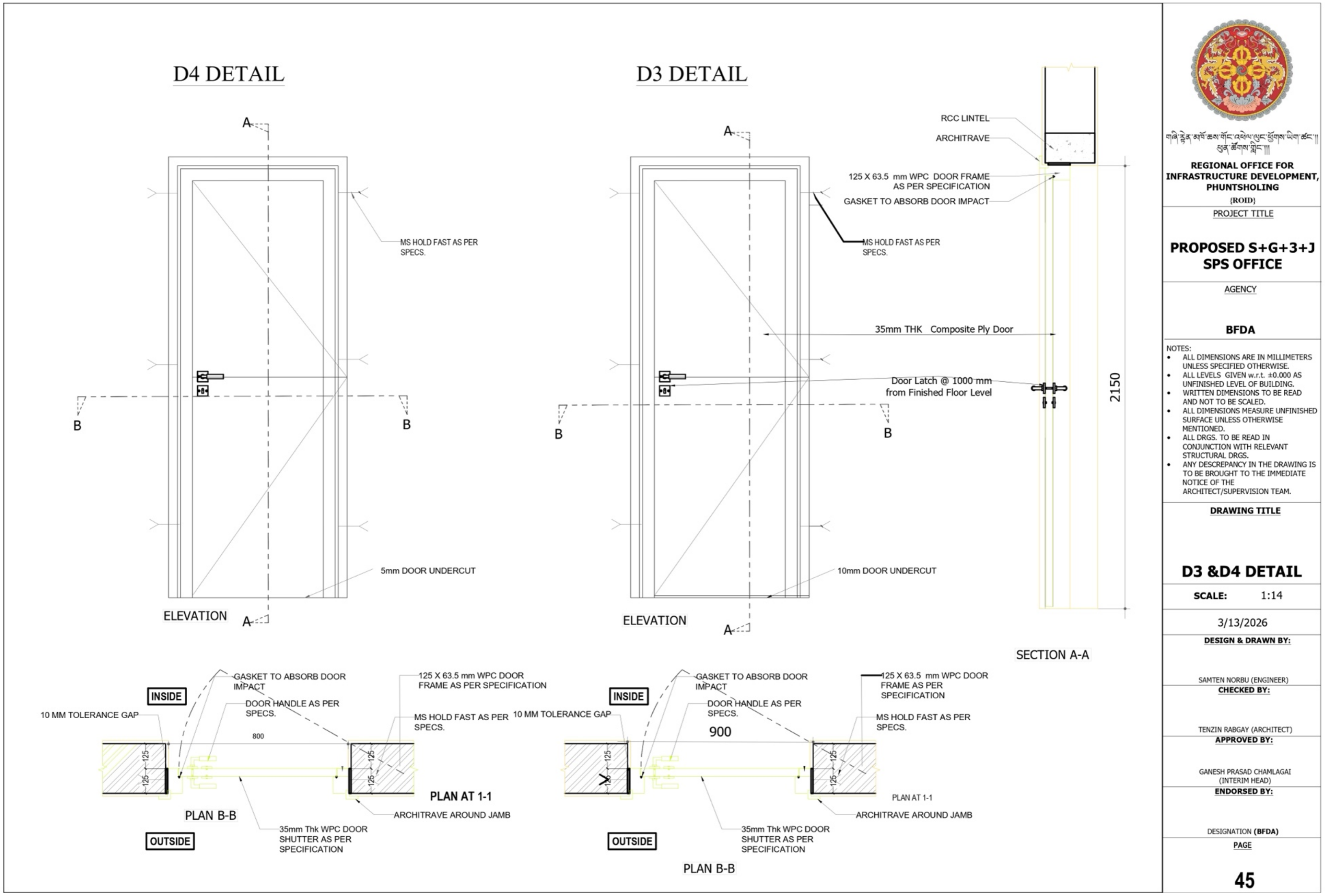
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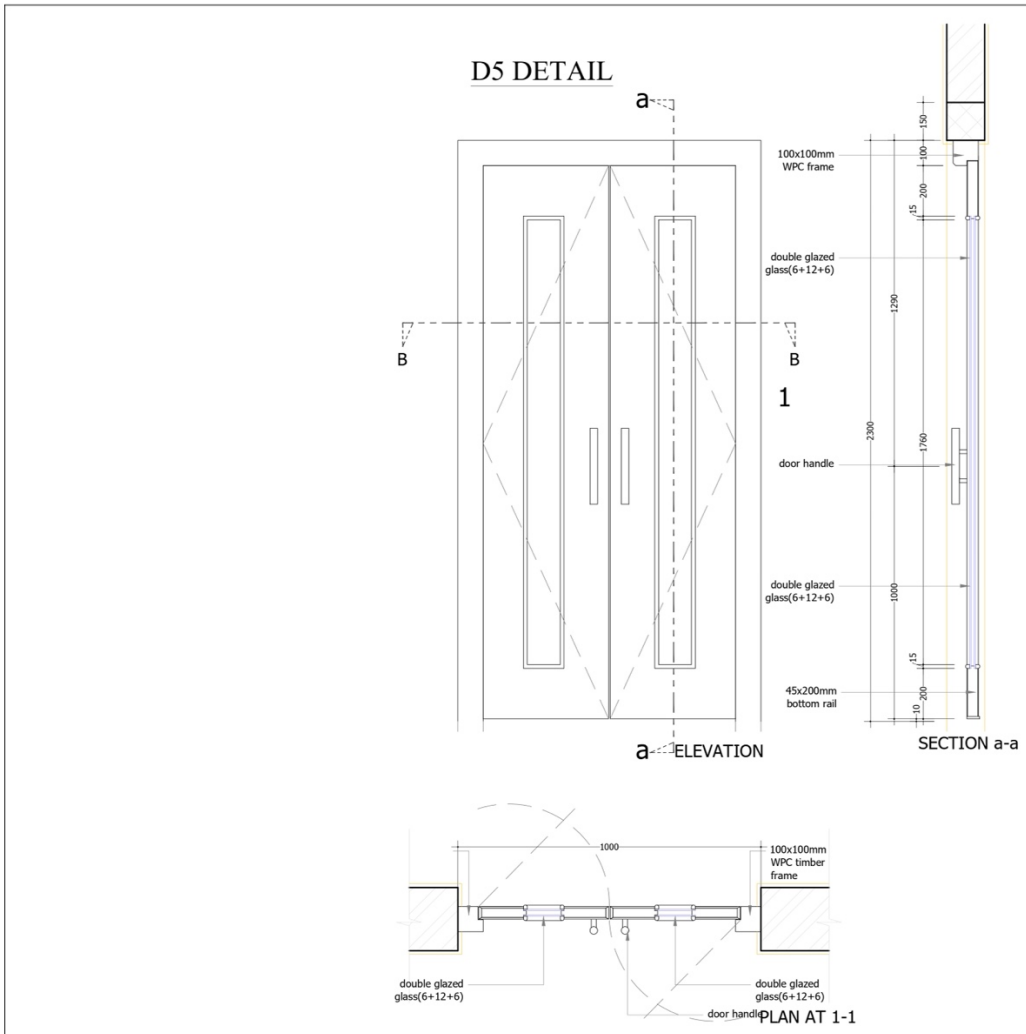
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D4 DETAIL
D3 DETAIL
RCC LINTEL
ARCHITRAVE
125 X 63.5 mm WPC DOOR FRAME AS PER SPECIFICATION
GASKET TO ABSORB DOOR IMPACT
MS HOLD FAST AS PER SPECS.
35mm THK Composite Ply Door
Door Latch @ 1000 mm from Finished Floor Level
2150
5mm DOOR UNDERCUT
10mm DOOR UNDERCUT
ELEVATION
SECTION A-A
INSIDE
OUTSIDE
10 MM TOLERANCE GAP
GASKET TO ABSORB DOOR IMPACT
DOOR HANDLE AS PER SPECS.
125 X 63.5 mm WPC DOOR FRAME AS PER SPECIFICATION
MS HOLD FAST AS PER SPECS.
800
900
PLAN AT 1-1
PLAN B-B
35mm Thk WPC DOOR SHUTTER AS PER SPECIFICATION
ARCHITRAVE AROUND JAMB
REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING
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DRAWING TITLE
D3 &D4 DETAIL
SCALE: 1:14
3/13/2026
DESIGN & DRAWN BY:
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CHECKED BY:
TENZIN RABGAY (ARCHITECT)
APPROVED BY:
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)
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PAGE
45





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DRAWING TITLE

D5 DETAIL

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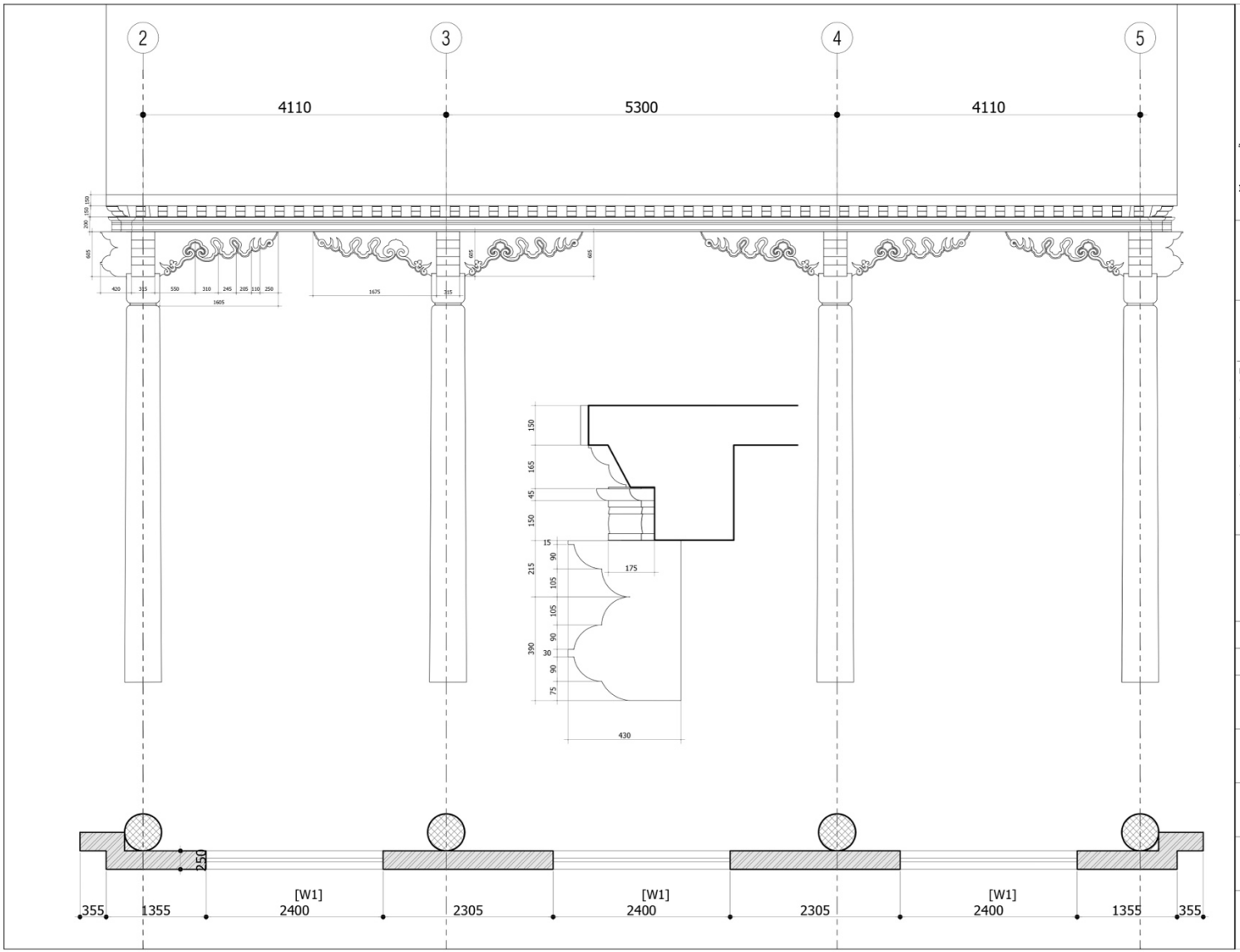
GANESH PRASAD CHAMLAGAI
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ཕུན་ཚོགས་ཀླུང་།།

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DRAWING TITLE

ZHU & KATCHEN DIMENSION

SCALE: 1:40

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STRUCTURAL DRAWING

PROPOSED CONSTRUCTION OF S+G+3+J SPS OFFICE

AGENCY:

BFDA

BHUTAN FOOD AND DRUG AUTHORITY

DESIGNED & DEVELOPED BY: **RoID-PHUNTSHOLING**

This Signature is applicable to all pages.
Mr. Ganesh Prasad Chamlagai
{Interium Head}

This Signature is applicable to all pages.
Mr. Mahesh Tamang {Engineer}

APRIL 2026

This Signature is applicable to all pages.
Mr. Samten Norbu {Engineer}

TABLE OF CONTENTS: ARCHITECTURAL

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OPENING SCHEDULE	DOOR AND WINDOW SCHEDULE	

DRAWING SYMBOLS

SYMBOLS	DETAIL
A — A	Building Section
A —	Wall Section
	Detail Section
1 A101	Exterior Elevation
Ground fl. lvl: +100	Elevation Target
W1	Window Number
D3	Door Number
ROOM NAME +0.00	Room Name / Levels
N	North Arrow
1 B	Column Grid and Bubbles
	Break Line

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ཕུན་ཚོགས་གླིང་།།

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DRAWING TITLE

CONTENT

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

ENDORSED BY:

DESIGNATION **(BFDA)**

PAGE

46

STRUCTURAL DESIGN NOTES & COMPLIANCE:

A. GENERAL:

1. Read the drawings in conjunction with the architectural drawings.
2. All dimensions are in mm (millimeters) unless specified.
3. Dimensions mentioned/specified refers to the unfinished surfaces of all structural components.
4. Dimensions shall be read & not be scaled/measured from the drawings.
5. All dimensions shall be verified before commencing any work.
6. Refer any discrepancy to design engineer before proceeding with the work.
7. Always refer additional notes provided in the drawing details.
8. Material and workmanship shall comply with the relevant standards included herein that are applicable to this works.
9. Contractors/Builders (site engineer) shall familiarize themselves with the entire drawings before proceeding with the construction & shall refer to designer for any clarifications.

B. DESIGN CODES:

1. IS 456: 2000 -Code of Practice for Plain and Reinforced Concrete.
2. IS 875: 1987 -Code of Practice for Design load for Buildings and Structures.
3. IS 19320: 2016 -Ductile Detailing of Reinforced Concrete Structures subjected to Seismic Forces.
4. IS 1893: 2016 -Seismic Resistant Design of Structures.
5. Building Code of Bhutan -2003 Manual for Timber Engineering (NUDC).
6. IS 1077: 1992 -Common Burnt clay building bricks.
7. IS 2185 (Part 1): 1979 -Concrete masonry units; hollow and solid concrete blocks.
- IS 2185 (Part 3); 1984 -Concrete masonry units; Autoclaved cellular aerated concrete blocks.

C. DESIGN LOADS

1. Dead Loads:

- Unit weight of Stone Masonry - 23.5 KN/m^3
- Unit weight of Brick (Wet) - 19.0 KN/m^3
- Unit weigh of Autoclave Aerated Concrete (AAC) Blocks - 8.0 KN/m^3
- Unit weight of Reinforced Concrete(RC) - 25 KN/m^3
- Unit weight of Plain Concrete - 24 KN/m^3
- Floor Finish - 1.0 KN/m^3
- Unit wight of Timber - 6.0 KN/m^3

2. Imposed/Live Loads:

- Live load on Ground Floor - 4.0 KN/m^2
- Live load rest on First Floor (Residential) - 2.0 KN/m^2
- Snow load on Roof - 1.0 KN/m^2
- Imposed load on Staircase - 5.0 KN/m^2
- Imposed load on Accessible Roof - 1.5 KN/m^2

3. Wind Load:

- Basic wind speed 45 m/s
- Building class A
- Terrain category II

4. Earthquake Load:

- Design Basis Earthquake Load as per - IS 1893 (Part 1): 2016

D. ANALYSIS

1. Both static equivalent analysis and response spectrum dynamic analysis have been carried out for the structure, as per IS 1893 (Part 1): 2016,
2. To calculate the natural period of the structure, the moment resisting frames of the structure has been assumed to be bare and without any masonry infill.
3. To maintain a higher degree of factor of safety and also to account for deficiencies in design; diaphragm action of the slabs have not been considered.
4. ETABS & STAADPro. are used for the purpose of analyzing the structure.

E. CONCRETE

a. Concrete quality shall comply with IS 456: 2000.
b. Grade of concrete shall be M25 (1:1:2) for all the main structural elements (i.e., foundations, columns, beams, slabs, etc.). MIS (1:2:4) for all lintel works and MIO (1:3:6) for all PCC works.
c. Concrete section as drawn are minimum and does not include applied finishes.
d. Only mechanical vibration is advised and care should be taken to avoid segregation of ingredients. The vibration time at each spot is approximately five seconds
e. Do not make any unspecified holes or chisels without engineers approval. Do not place conduits, pipes etc. through the structural members
f. Workability of concrete shall be in accordance with IS 1199.

1. Cement:

a. The cement used shall be any of the following type:
- 33, 43, 53 Grade Ordinary Portland Cement (OPC) conforming to IS 269, IS 8112 & IS 12269 respectively.
- Portland Pozzolana Cement (PPC) (Fly Ash based) conforming to IS 1489 (Part 1).
- Preferences shall be given to PPC over OPC if both are available.

b. A minimum cement content of 300 kg/m shall be maintained for concretes of grade M20 & M25 with 20mm size aggregates.

2. Aggregates:

- Aggregates shall comply with the requirements of IS 383 and as far as possible preference shall be given to natural aggregates.
- Nominal size of coarse aggregate shall be 20mm. Where there is no restriction to the flow of concrete into sections, 40mm or larger size may be permitted.
- In thin concrete sections, closely spaced reinforcement or small cover, use of smaller aggregates can be allowed but proper mix ratio should be used to maintain the minimum strength required
- Coarse and fine aggregate shall be batched separately. All-in-aggregate may be used only where specifically permitted by the engineer-in-charge.

3. Water:

- Water used for mixing and curing shall be clean and free from injurious amounts of oils, acids, alkalis, slats, sugar or other substances that may be deleterious to concrete or steel. Generally, potable water is considered satisfactory for mixing concrete.
- The pH value of water shall not be less than 6.
- Maximum permissible free water-cement ratio for concretes of grade M20 & M25 shall be 0.55
  & 0.50 respectively.

4. Curing:
a. All concrete elements without exception shall be cured as per IS 456: 2000.
b. Moist Curing: Exposed surfaces of concrete shall be kept continuously in a damp or wet condition by ponding or by covering with a layer of sacking, canvas or similar materials and kept constantly wet for at least 7 days, in case of ordinary Portland Cement. The period of curing shall not be less than 10 days for concrete exposed to dry and hot weather conditions.
c. Membrane Curing: Approved curing compounds permitted by the engineer-in-charge shall be applied to all exposed surfaces of the concrete as soon as possible after the concrete has set.
d. Impermeable membranes such as polyethylene sheeting covering closely the concrete surface may also be used to provide effective barrier against evaporation.

F. FORM WORK:

1. Quality of form works shall be in accordance with IS 456: 2000
2. The form work shall be designed and constructed as per IS 14687, so as to remain sufficiently rigid during placing and compaction of concrete, and shall be such as to prevent loss of slurry form the concrete.
3. Stripping of form works shall also comply with clause 11.3 of IS 456: 2000.
4. The concrete receiving face of the form work shall be very smooth and firmed
5. Deviations of +12mm or -6mm, maximum, are permissible for all structural members.

G. REINFORCEMENT STEEL:

1. Grade of steel for all RC works shall be Fe 500 TMT (SQCA approved brands only).
2. All reinforcement shall be free from loose mill scales, loose rust and coats of paints, oil, mud or any other substances which may destroy or reduce bond. Sand blasting or other treatment is recommended to clean reinforcement.
3. The modulus of elasticity of steel shall be taken as 200 KN/mm?. The characteristic yield strength of steel shall be assumed as the minimum yield stress / 0.2 percent proof stress specified in the relevant Indian Standard
4. Reinforcement shall be bent and fixed in accordance with procedure specified in IS 2502. The high strength deformed steel bars should not be re-bent.
5. Rough handling, shock loading (prior to embedment) and dropping of reinforcement from a height should be avoided. Reinforcement should be secured against displacement outside the specified limits
6. Unless otherwise specified by the engineer-in-charge, the reinforcements shall be placed within the following tolerances:

   For effective depth 200mm or less : ±10mm
   For effective depth more than 200mm : ±15mm

7. Unless specified otherwise, actual concrete cover should not deviate from the required nominal cover by ±10mm.
8. Spacers, chairs and other supports detailed on drawings, together with such other supports as may be necessary, should be used to maintain the specified cover to the steel reinforcements
9. Spaces or chairs should be placed at a maximum spacing of Im and closer spacing may sometimes be necessary. Spacers, cover blocks should be of concrete of same strength or PVC.
10. The minimum cover to be provided to the outermost main reinforcement from the concrete surface, for protection against external environment and to withstand fire for 1.5 hours, shall not be less the following:

a. Foundation : 50 mm
b. Column : 40 mm
c. Beam : 25 mm
d. Slab : 20 mm
e. Staircase : 20 mm

H. TIMBER:

1. All structural timber shall conform to the IS 883.
2. Moisture content of the structural timber member shall not exceed 12%.
3. All structural timber shall have a minimum allowable bending stress 'fb' of 7 MPa, a minimum allowable horizontal shear stress 'fv' of 0.6 MPa, and a minimum modulus of elasticity 'e' of 9800 MPa.

I. MASONRY WORKS:

1. Mortar for masonry (Red bricks or locally available concrete blocks, hollow or solid) works shall be 1:4 (CM) or richer.
2. Mortar for AAC blocks/bricks shall be AAC Block Adhesives (as per ISO - 9001 - 2004), which are readily availbale in the market.
3. Masonry walls shall be provided with horizontal & vertical reinforcements of 100@700mm. RC bands at lintels of openings and at T and L junctions of projected walls shall be connected properly with the RC frame elements (column, beam & slab).
4. All exterior masonry walls shall be prevented from out-of-plane failures by providing reinforcement shown in the details.

J. WELDING AND BOLTING:

1. All welding works shall be carried out in accordance with IS 816: 1969, IS 819: 1957, IS 1024: 1979, IS 1261:1959, IS 1323: 1982 and IS: 9595: 1980 as appropriate.
2. The strength of electrode used for welding shall be equal to or greater than the strength of member that is being welded.
3. All welds shall be complete penctration butt welds.
4. All bolts shall be high strength friction grip and galvanized in accordance with IS 3757: 1967 and IS 800:1984
5. All members of steel shall be dry and thoroughly cleaned from all loose scale and rust prior to painting
6. The members shall be provided with coat of zinc coating.

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REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

{ROID}

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

AGENCY

BFDA

NOTES:
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE.
- ALL LEVELS GIVEN w.r.t. ±0.000 AS UNFINISHED LEVEL OF BUILDING.
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DRAWING TITLE

STRUCTURAL NOTES

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

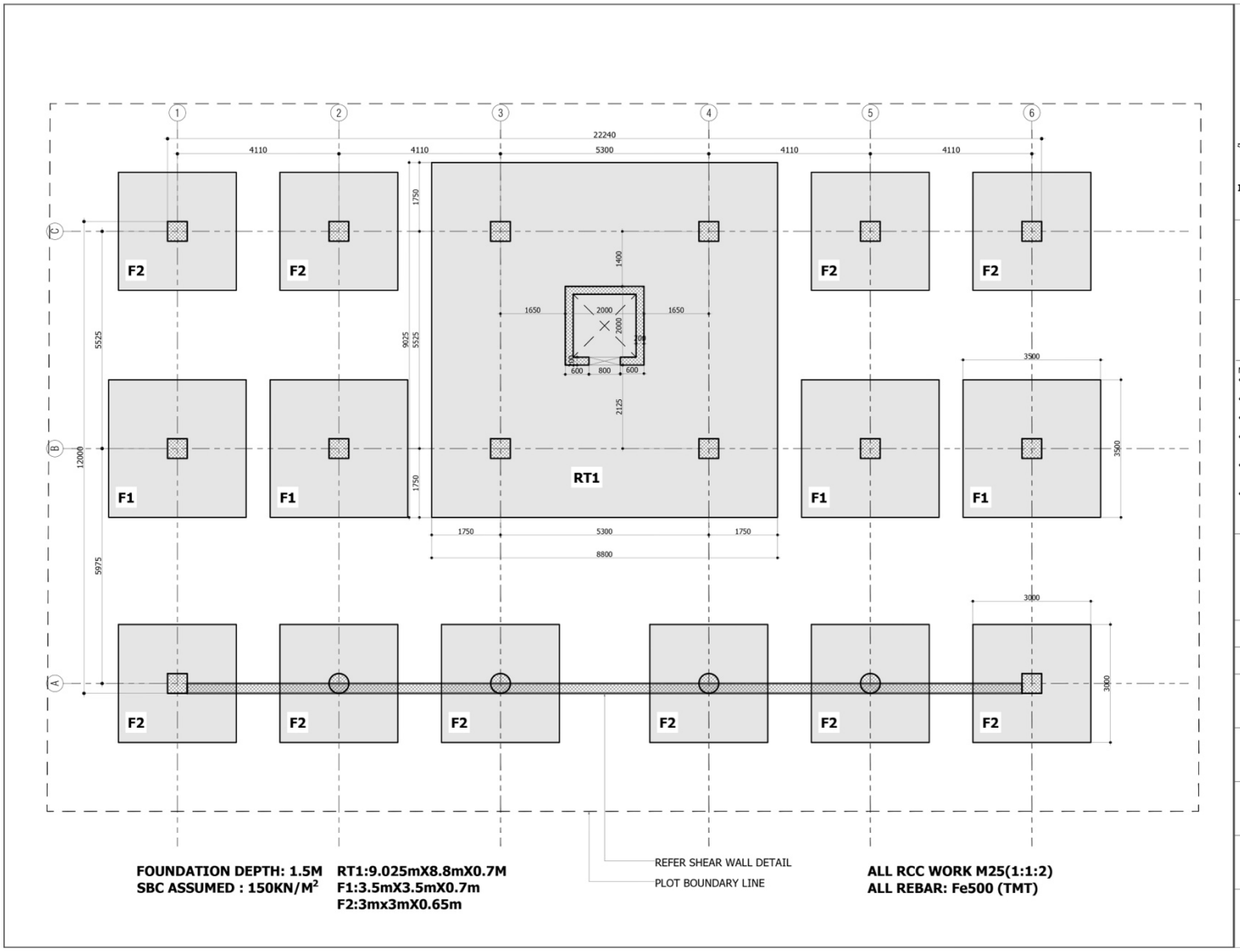
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DRAWING TITLE

FOOTING LAYOUT PLAN

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

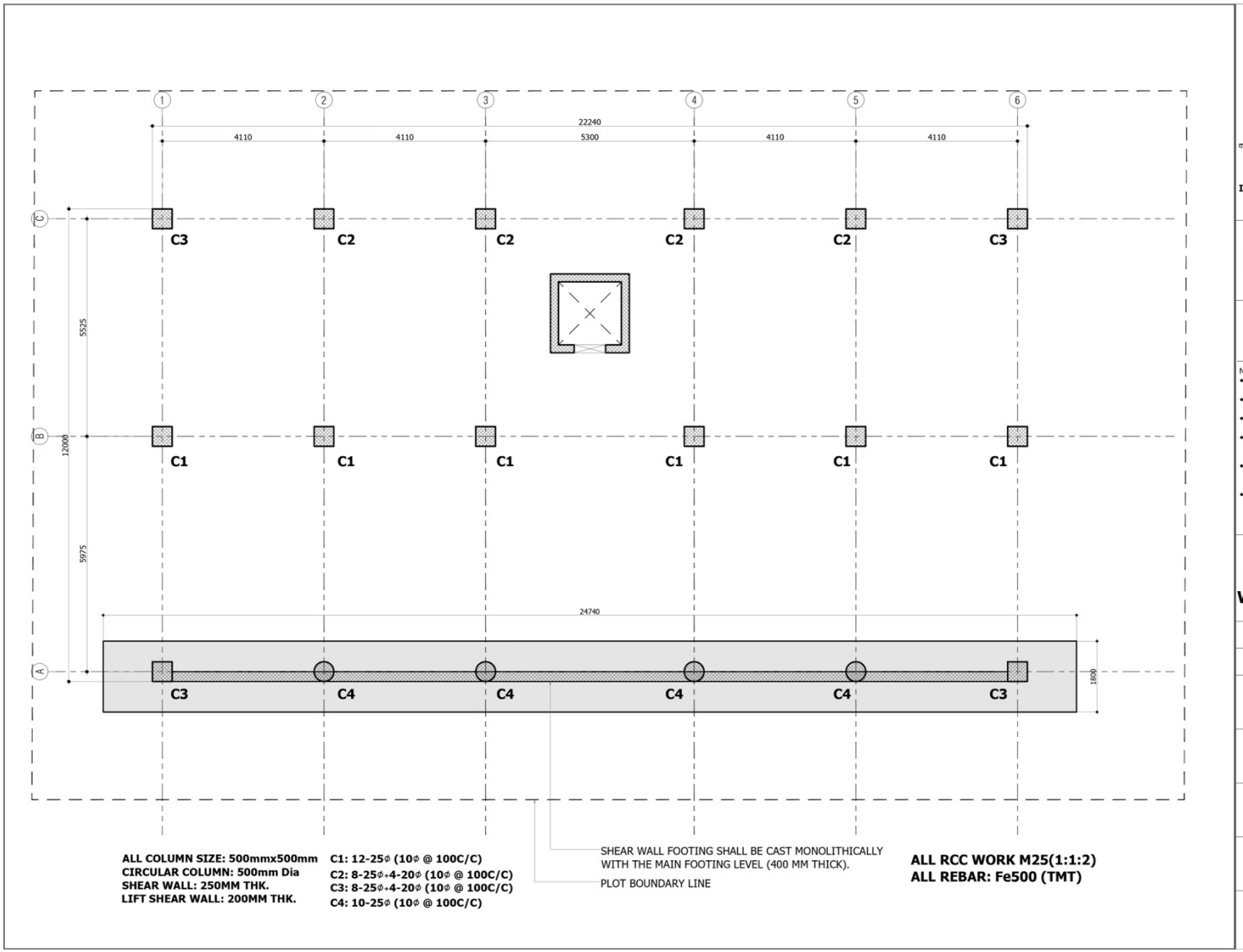
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DRAWING TITLE

COLUMN & SHEAR WALL LAYOUT PLAN

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

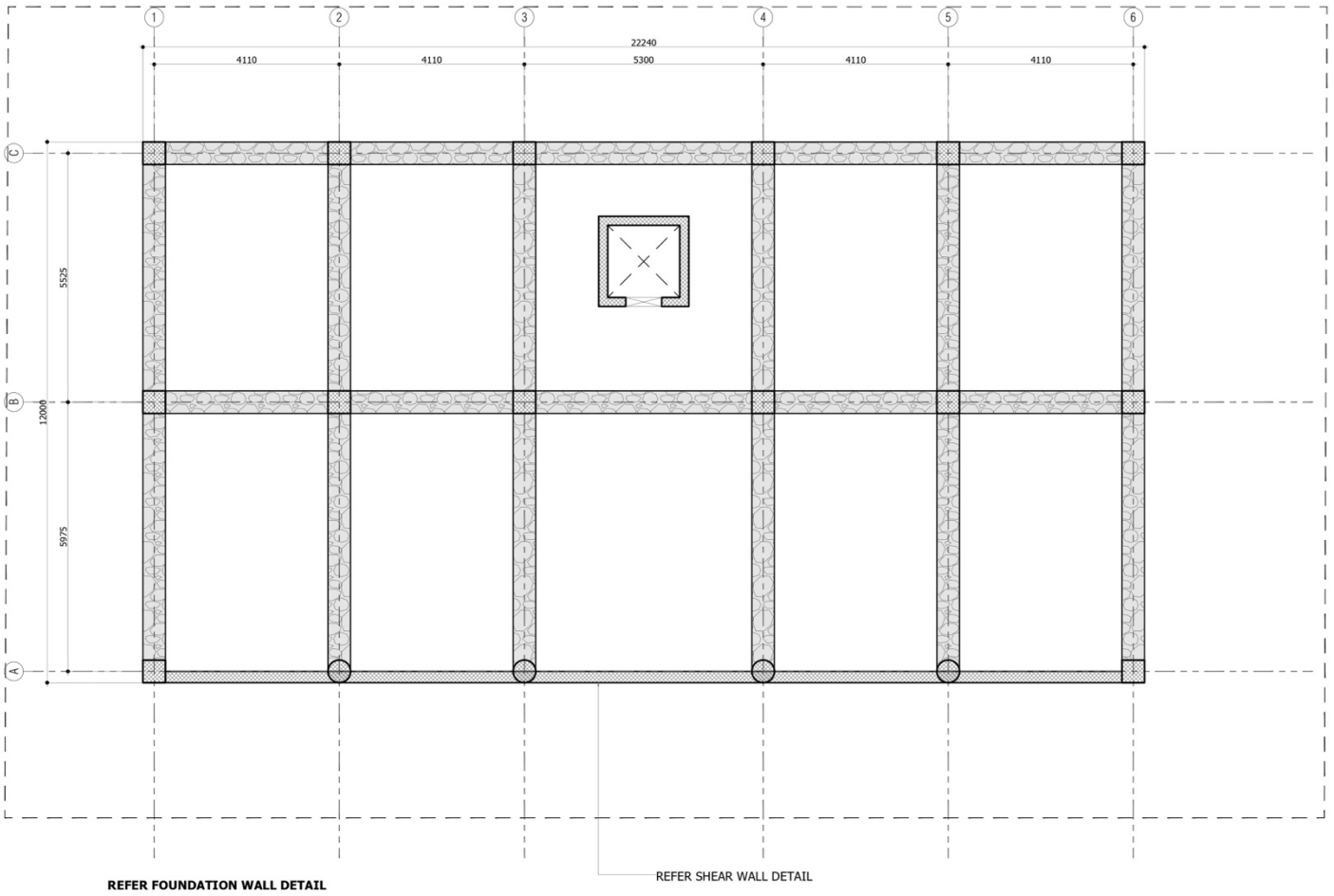
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(ROID)

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DRAWING TITLE

FOUNDATION WALL LAYOUT PLAN

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

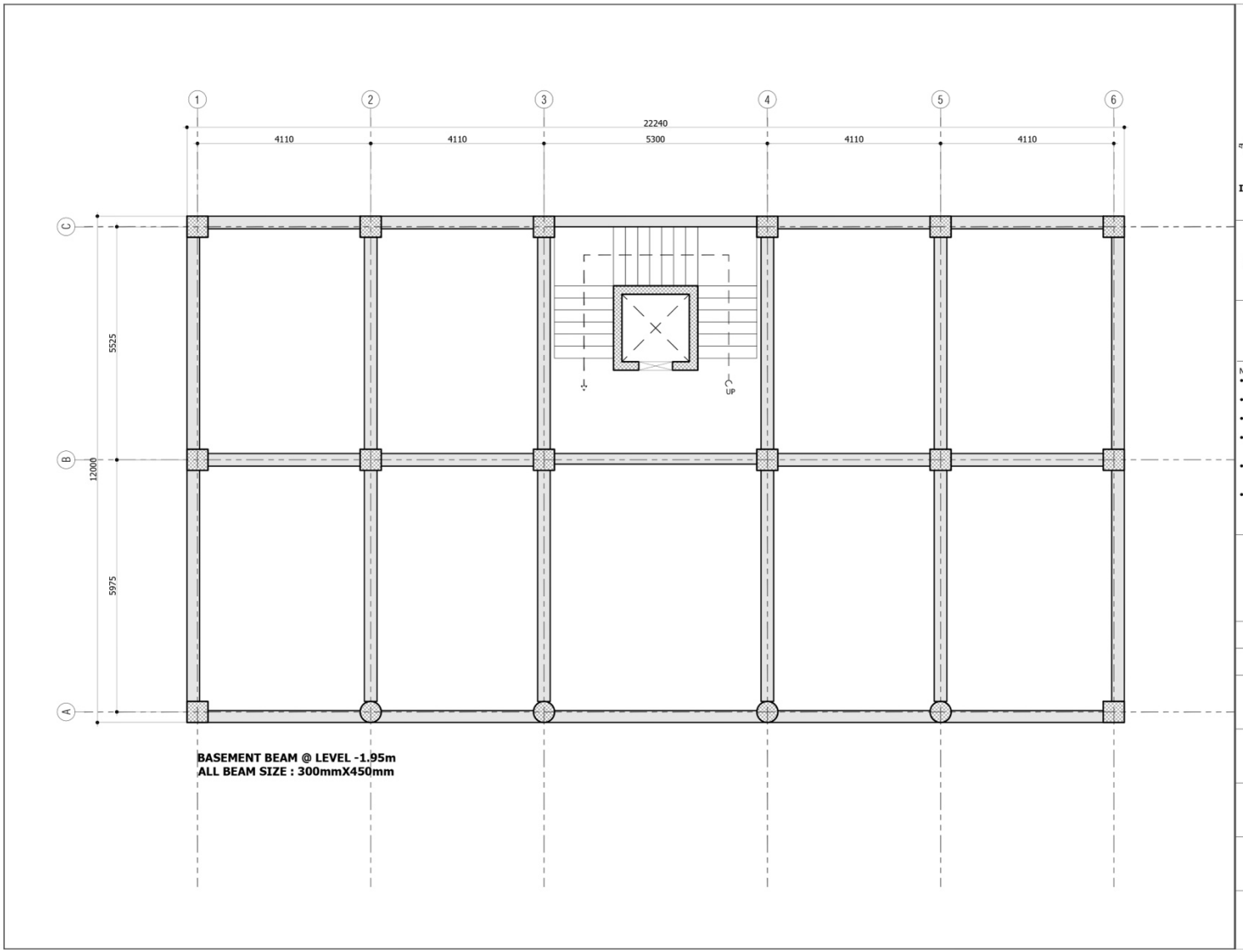
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DRAWING TITLE

BASEMENT BEAM LAYOUT PLAN

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

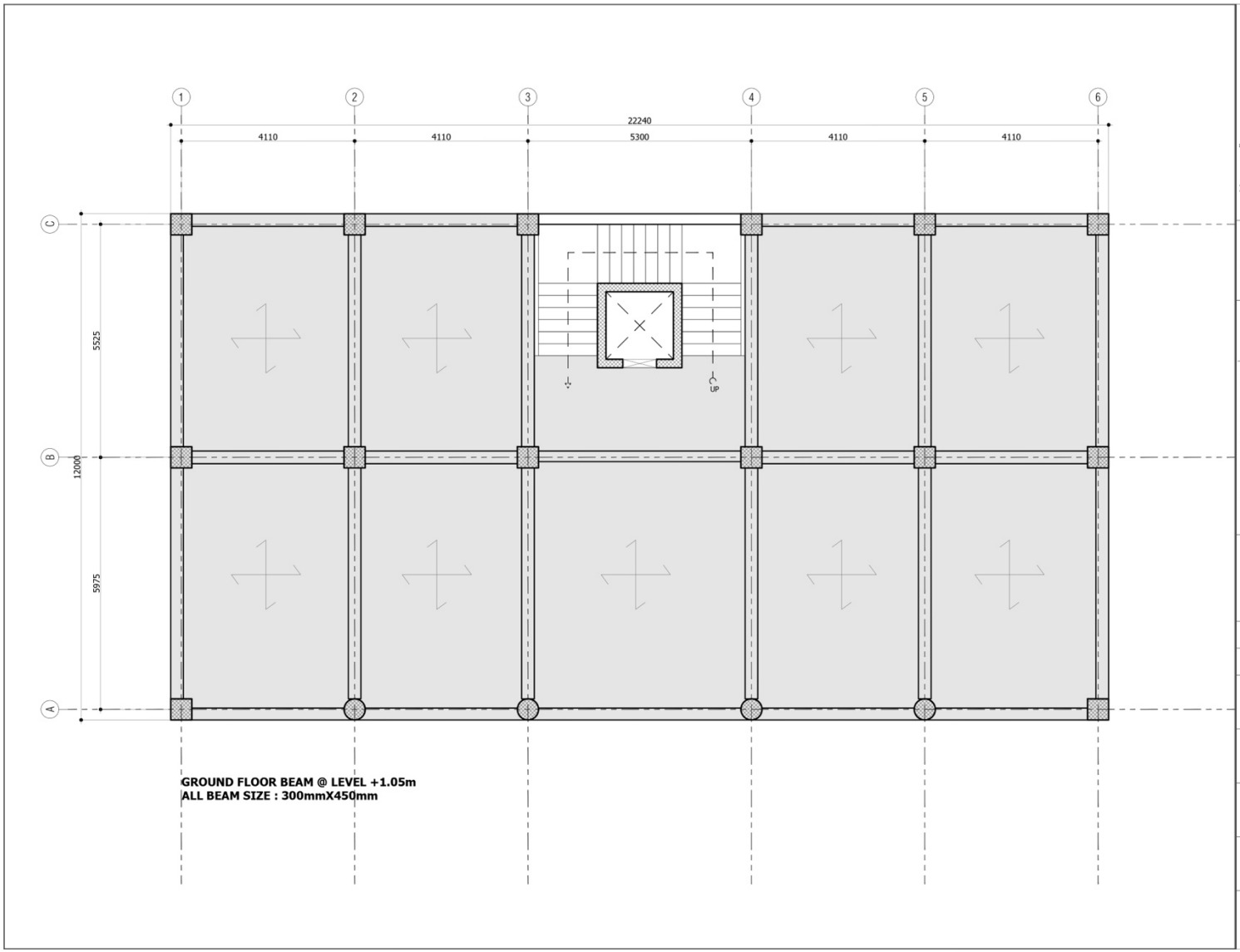
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DRAWING TITLE

GROUND FLOOR BEAM LAYOUT PLAN

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

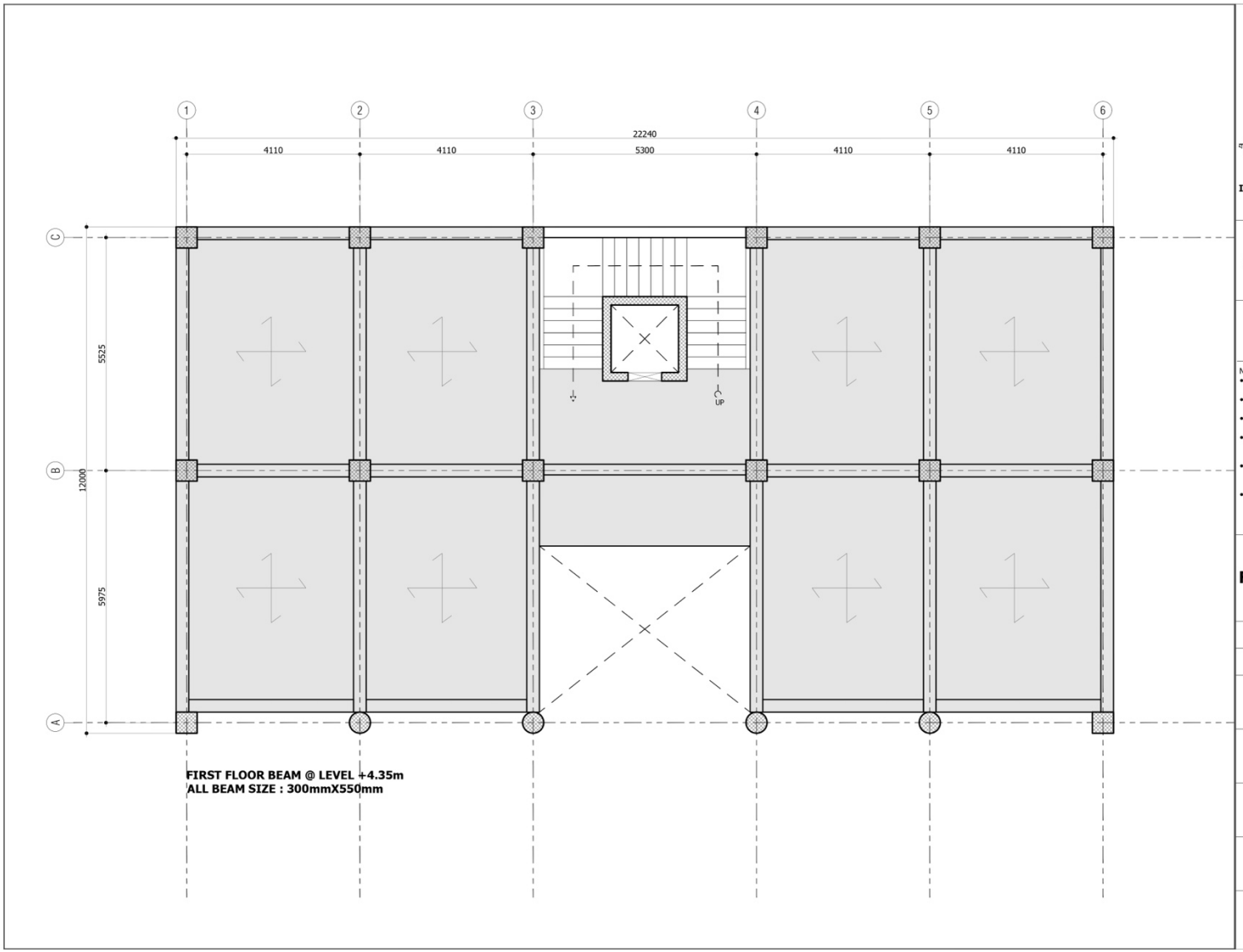
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DRAWING TITLE

FIRST FLOOR BEAM LAYOUT PLAN

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

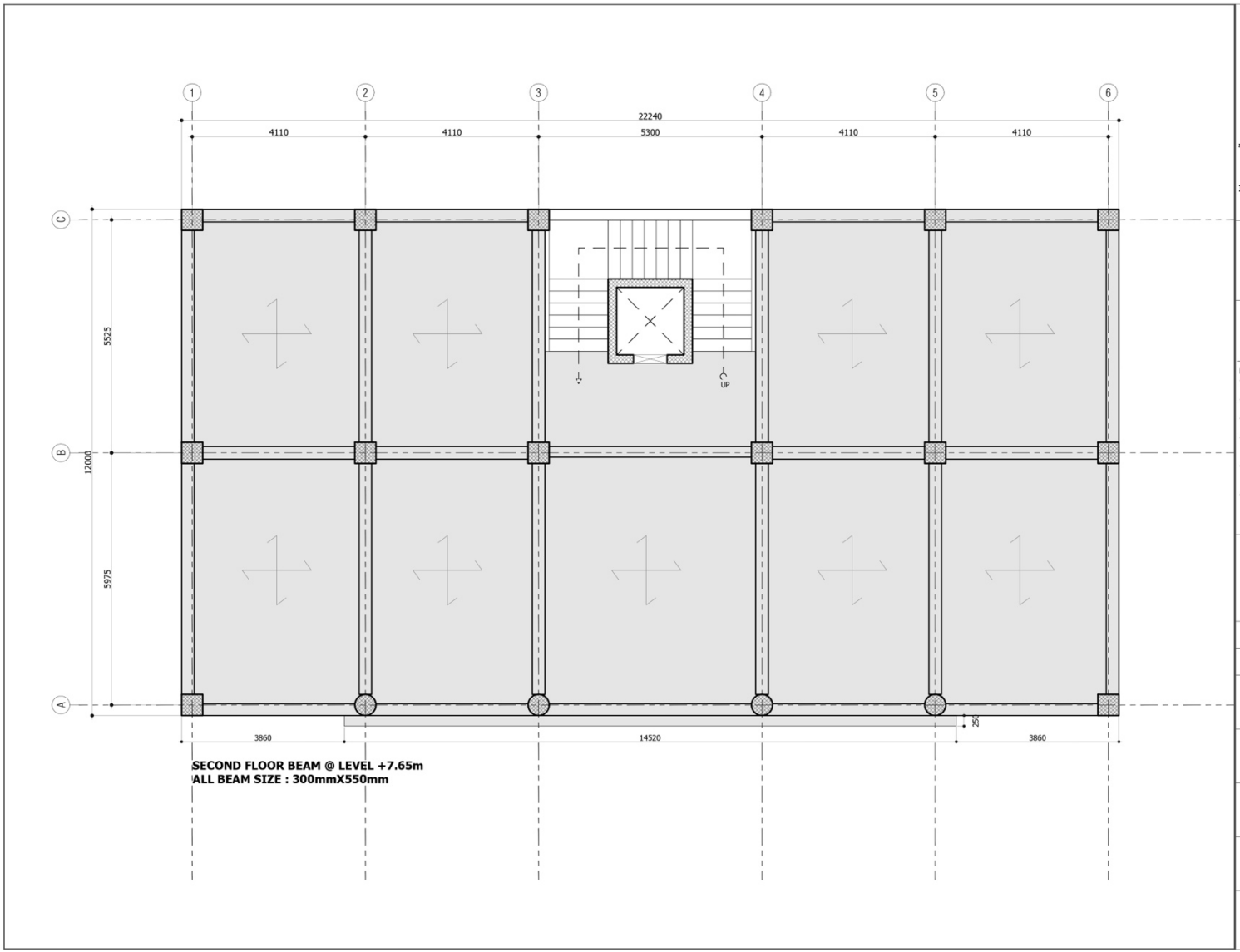
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ཕུན་ཚོགས་སྒྲིང་།།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

(ROID)

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

AGENCY

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DRAWING TITLE

SECOND FLOOR BEAM LAYOUT PLAN

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

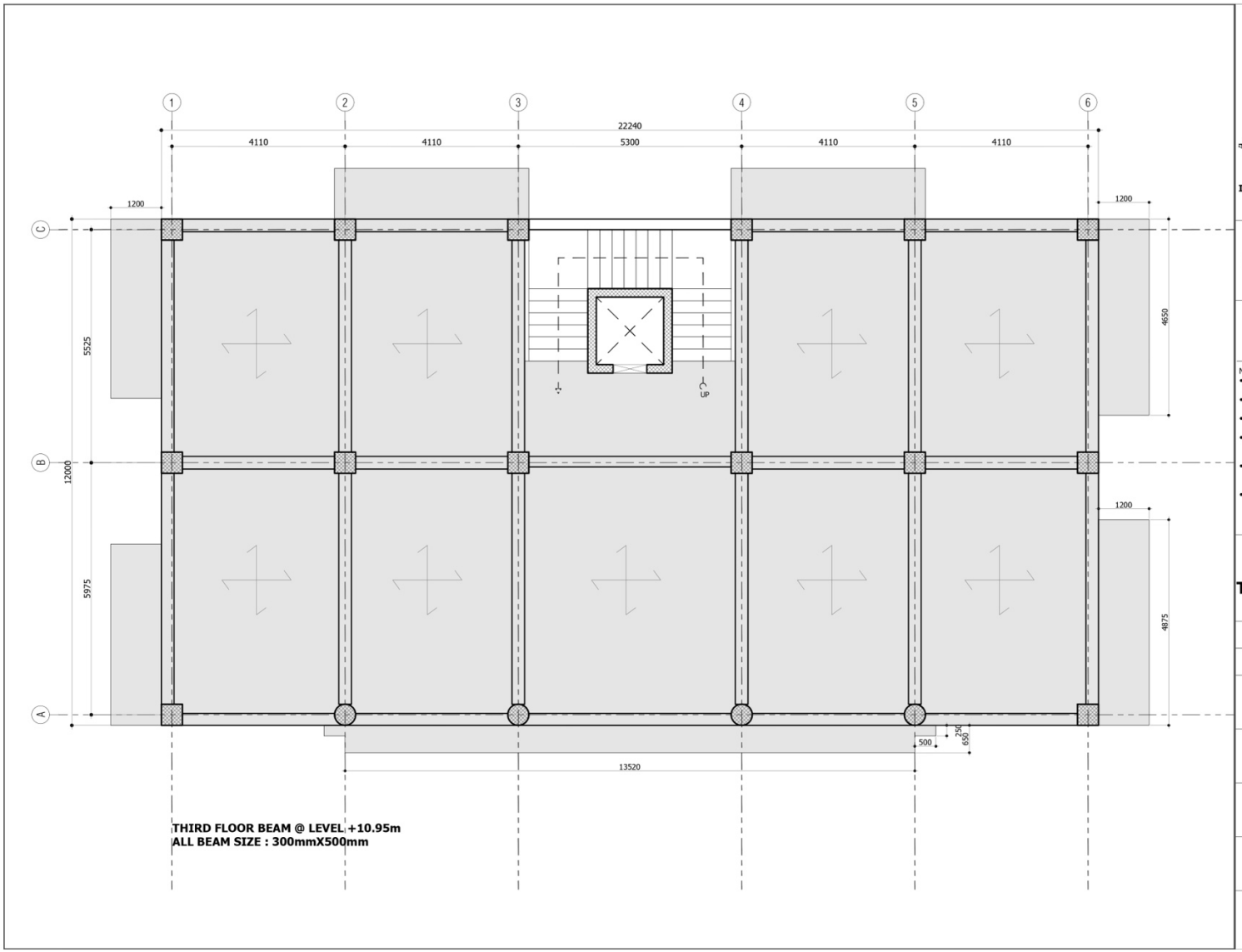
GANESH PRASAD CHAMLAGAI
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DESIGNATION **(BFDA)**

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REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

{ROID}

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

AGENCY

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DRAWING TITLE

THIRD FLOOR BEAM LAYOUT PLAN

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

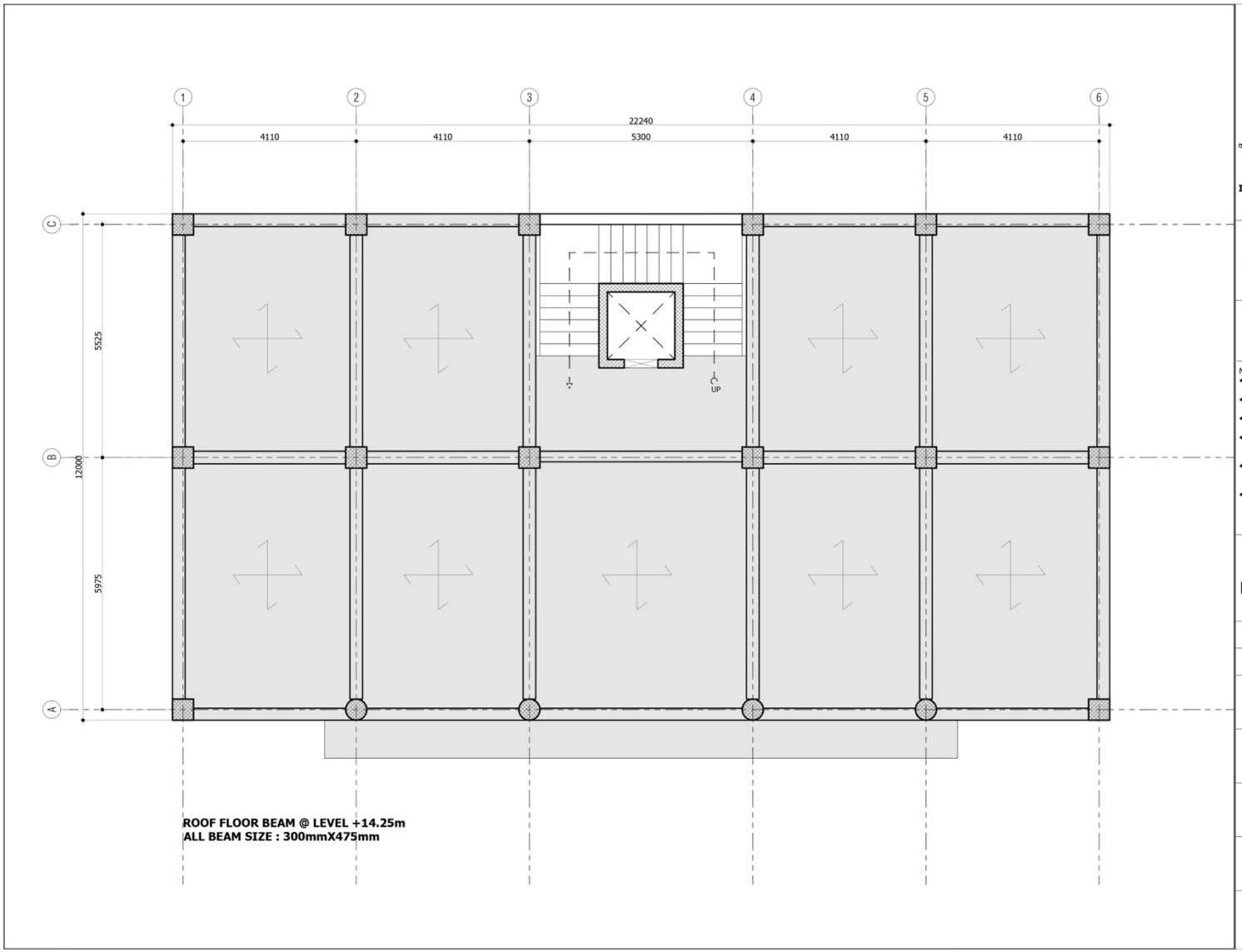
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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DESIGNATION (BFDA)

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REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

{ROID}

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

AGENCY

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DRAWING TITLE

ROOF FLOOR BEAM LAYOUT PLAN

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

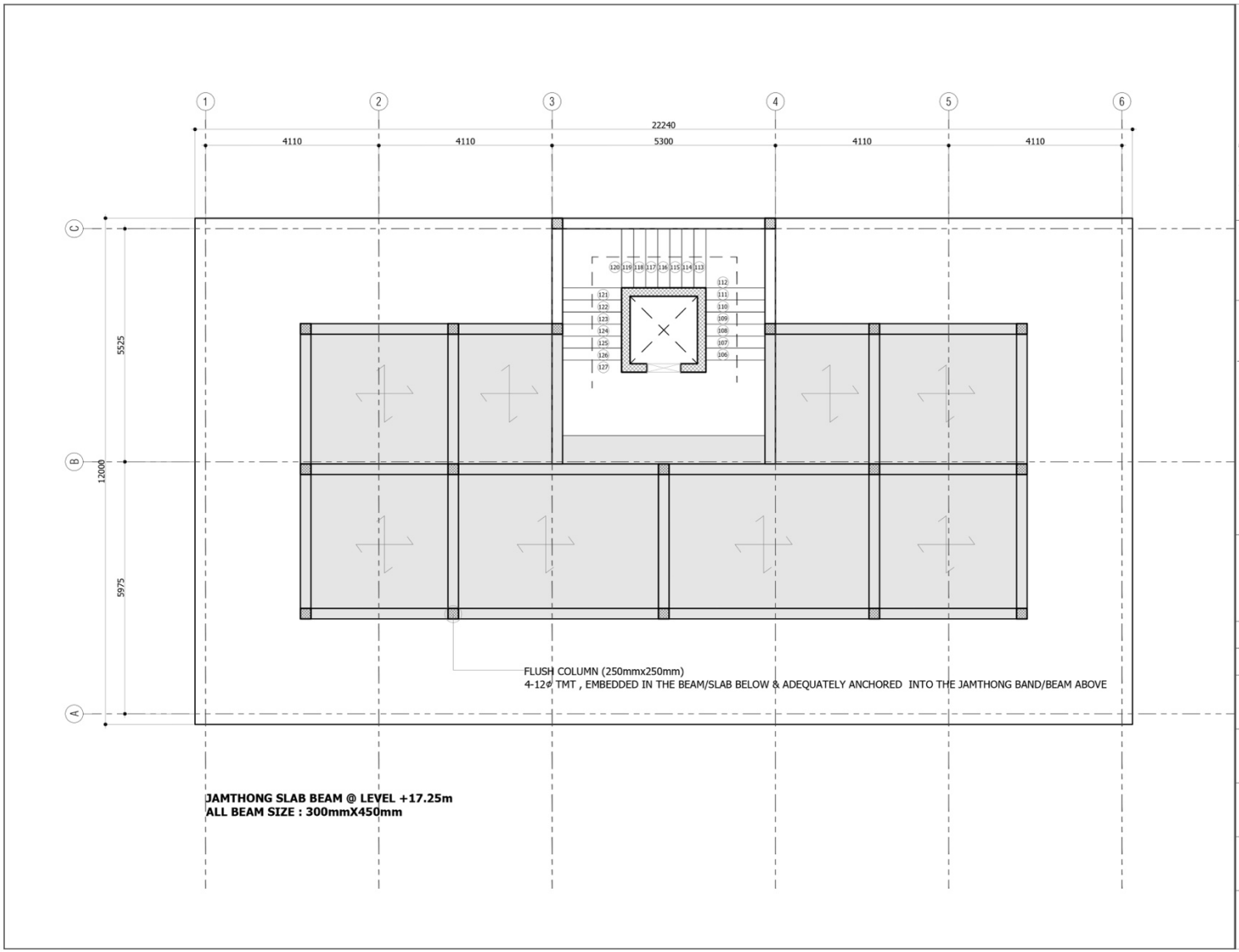
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REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING
(ROID)

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

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DRAWING TITLE

JAMTHONG SLAB LEVEL BEAM LAYOUT

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

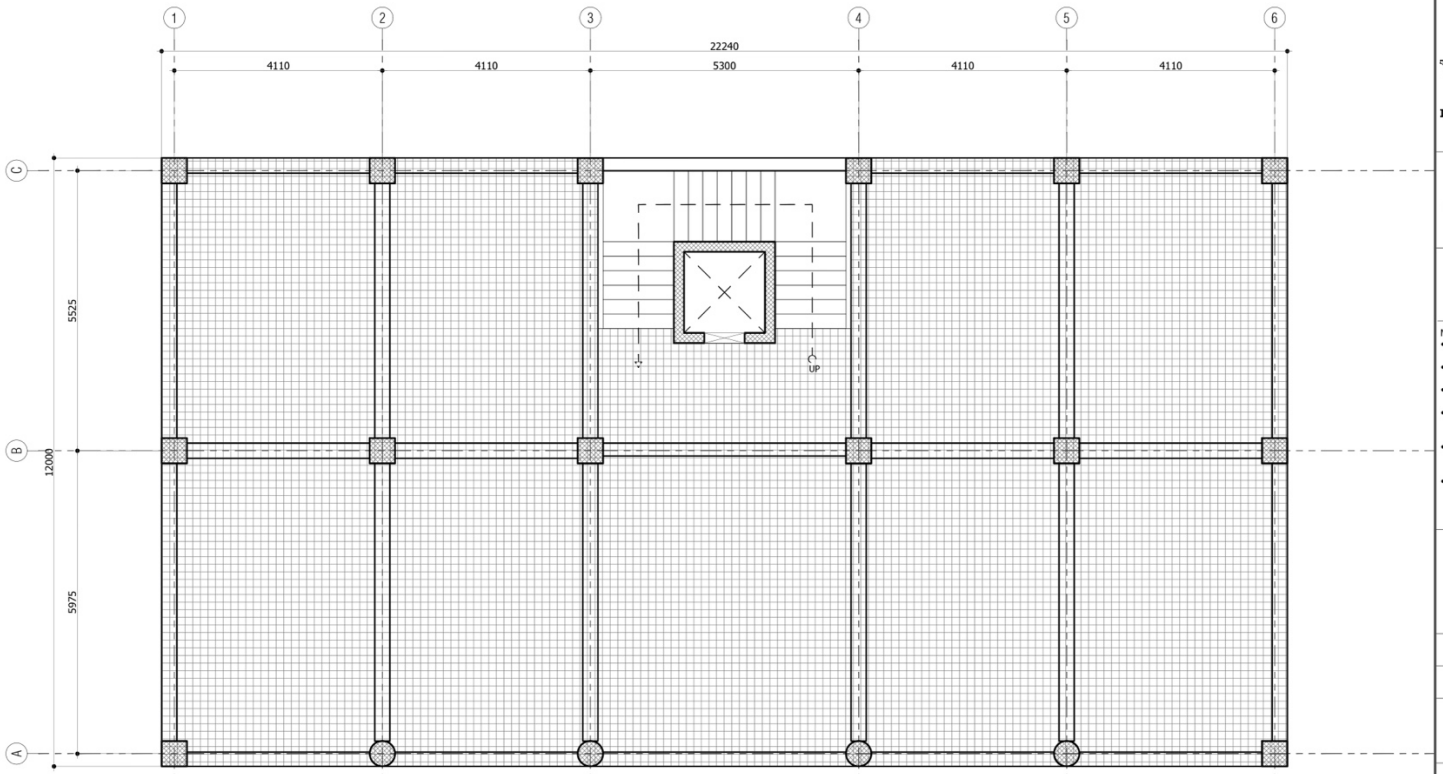
GANESH PRASAD CHAMLAGAI
(INTERIM HEAD)

ENDORSED BY:

DESIGNATION **(BFDA)**

PAGE

46



- Slab rebar shall be extended wherever necessary for the cornice projects (refer arch. dwg. for projections)
- The main reinforcement shall be place at bottom in the shorter direction of the slab Panel
- Provide adequate bar chairs and concrete cover blocks to maintain reinforcement position and achieve require cover
- Refer Electrical drawing/Consult Electrical Engineer for provision of electrical conduits
- **Refer Slab Notes for slab further details**

DETAIL

1. Thickness of Slab. 150mm (Two- way Slab)
2. Cover to slab: 30mm
3. Reinforcement .
   :Bottom reinforcement: 10mm Ø @ 150 c/c both ways
   :Top reinforcement 10 mm Ø @ 150 c/c both ways



REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

[ROID]

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

AGENCY

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DRAWING TITLE

GF SLAB BOTTOM REINF. PLAN

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

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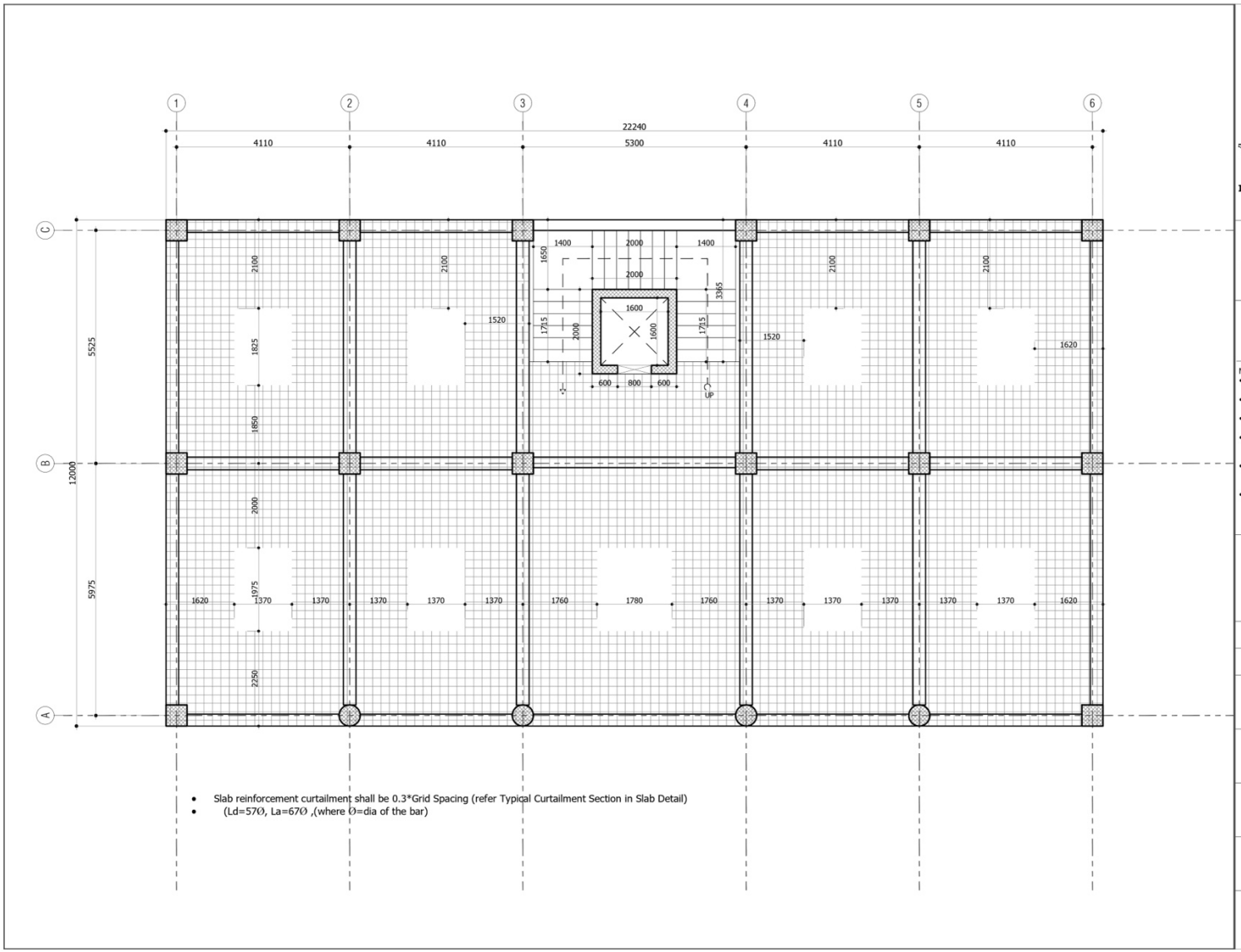
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DRAWING TITLE

GF SLAB TOP REINF. PLAN

SCALE: NTS

5/5/2026

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DRAWN BY:

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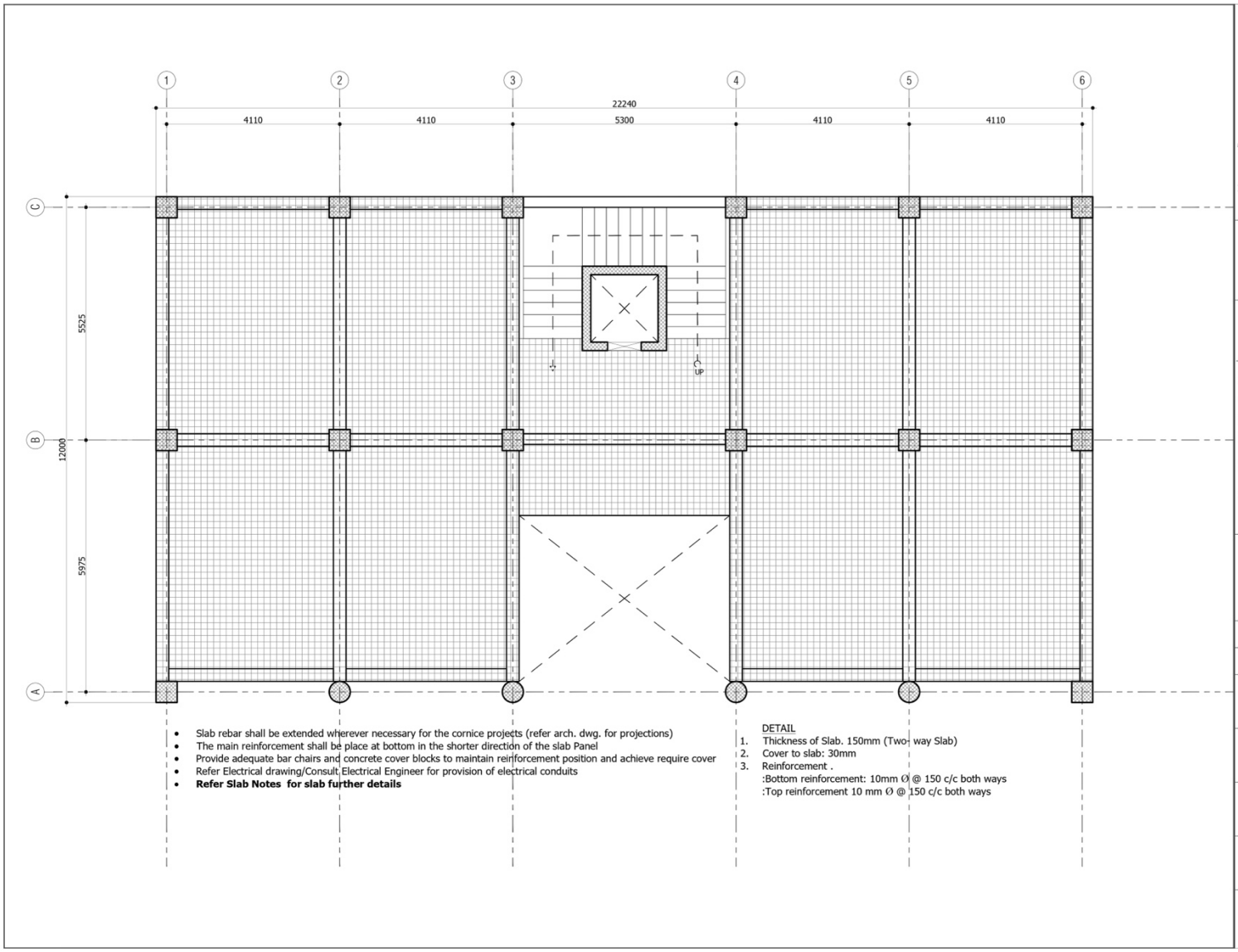
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- **Refer Slab Notes for slab further details**

DETAIL

1. Thickness of Slab. 150mm (Two- way Slab)
2. Cover to slab: 30mm
3. Reinforcement .
   :Bottom reinforcement: 10mm Ø @ 150 c/c both ways
   :Top reinforcement 10 mm Ø @ 150 c/c both ways



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DRAWING TITLE

FF SLAB BOTTOM REINF. PLAN

SCALE: NTS

5/5/2026

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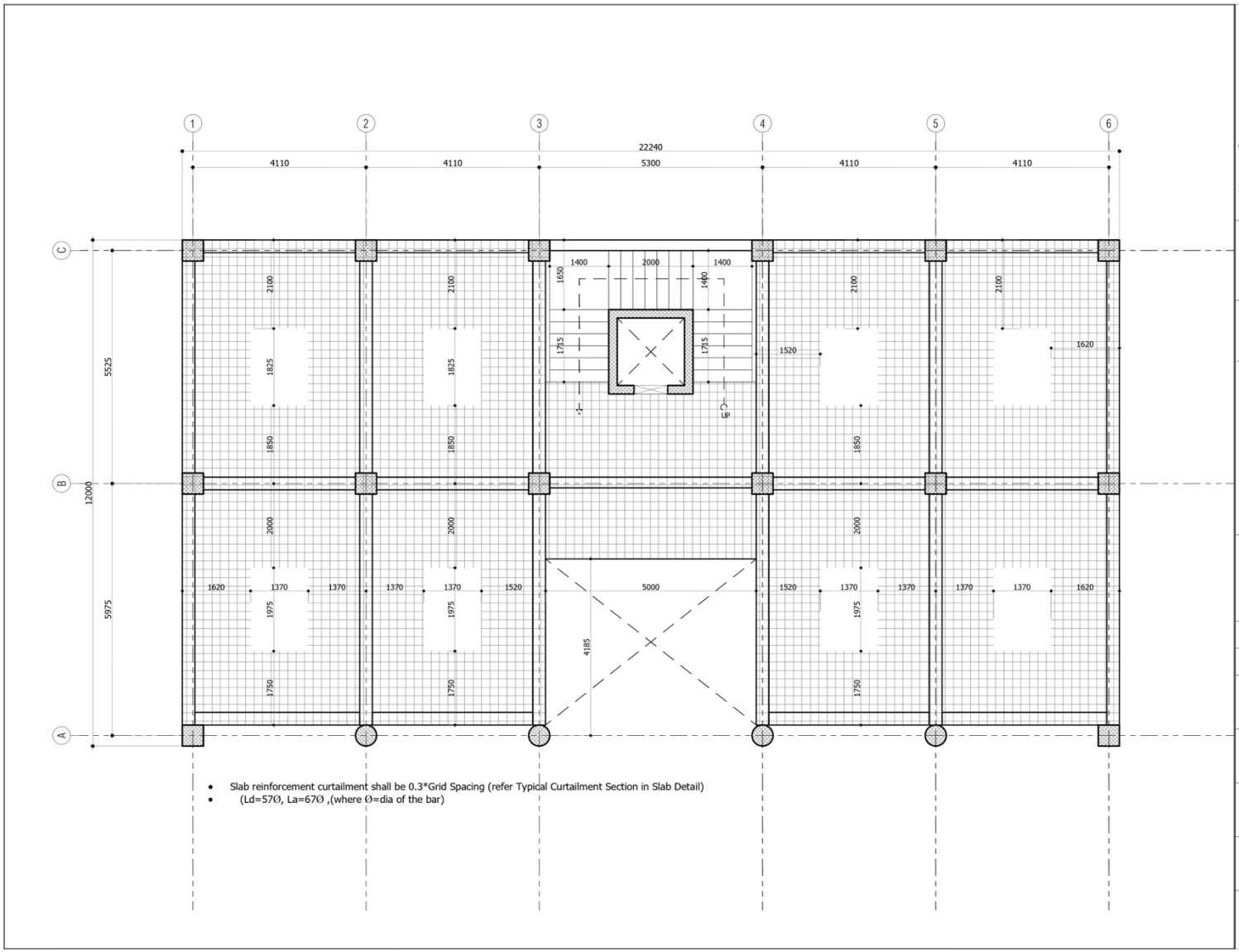
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FF SLAB TOP REINF. PLAN

SCALE: NTS

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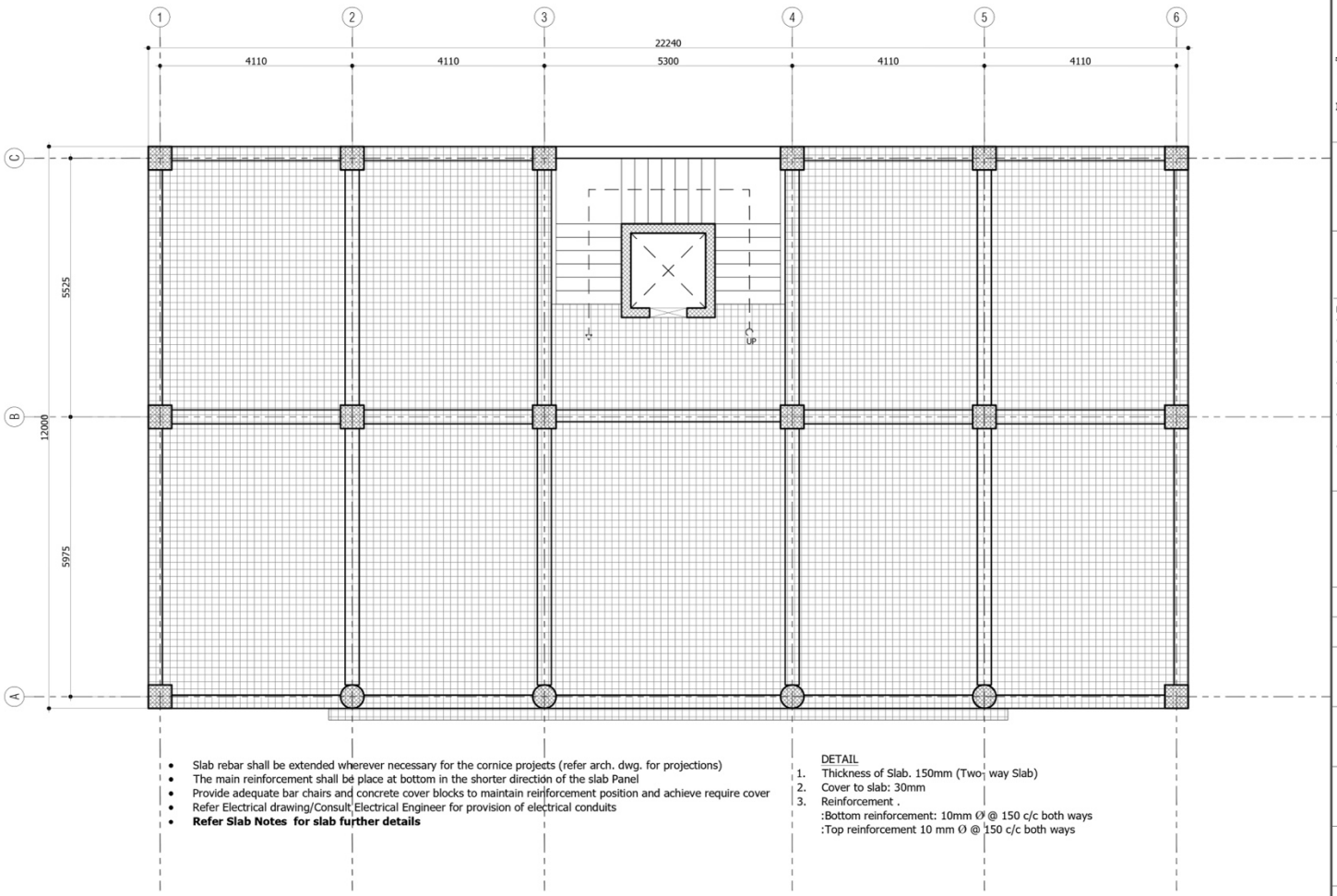
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DRAWING TITLE

SF SLAB BOTTOM REINF. PLAN

SCALE: NTS

5/5/2026

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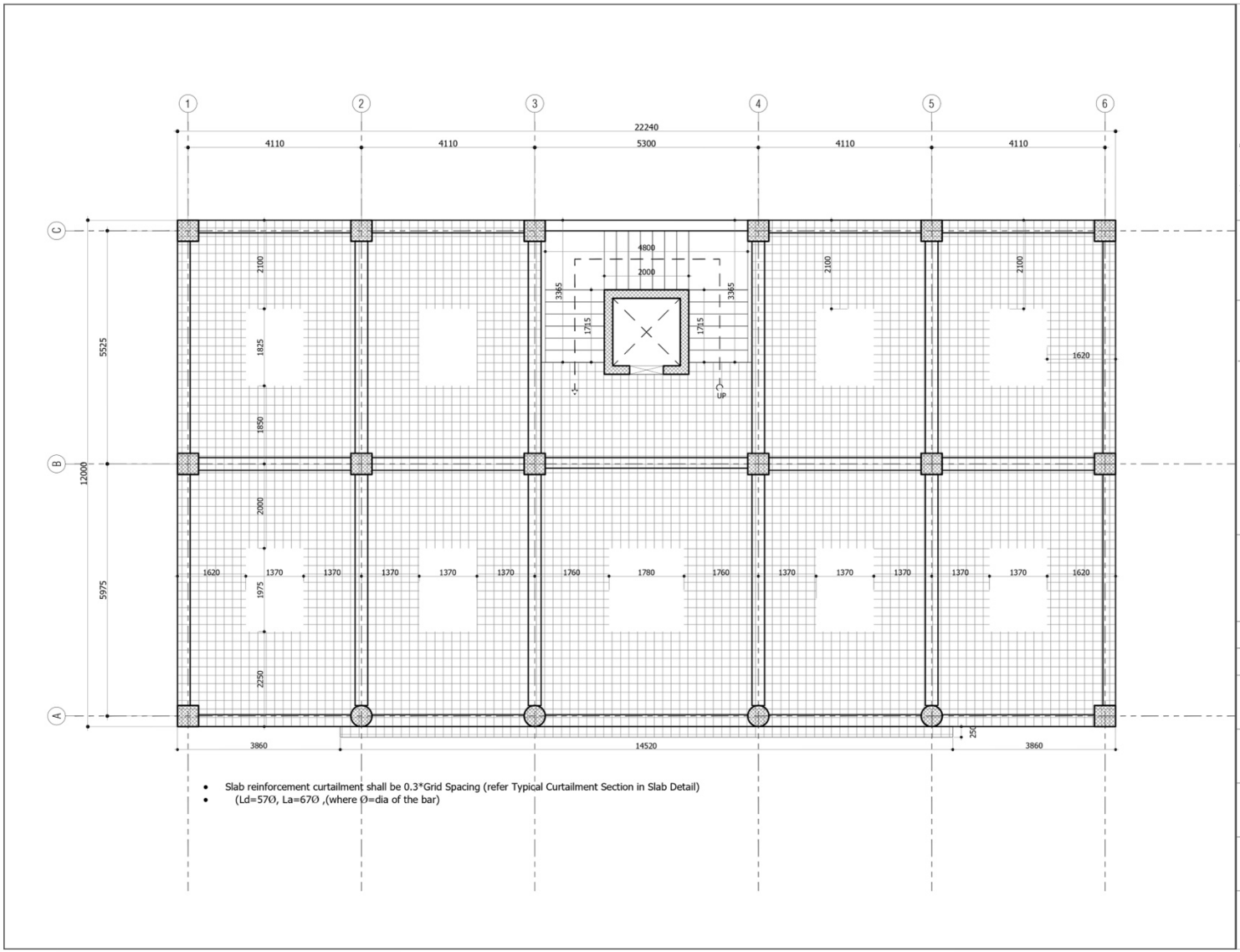
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- Slab reinforcement curtailment shall be 0.3*Grid Spacing (refer Typical Curtailment Section in Slab Detail)
- (Ld=57Ø, La=67Ø ,(where Ø=dia of the bar)

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING
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DRAWING TITLE

SF SLAB TOP REINF. PLAN

SCALE: NTS

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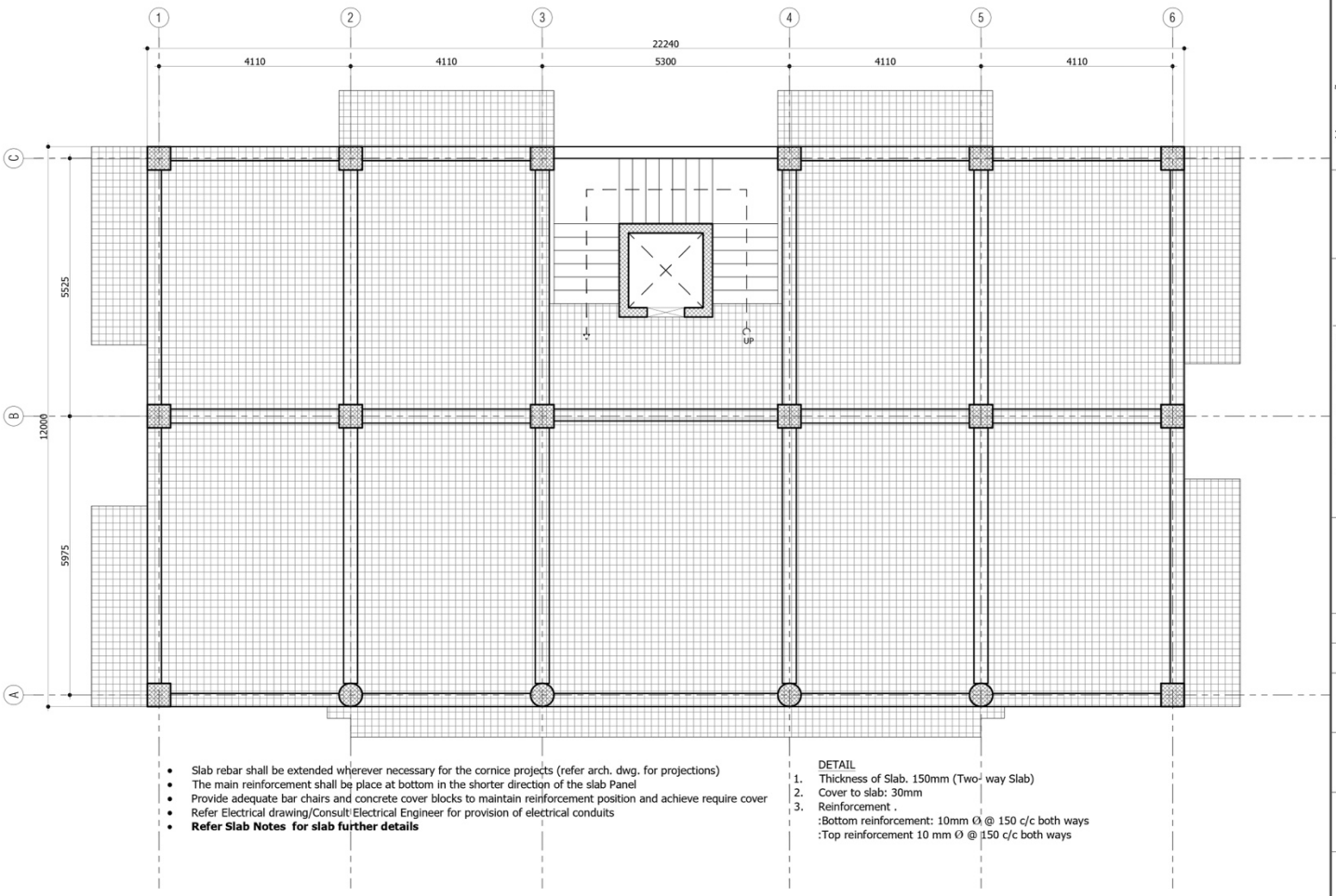
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- Refer Electrical drawing/Consult Electrical Engineer for provision of electrical conduits
- **Refer Slab Notes for slab further details**

DETAIL

1. Thickness of Slab. 150mm (Two- way Slab)
2. Cover to slab: 30mm
3. Reinforcement .
   :Bottom reinforcement: 10mm Ø @ 150 c/c both ways
   :Top reinforcement 10 mm Ø @ 150 c/c both ways

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DRAWING TITLE

TF SLAB BOTTOM REINF. PLAN

SCALE: NTS

5/5/2026

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DRAWN BY:

SAMTEN NORBU (ENGINEER)

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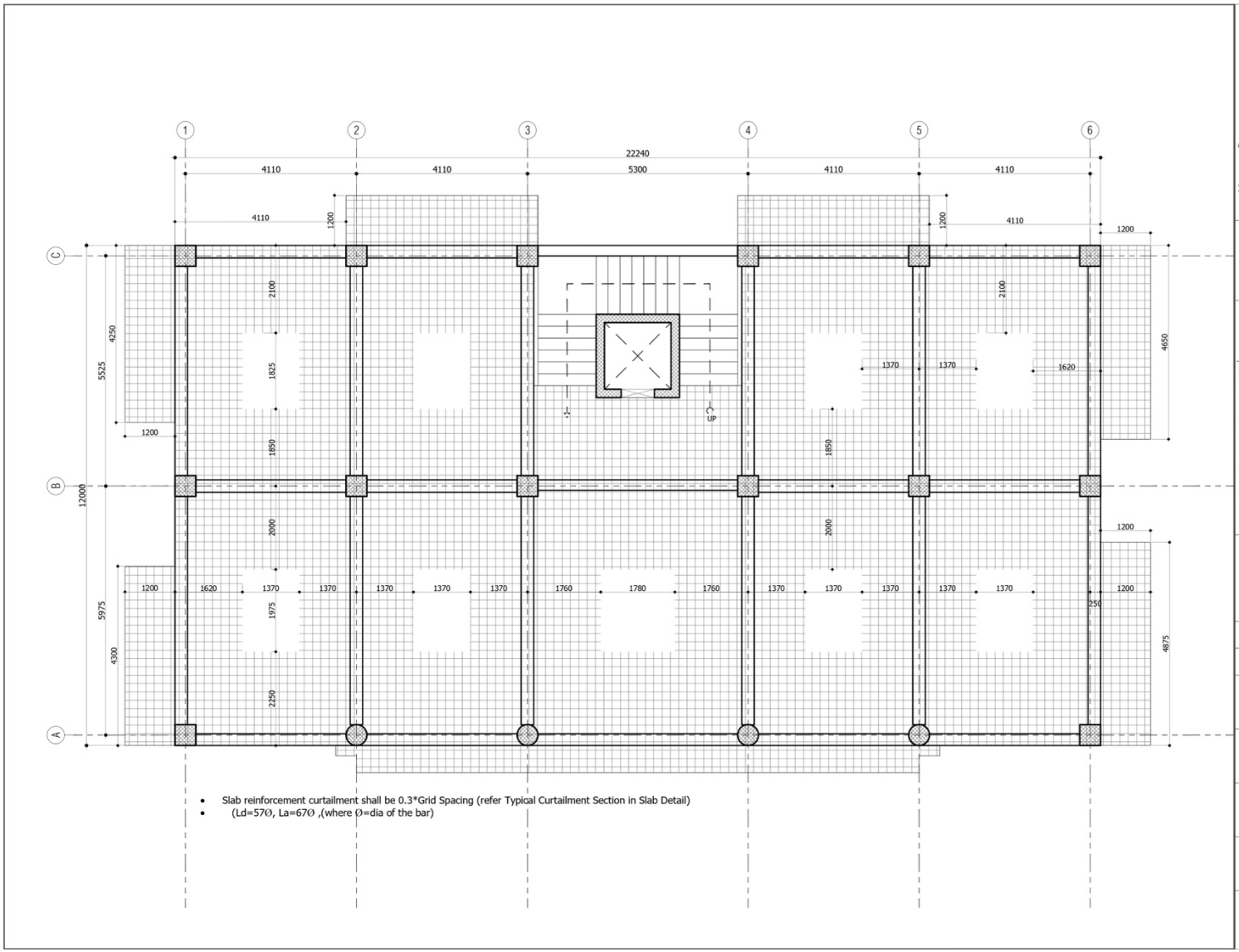
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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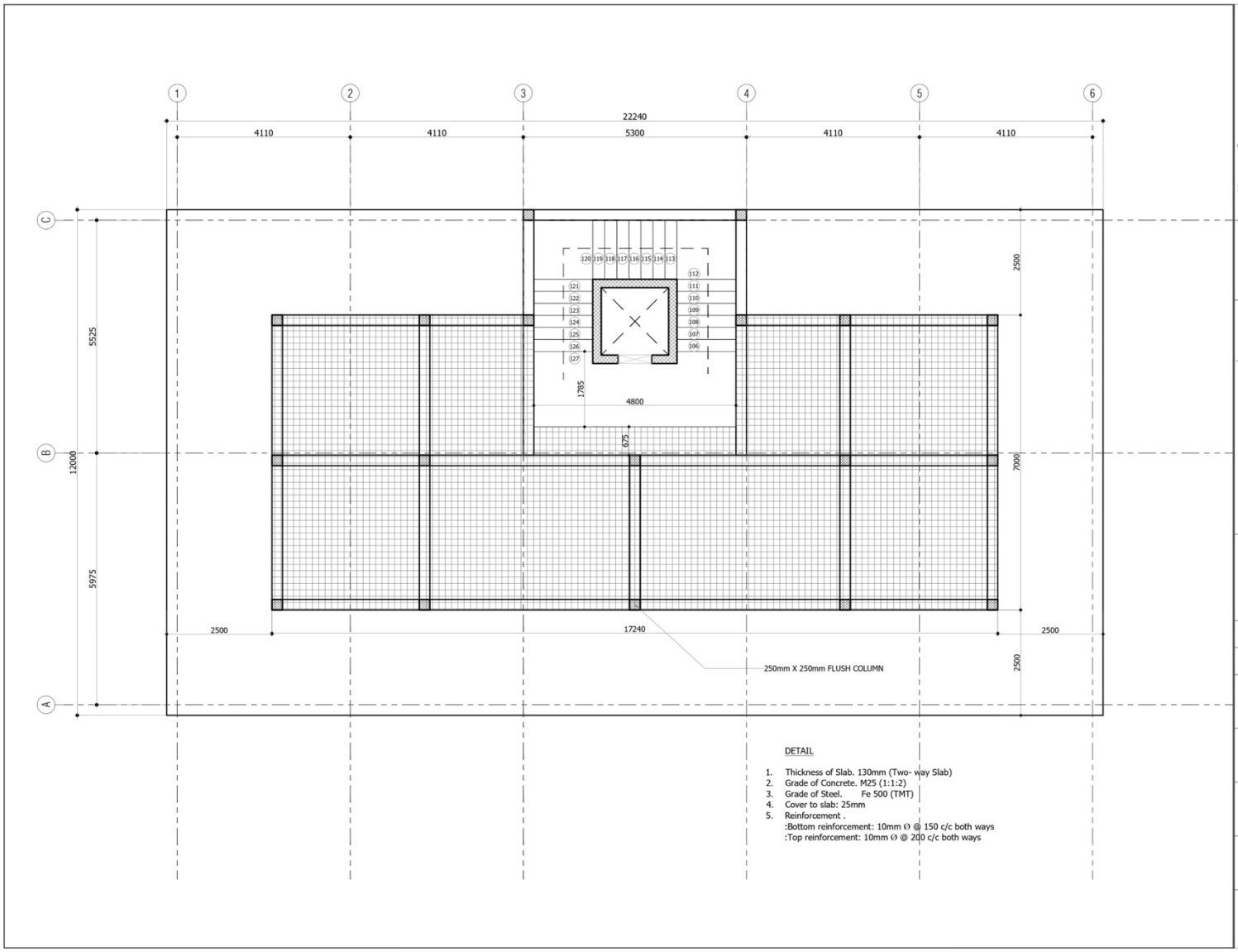
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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DESIGNATION **(BFDA)**

PAGE

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DETAIL

1. Thickness of Slab. 130mm (Two- way Slab)
2. Grade of Concrete. M25 (1:1:2)
3. Grade of Steel. Fe 500 (TMT)
4. Cover to slab: 25mm
5. Reinforcement .
   :Bottom reinforcement: 10mm Ø @ 150 c/c both ways
   :Top reinforcement: 10mm Ø @ 200 c/c both ways

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JAMTHONG SLAB REINF. PLAN

SCALE: NTS

5/5/2026

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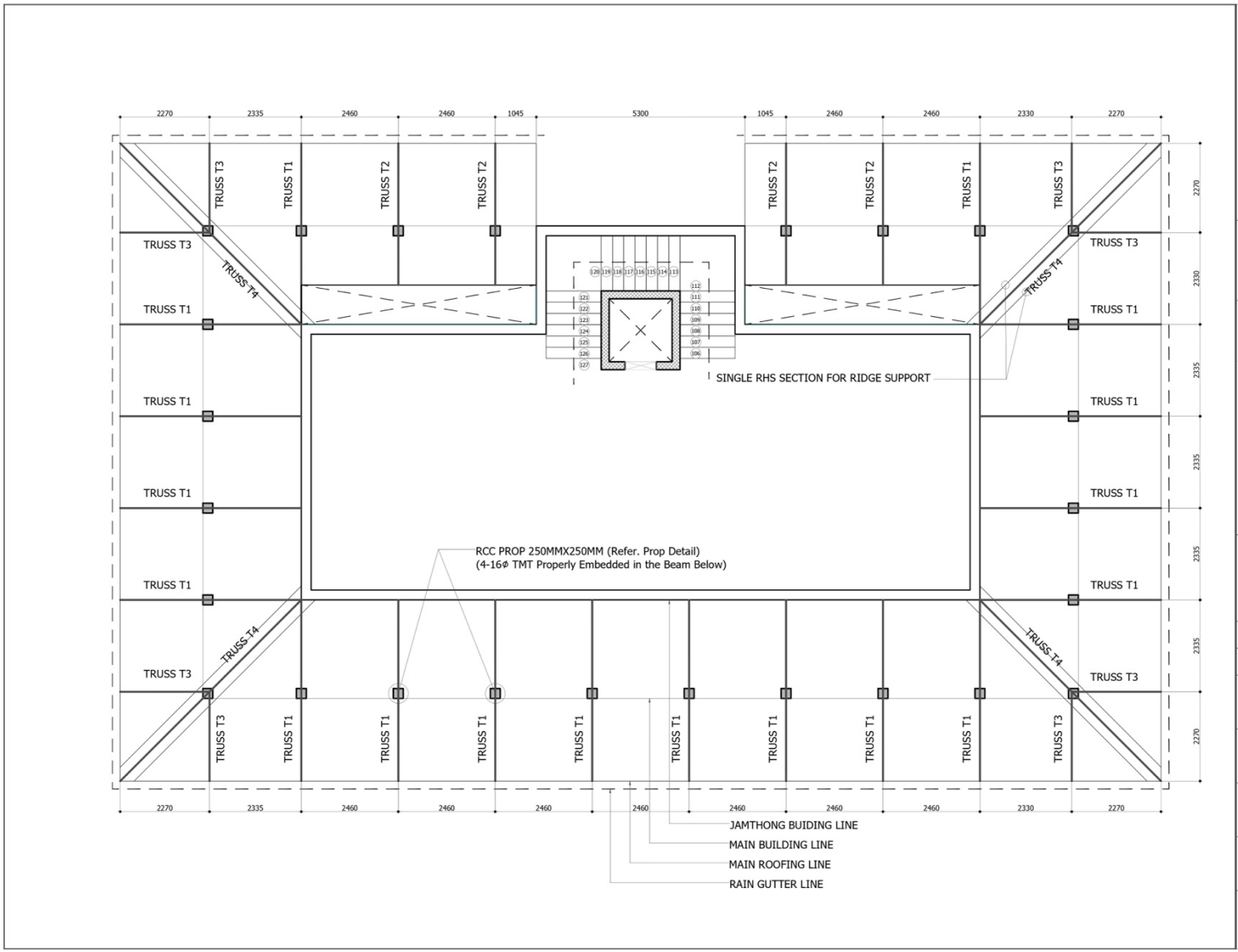
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DRAWING TITLE

MAIN ROOF TURSS LAYOUT PLAN

SCALE: NTS

5/5/2026

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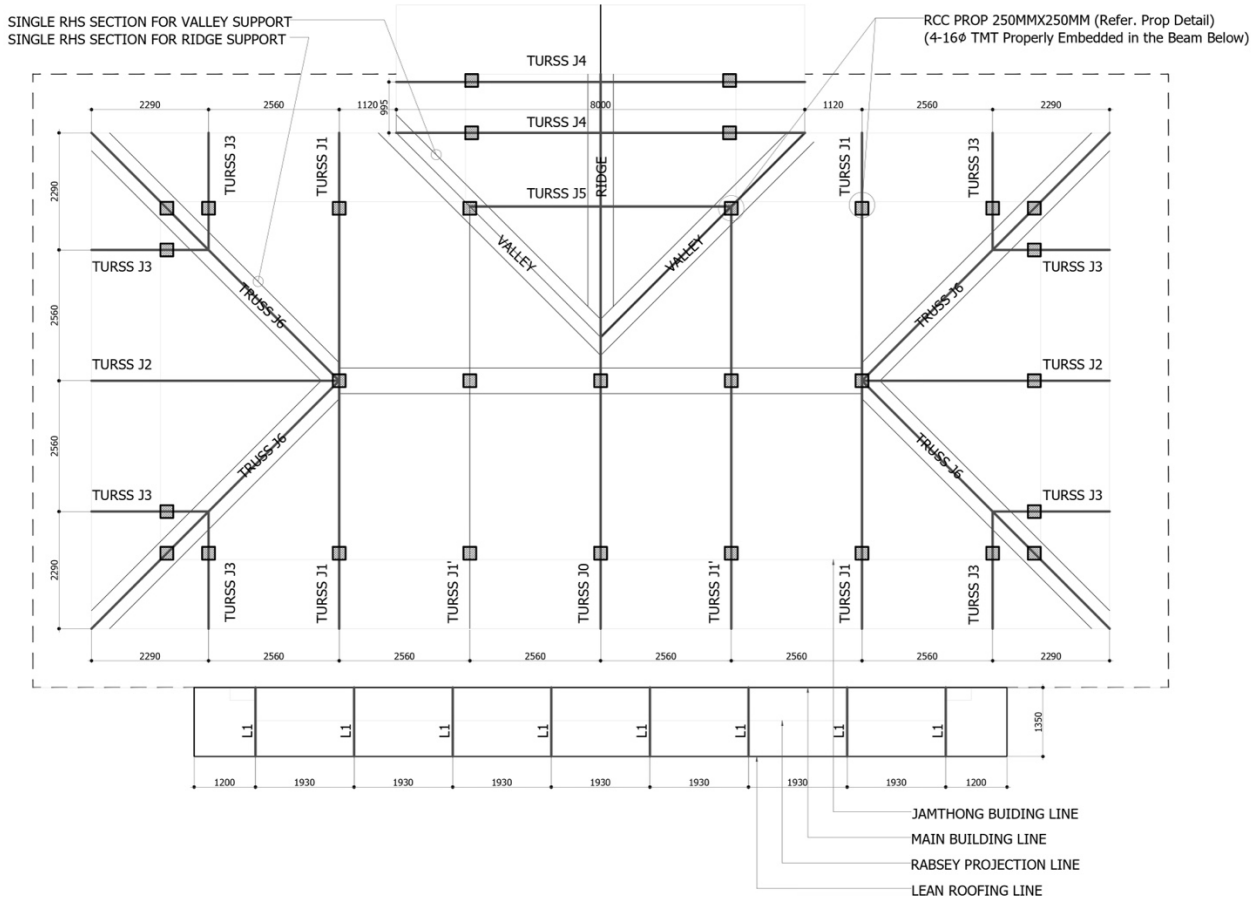
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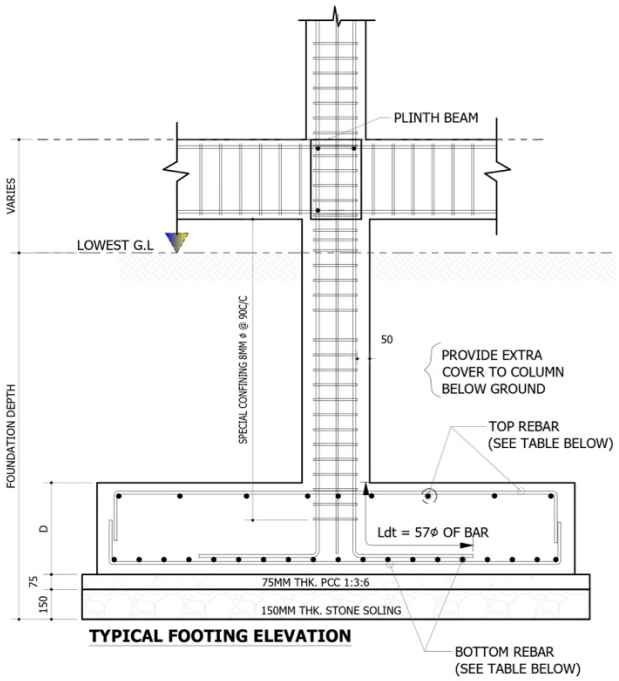
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TYPICAL FOOTING ELEVATION

FOUNDATIONS AND FOOTINGS.

1. FOOTINGS ARE DESIGNED FOR AN ALLOWABLE BEARING CAPACITY OF 150 KN/Sq M. VERIFY THE SOIL STRENGTH AND OBTAIN APPROVAL FROM THE ENGINEER BEFORE PLACING THE CONCRETE.
2. WALLS SHALL BE PROVIDED BELOW THE EXTERIOR PLINTH BEAM. IT IS RECOMMENDED TO PROVIDETHE SAME BELOW THE INTERNAL PLINTH BEAM.
3. FOOTINGS ARE DESIGNED CONSIDERING THE MINIMUM DEPTH OF 1500MM BELOW THE ORIGINALGROUND LEVEL. NOTIFY ENGINEER SHOULD THE DEPTH OF FOOTINGS REQUIRED TO BE PROVIDED IS MORE THAN THE DEPTH SPECIFIED ABOVE.
4. ALL CONCRETE SHALL BE PLACED 'IN THE DRY'FOR FOUNDATIONS.
5. COMPACTION OF FOUNDATION SHALL BE APPROVED BY ENGINEER PRIOR TO PLACEMENT OF CONCRETE.

MATERIAL SPECIFICATIONS:

1. GRADE OF CONCRETE FOR RC FOOTING WORKS SHALL BE....M25;
2. GRADE OF STEEL/REBARS FOR RC BEAM WORKS SHALL BE....FE 500
3. (SQCA APPROVED BRANDS);
4. AGGREGATES FOR ALL RC WORKS SHALL BE OF NOMINAL SIZE....20MM;
5. WATER FIT FOR DRINKING SHALL BE USED FOR CONCRETE MIX DESIGNS;
6. MINIMUM CLEAR COVER TO THE FOOTING REINFORCEMENT...50 MM.

SCHEDULE OF FOOTING FOR ISOLATED FOOTING

FOOTING	SIZE		DEPTH	REINFORCEMENT DETAILS	
	Length,Lx	Breadth,Lz	Total depth,D	Bottom	Top
RT1	9025	8800	700	16ø@ 150 c/c in both directions	16ø@ 200c/c in both directions
F1	3500	3500	700	16ø@ 150 c/c in both directions	16ø@ 200c/c in both directions
F2	3000	3000	650	16ø@ 150 c/c in both directions	16ø@ 200c/c in both directions



ཁེ་ཆ་ཐུབ་མཁན་འཛེས་ལང་དོན་ཚན་པ་ཞིག་ཨིན།།
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REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

{ROID}

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

AGENCY

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DRAWING TITLE

FOOTING REINFORCEMENT DETAIL

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

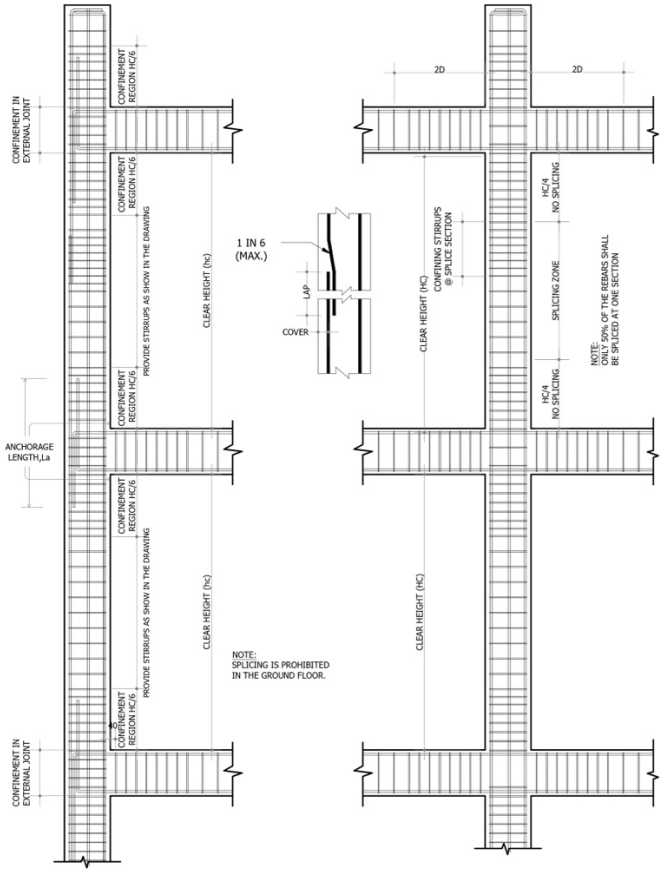
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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DESIGNATION **(BFDA)**

PAGE

46



TYPICAL COLUMN REBAR AND SPLICING DETAILS

MATERIAL SPECIFICATIONS:

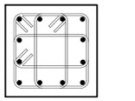
1. GRADE OF CONCRETE FOR RC COLUMN WORKS SHALL BE....M25;
2. GRADE OF STEEL/REBARS FOR RC COLUMN WORKS SHALL BE....FE 500
3. (SQCA APPROVED BRANDS);
4. AGGREGATES FOR ALL RC WORKS SHALL BE OF NOMINAL SIZE....20MM;
5. WATER FIT FOR DRINKING SHALL BE USED FOR CONCRETE MIX DESIGNS;

GENERAL DETAILING NOTES:

1. SPECIAL CONFINING REINFORCEMENT TIES OF 10Ø @ 90MM C/C SHALL BE PROVIDED OVER A LENGTH OF HC/6 FROM EACH FACE OF BEAM TOWARDS MID SPAN OF THE COLUMN,
2. SPECIAL CONFINING REINFORCEMENT OF 10@ 90 MM C/C SHALL BE CONTINUED INTO THE FOOTING PAD UP TO A MINIMUM OF 300MM FROM THE TOP FACE OF THE FOOTING PAD.
3. THE MAIN REINFORCEMENT OF COLUMNS SHALL BE STRAIGHT WITHOUT KINKS OR CRANK.
4. THE SPLICE IN THE COLUMN SHALL BE AWAY FROM THE SUPPORT BY HC/4 AND THE SPLICE LENGTH SHALL BE THE DEVELOPMENT LENGTH(LD) IN TENSION.
5. COLUMNS SUPPORTING STAIRCASE SHALL BE PROVIDED WITH SPECIAL CONFINING TIES OF 10Ø@ 90C/C THROUGHOUT THE COLUMN LENGTH.
6. SPLICING AT GROUND FLOOR LEVEL IS PROHIBITED.
7. ONLY 50% OF MAIN RE BARS ARE SPLICED AT ONE SECTION.
8. EXCEPT IN CONFINING & SPLICING ZONE, REST OF THE COLUMN LENGTH SHALL HAVE TIES/LINKS OF 10@150MM C/C.
9. TIES/LINKS OF 10Ø@ 90MM C/C SHALL BE PROVIDED THROUGHOUT THE LENGTH OF SPLICING ZONE.
10. THE MAIN RE BARS IN THE BEAM MUST BE PROPERLY ANCHORED IN COLUMNS BY LENGTH NOT LESS THEN LA OF THE REBAR GIVEN IN THE TABLE ABOVE;.
11. THE ONE FOURTH (1/4) OF THE COLUMN LENGTH NEAR THE BEAM CONNECTION OR FRAMING INTO THE COLUMN SHALL BE CASTED MONOLITHICALLY WITH BEAMS AND SLABS.

SCHEDULE OF COLUMN

COLUMN	REINFORCEMENT DETAILS			
	SIZE	Main Steel	Confining ties	Normal ties
C1	500X500	**12-25ϕ**	10 ϕ @ 90 mm c/c	10ϕ @ 150 mm c/c
C2	500X500	**8-25ϕ+4-20ϕ**	10 ϕ @ 90 mm c/c	10ϕ @ 150 mm c/c
C3	500X500	**8-25ϕ+4-20ϕ**	10 ϕ @ 90 mm c/c	10ϕ @ 150 mm c/c
C4	500 DIA	**10-25ϕ**	10 ϕ @ 90 mm c/c	10ϕ @ 150 mm c/c


TYPICAL COLUMN SECTION FOR 12 REBAR CONFIGURATION



COLUMN TIES DETAILS




TYPICAL CIRCULAR COLUMN SECTION FOR 12 REBAR CONFIGURATION





HOOK DETAILS

ཀཱཾ་སྒྲུབ་མཐོ་ཚུར་འཛེལ་ཡང་དུང་བྱེད་པོག་ཚང་།།
ཡུན་ཚོགས་སྐོང་།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

[ROID]

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

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DRAWING TITLE

COLUMN REINFORCEMENT DETAIL

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

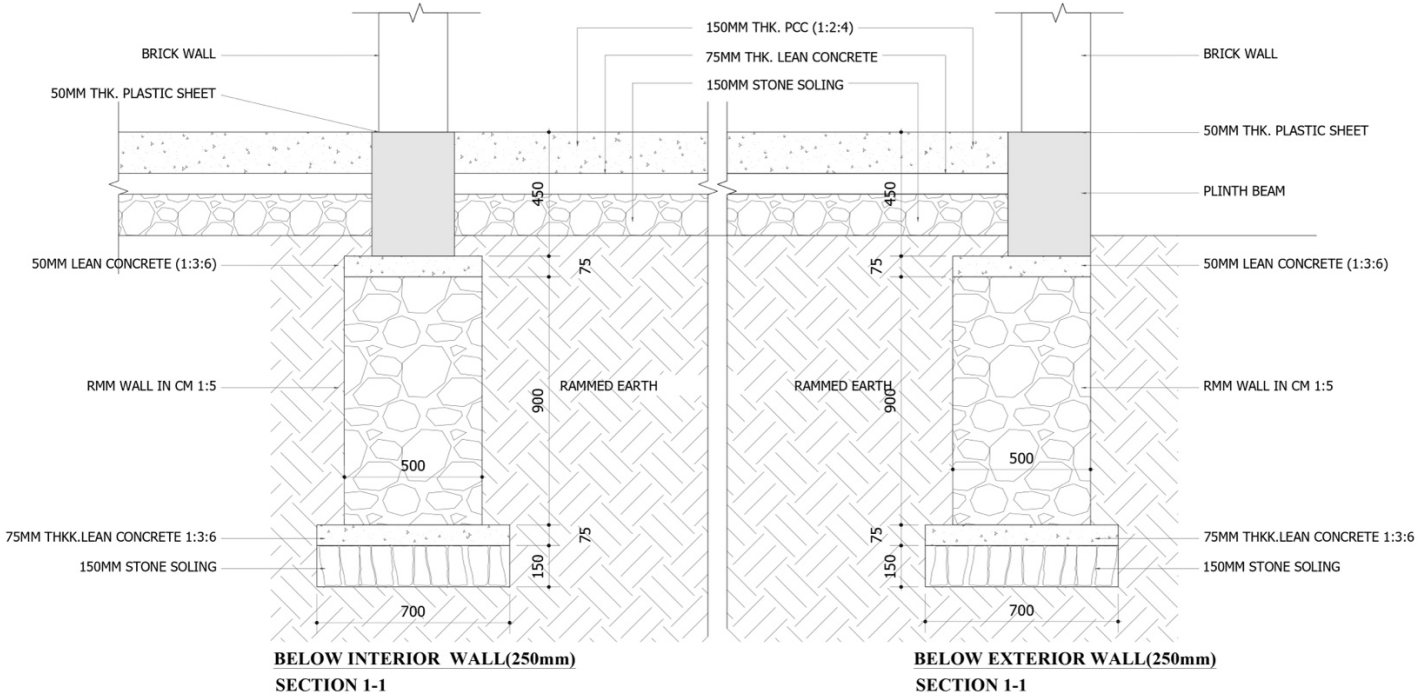
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

ENDORSED BY:

DESIGNATION **(BFDA)**

PAGE

46



BELOW INTERIOR WALL(250mm)
SECTION 1-1

BELOW EXTERIOR WALL(250mm)
SECTION 1-1

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DRAWING TITLE

FOUNDATION WALL DETAIL

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

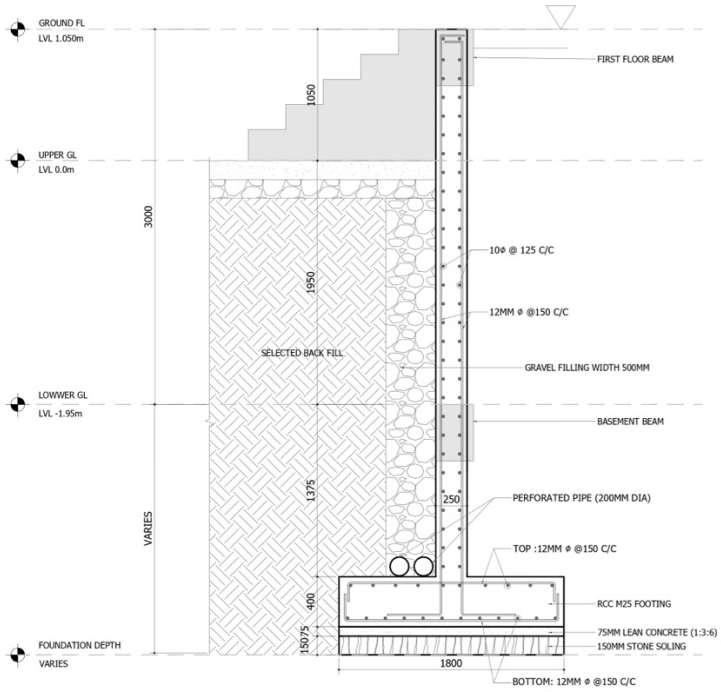
GANESH PRASAD CHAMLAGAI
(INTERIM HEAD)

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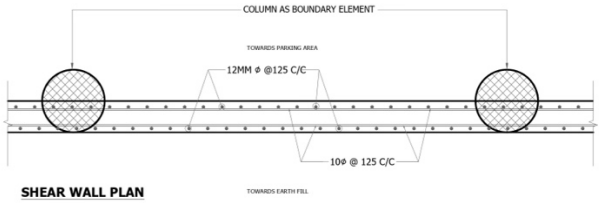
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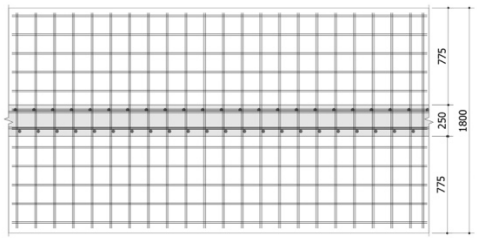
250 MM SHEAR WALL SECTION
SECTION 3-3

NOTE FOR SHEAR WALL:

1. Material:
   Concrete - Grade M25 as per IS: 456
   Reinforcement - Grade Fe500 as per IS: 1786
   Clear cover - 25mm
2. The vertical reinforcements shall extend 300mm (minimum) into the foundations and then be extended laterally into the foundations at a length of 'Ld' (measured from the top face of foundations), Refer relevant tables for the lengths of 'Ld'.
3. Not more than 50% of the bars shall be splice at one section with splice length of Ld.
4. Spacers in form of chairs shall be used to maintain the required gap between the rebar layers in the wall. The chairs shall be made from 10Ø or bigger diameter re-bars.



SHEAR WALL PLAN



FOOTING REINFORCEMENT PLAN

TOP REINF.:12MM ø @150 C/C
BOTTOM REINF: 12MM ø @150 C/C



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SHEAR WALL REINFORCEMENT DETAIL

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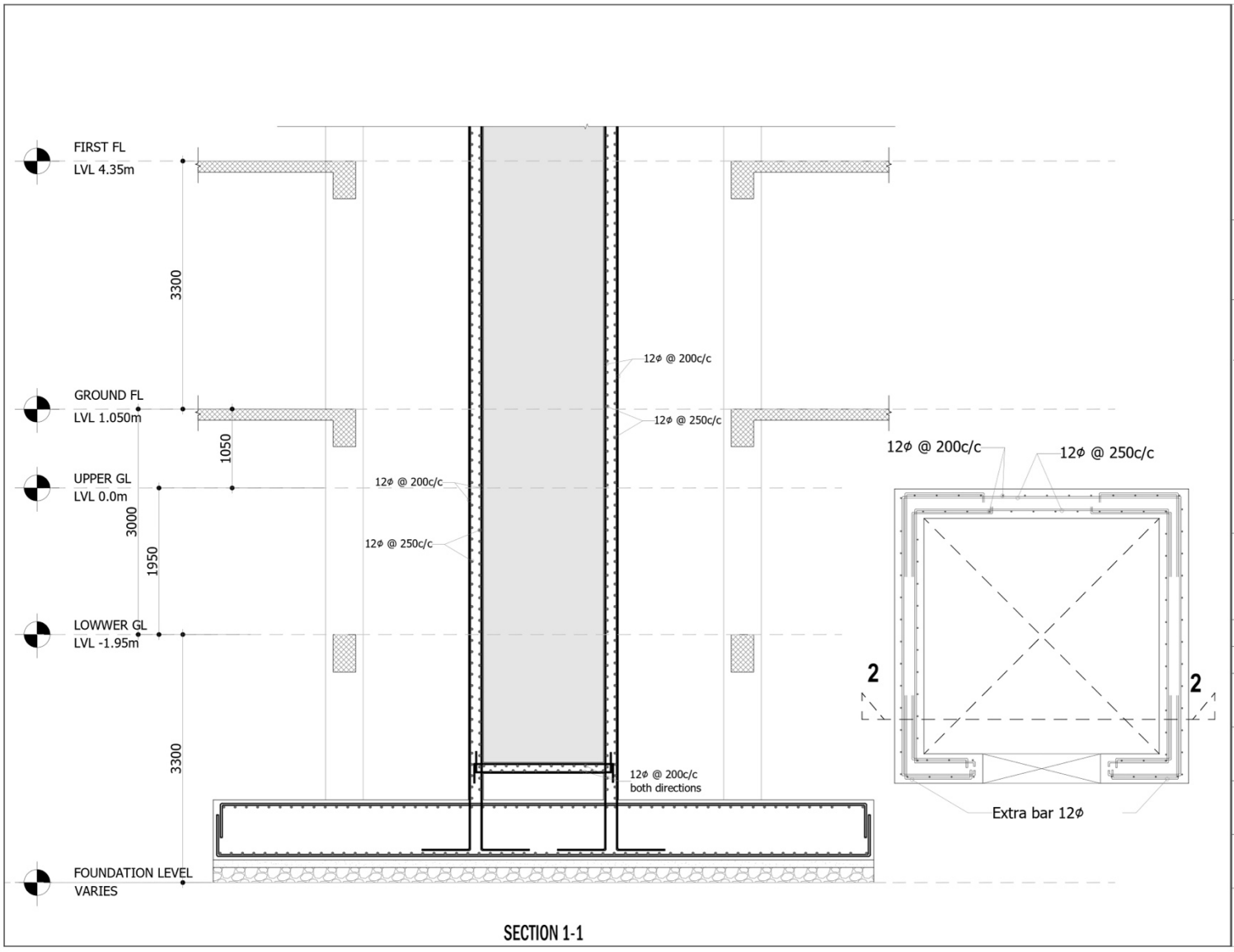
DRAWN BY:
SAMTEN NORBU (ENGINEER)

APPROVED BY:
GANESH PRASAD CHAMLAGAI
(INTERIM HEAD)

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DESIGNATION **(BFDA)**

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SECTION 1-1

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DRAWING TITLE

LIFT SHEAR WALL REINFORCEMENT DETAIL

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

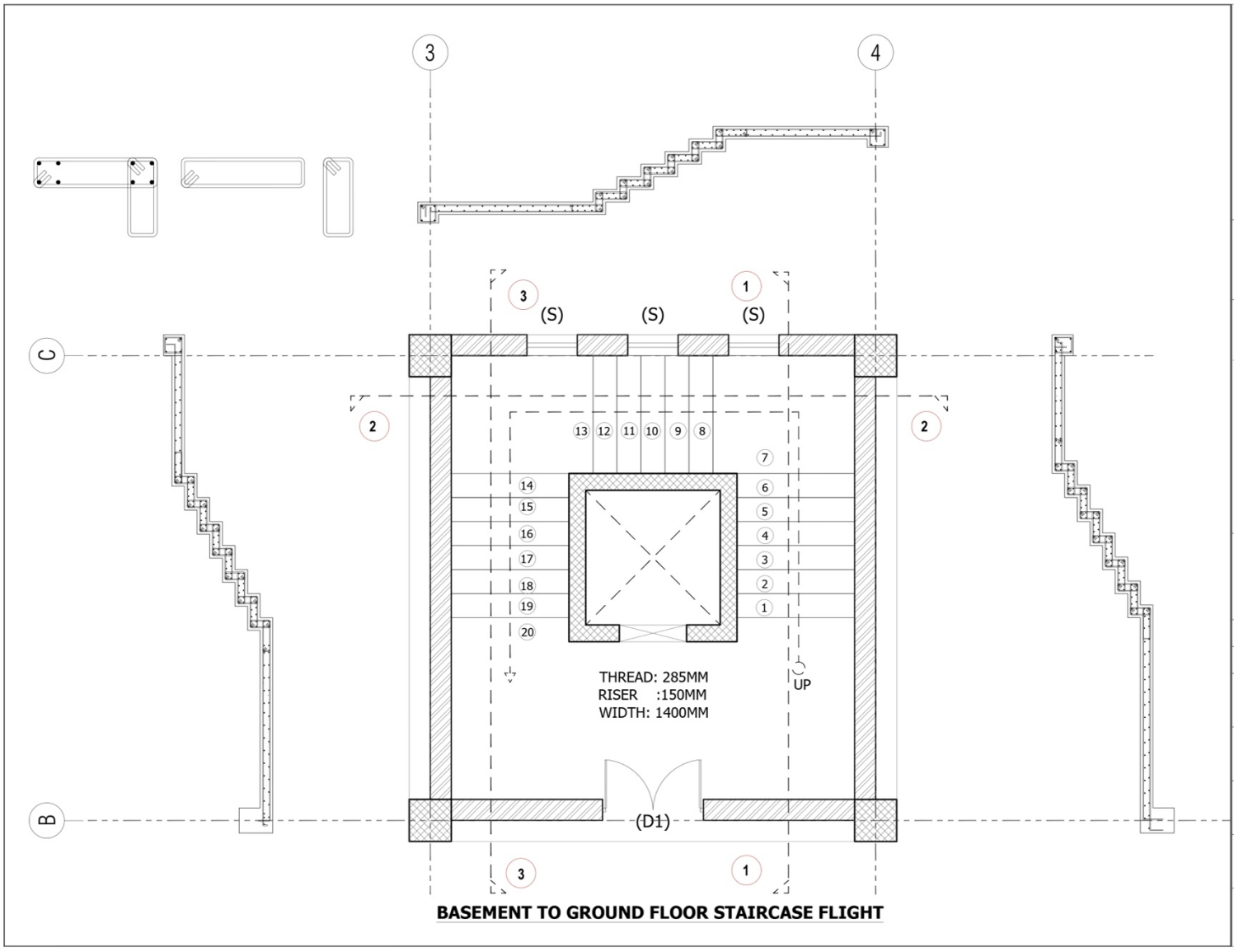
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REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

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DRAWING TITLE

BASEMENT TO FIRST FLOOR STAICASE FLIGHT

SCALE: NTS

5/5/2026

DESIGNED BY:

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DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

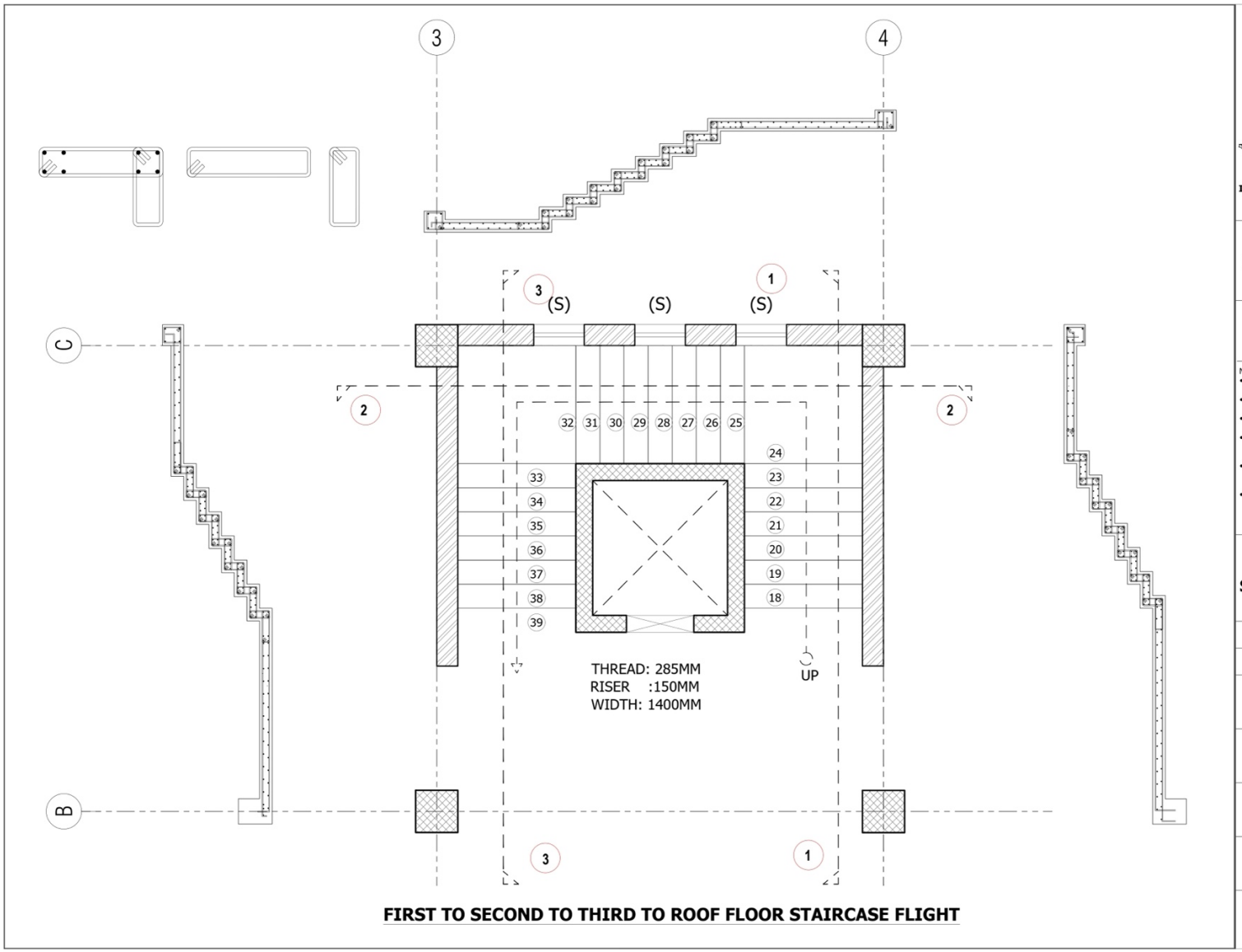
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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DESIGNATION (BFDA)

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FIRST TO SECOND TO THIRD TO ROOF FLOOR STAIRCASE FLIGHT

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DRAWING TITLE

REST TO THE STAIRCASE FLIGHT DETAIL

SCALE: NTS

5/5/2026

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MAHESH TAMANG(ENGINEER)

DRAWN BY:

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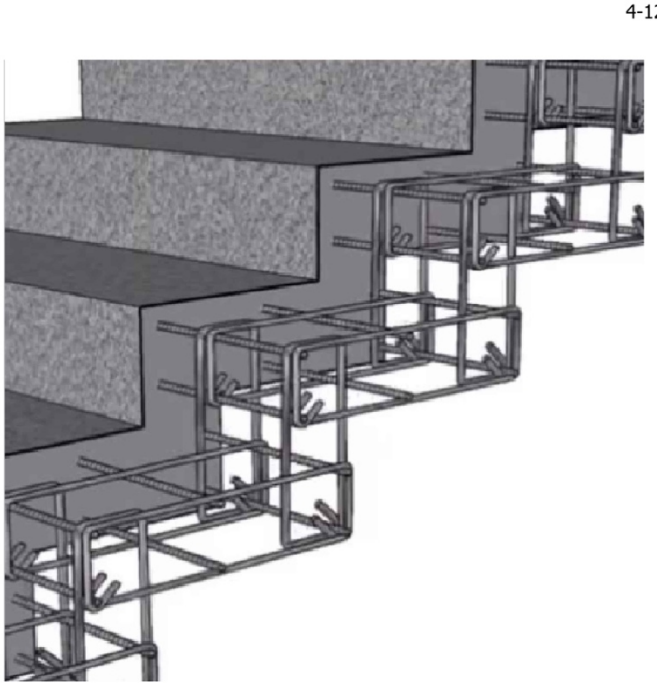
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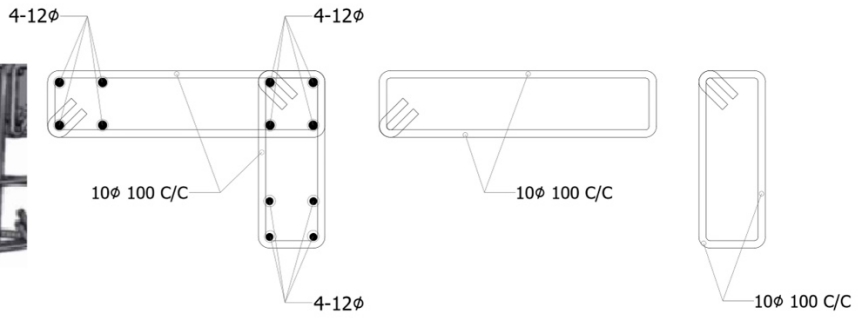
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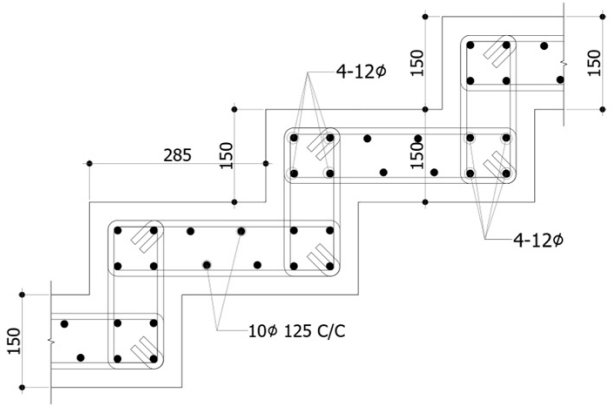
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ལྷན་ཚོགས་ཀྱིས་བྱིང་།།།

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DRAWING TITLE

STAIRCASE REINF. DETAIL

SCALE: NTS

5/5/2026

DESIGNED BY:

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DRAWN BY:

SAMTEN NORBU (ENGINEER)

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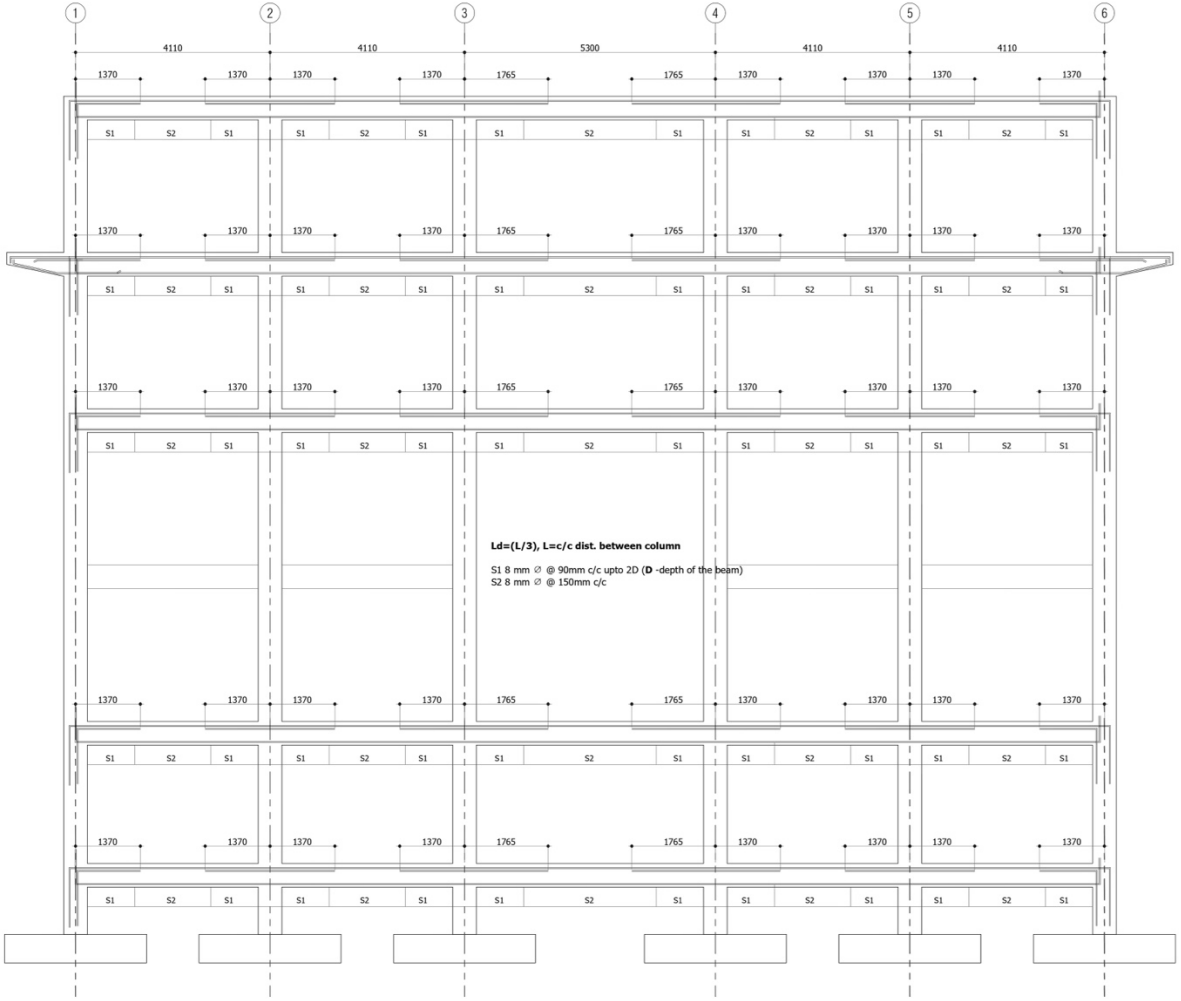
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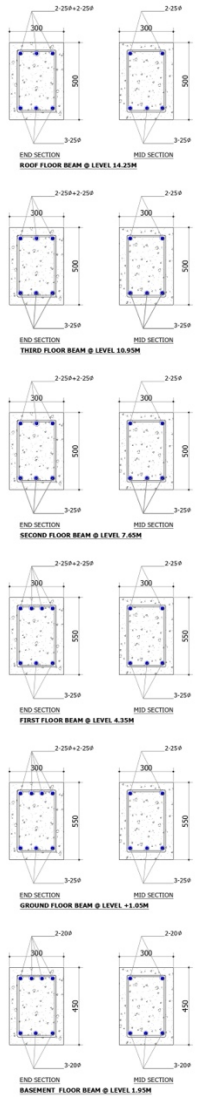
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REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

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DRAWING TITLE

L-SECTION ALONG GRID A

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

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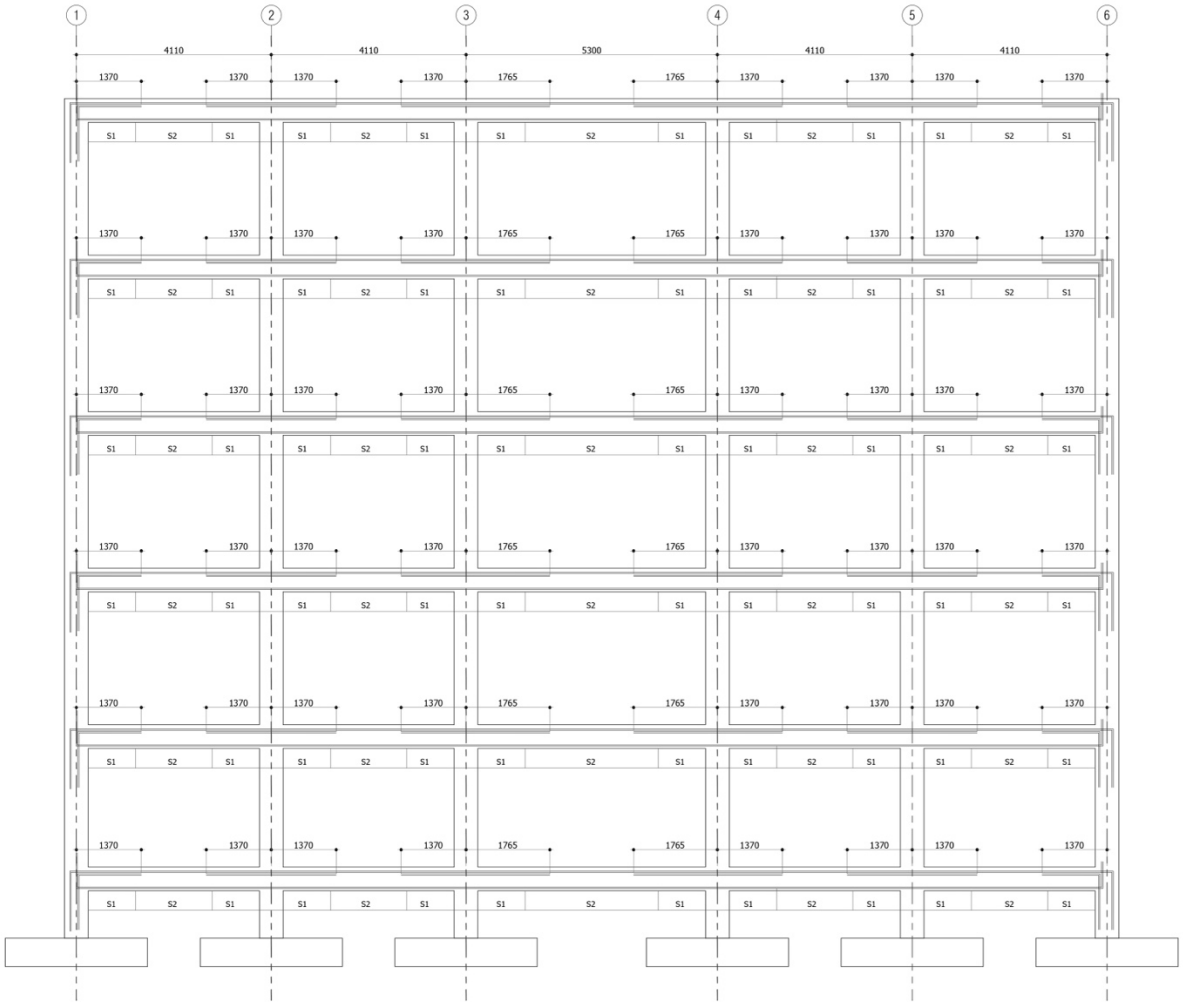
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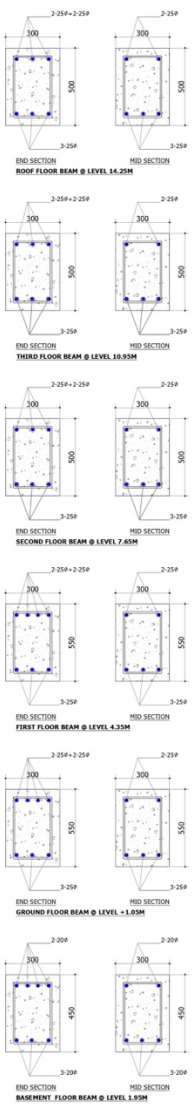
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DRAWING TITLE

L-SECTION ALONG GRID B

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

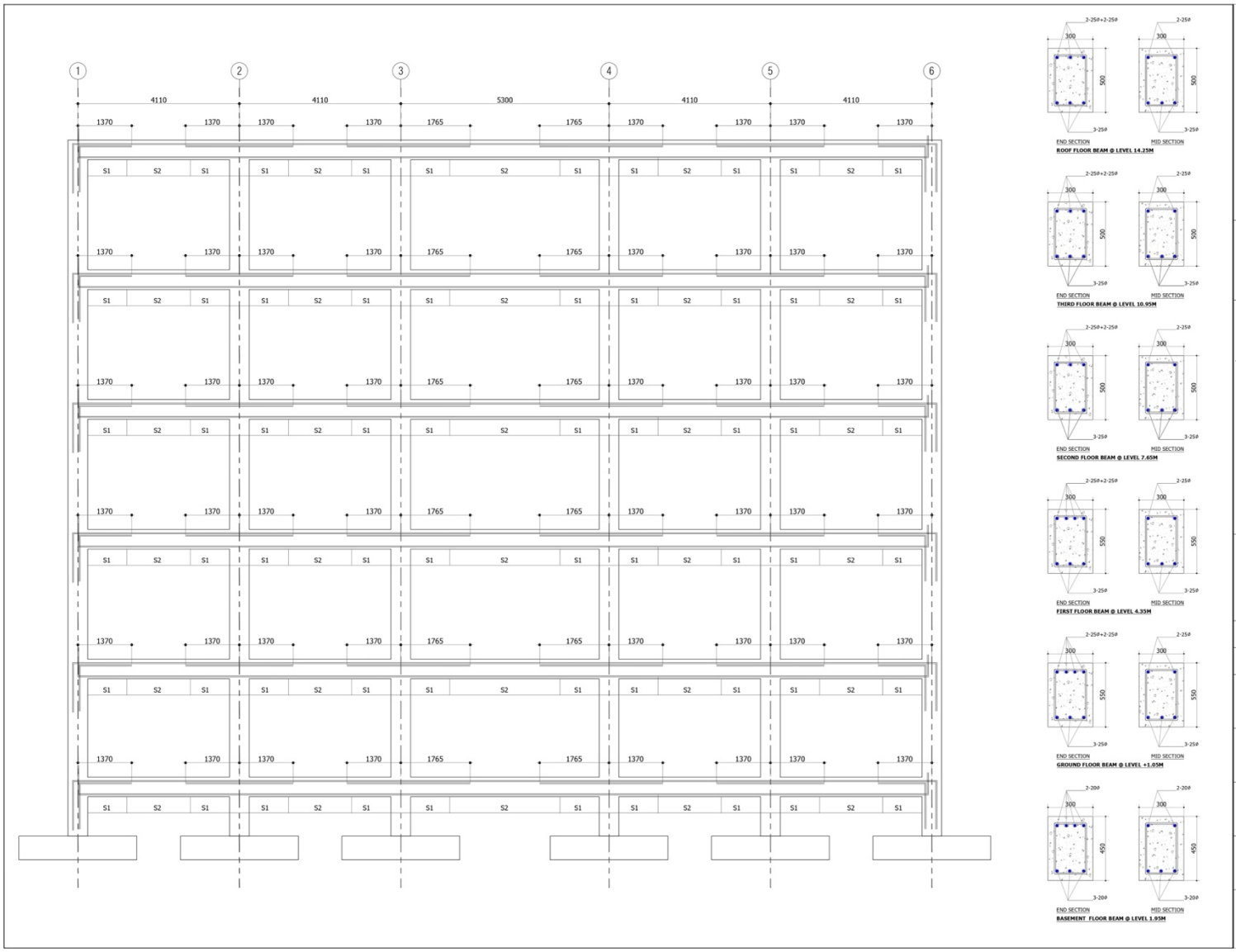
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

ENDORSED BY:

DESIGNATION **(BFDA)**

PAGE

46



REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

{ROID}

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

AGENCY

BFDA

NOTES:

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DRAWING TITLE

L-SECTION ALONG GRID C

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

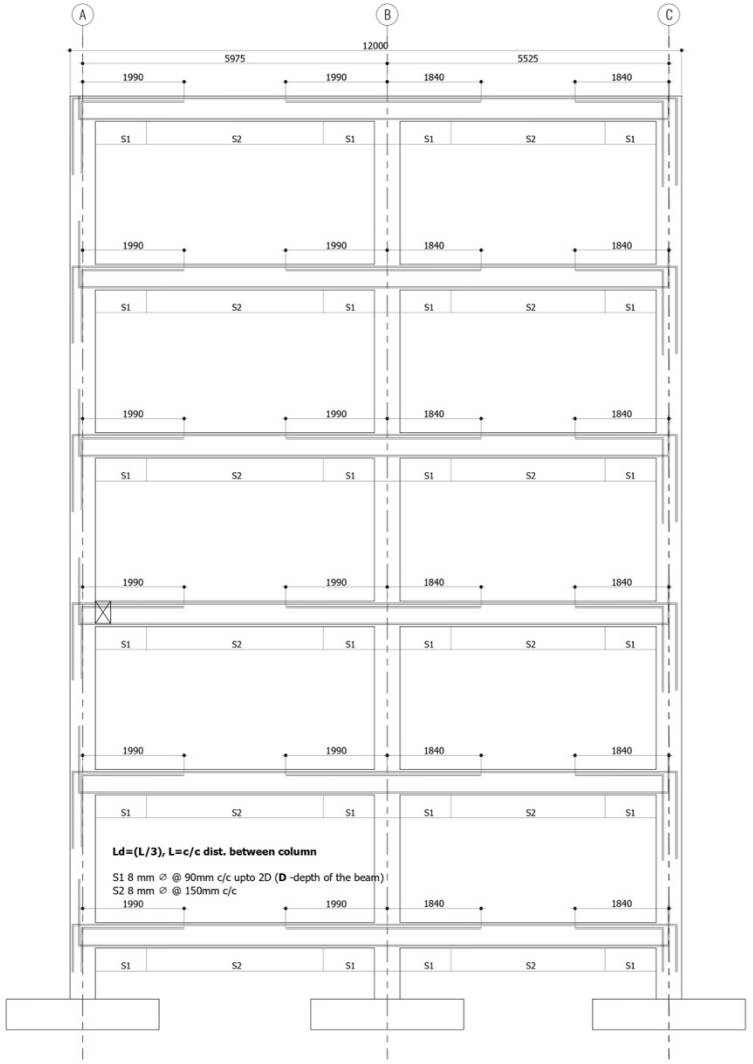
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

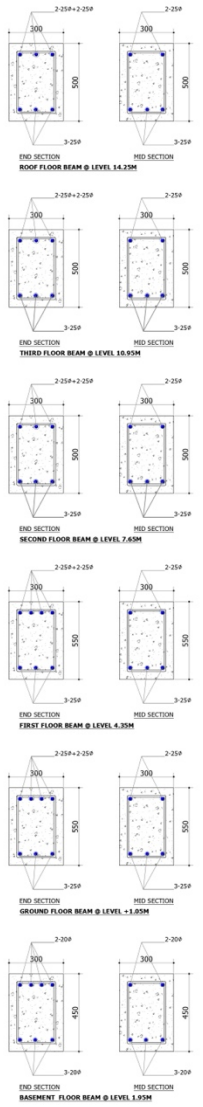
ENDORSED BY:

DESIGNATION **(BFDA)**

PAGE

46





གཞི་སྒྲིགས་མགོ་བོང་འཛེལ་ཁུངས་བོོག་པའི་ཚང་།།
ཁུན་ཚོགས་སྡེར་།།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

{ROID}

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

AGENCY

BFDA

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DRAWING TITLE

L-SECTION ALONG GRID 1 &6

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

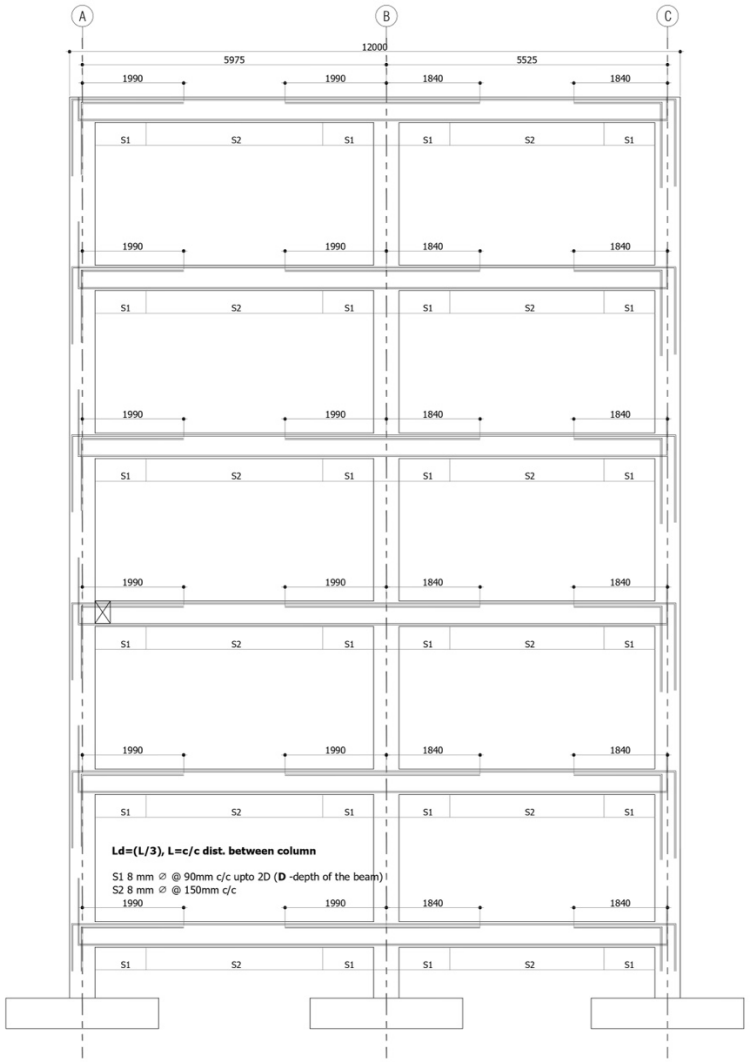
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

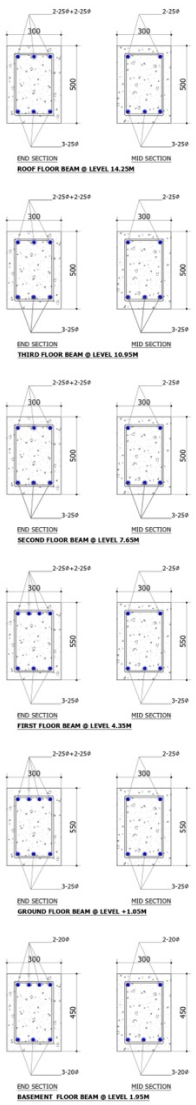
ENDORSED BY:

DESIGNATION **(BFDA)**

PAGE

46







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ཐུབ་ཚོགས་ལྷིང་།།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

[ROID]

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

AGENCY

BFDA

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DRAWING TITLE

L-SECTION ALONG GRID 2 &5

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

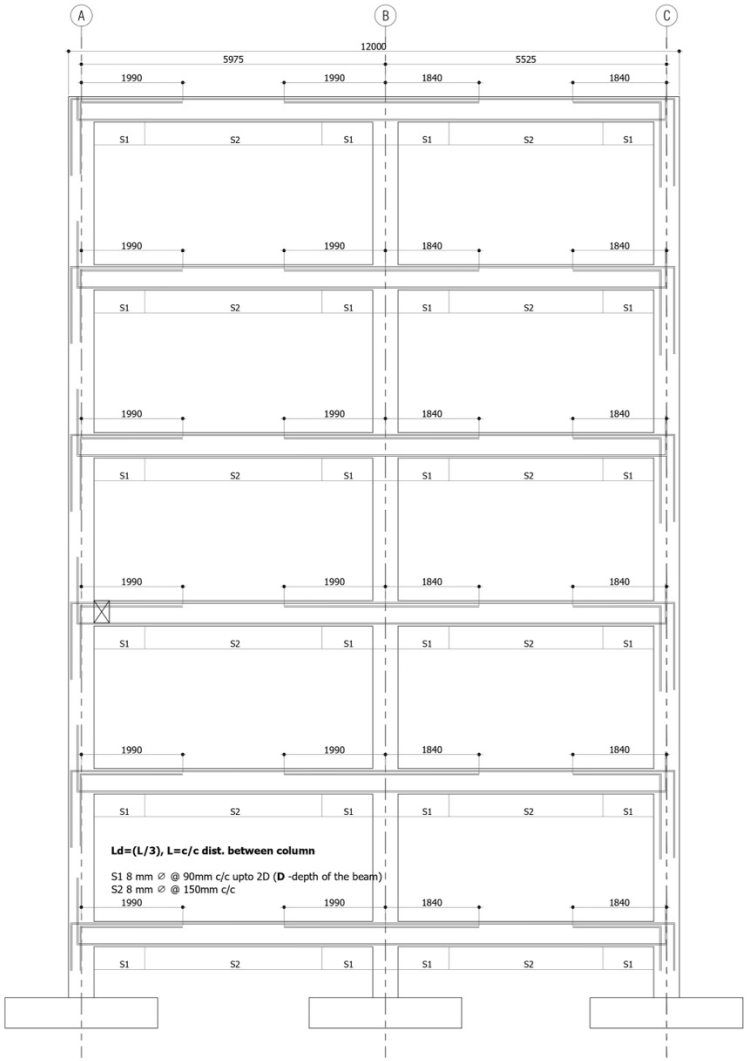
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

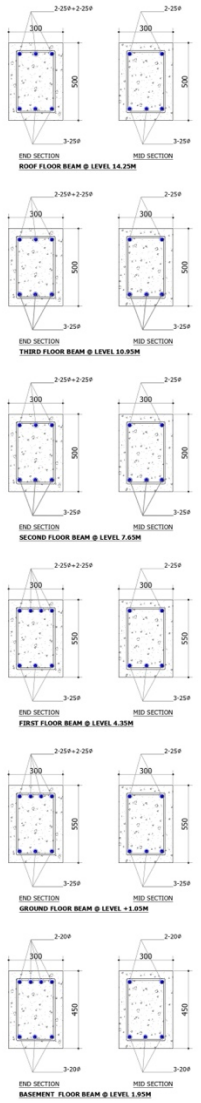
ENDORSED BY:

DESIGNATION **(BFDA)**

PAGE

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ཐུབ་རྩོལགས་ལྷོང་།།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

(ROID)

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

AGENCY

BFDA

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DRAWING TITLE

L-SECTION ALONG GRID 3 &4

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

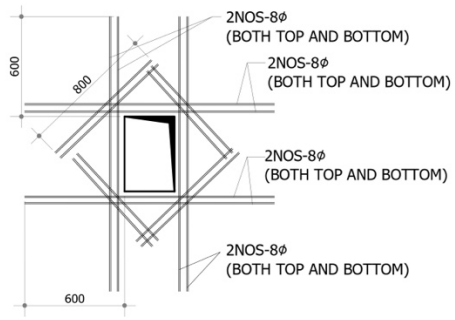
GANESH PRASAD CHAMLAGAI
(INTERIM HEAD)

ENDORSED BY:

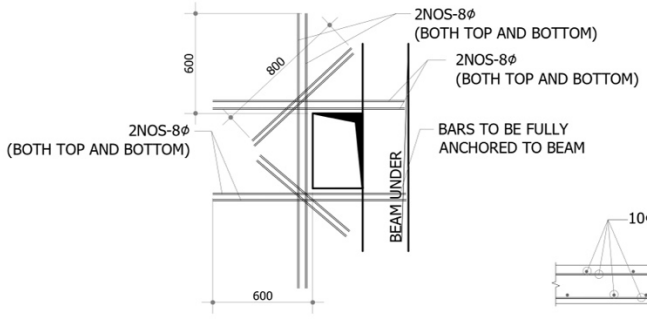
DESIGNATION **(BFDA)**

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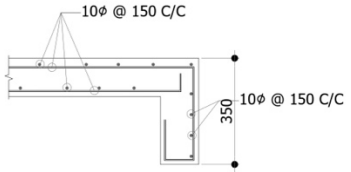
46



TYPICAL DETAIL FOR OPENING IN THE MIDDLE OF SLAB



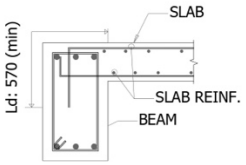
TYPICAL DETAIL FOR OPENING NEAR BEAM



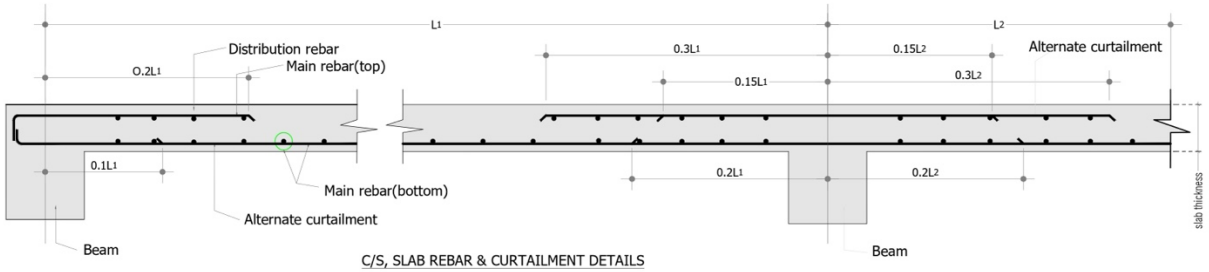
DROP SLAB AT BALCONY

SLAB NOTES

1.SLAB REBAR SHALL BE EXTENDED WHEREVER NECESSARY FOR THE CORNICE PROJECTS (REFER ARCH. DWG. FOR PROJECTIONS)
2.CONCRETE COVER BLOCK MUST BE PROVIDED MINIMUM OF FOUR CONCRETE BLOCK PER SQ.M
3.MINIMUM OF 5 CHAIR (10Ø) BAR MUST BE PROVIDED EVERY 1 SQ.M TO MAINTAIN THE EFFECTIVE DEPTH OF THE SLAB
4.THE REBAR SHOULD BE PROPERLY ANCHOR TO THE BEAM AS SHOWN ABOVE
5.PROVIDE TORSION REINFORCEMENT WHEREVER NECESSARY, AS PER INSTRUCTION OF ENGINEER.
6.REFER ABOVE CUT-OUTS DETAILS FOR ANY SLAB OPENING
7.THE MAIN REINFORCEMENT SHALL BE PLACE AT BOTTOM IN THE SHORTER DIRECTION OF THE SLAB PANEL
8.THE STARTING DISTRIBUTION BAR SHALL BE PLACE WITHIN THE DEPTH OF SLAB OR 1/2 THE SPACING OF SLAB REBAR
9.SLAB REINFORCEMENT CURTAILMENT SHALL BE 0.3*GRID SPACING (REFER TYPICAL CURTAILMENT SECTION BELOW)
(LD=57Ø, LA=67Ø ,(WHERE Ø=DIA OF THE BAR)
10.MINIMUM CLEAR COVER TO SLAB & STAIRCASE REINFORCEMENT SHALL BE 20MM
11.REFER ELECTRICAL DRAWING/CONSULT ELECTRICAL ENGINEER FOR PROVISION OF ELECTRICAL CONDUITS



TYPICAL DETAIL OF ANCHORAGE OF SLAB TOP REINFORCEMENT IN BEAM



C/S, SLAB REBAR & CURTAILMENT DETAILS



ཁག་རྩེན་མགོ་བོང་འཛེམ་ལྷང་ཁྱོང་བྱེགས་ཡིག་ཚང་།།
ཐུབ་རྩོལ་ལྷོ་ཡུལ་།།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING
(ROID)

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

AGENCY

BFDA

NOTES:
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DRAWING TITLE

SLAB NOTES

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

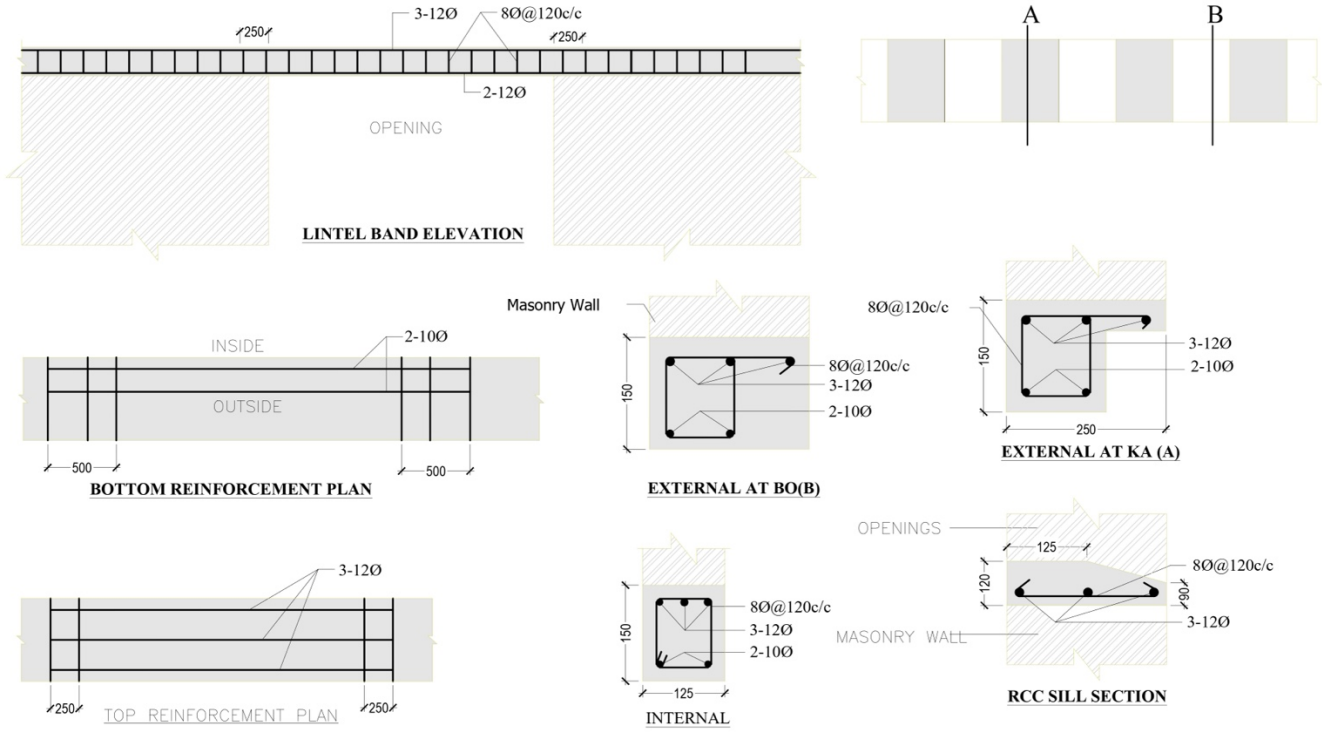
GANESH PRASAD CHAMLAGAI
(INTERIM HEAD)

ENDORSED BY:

DESIGNATION (BFDA)

PAGE

46



TYPICAL REINFORCEMENT LAYOUT IN LINTEL BAND OVER OPENING

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING
{ROID}

PROJECT TITLE

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DRAWING TITLE

TYPICAL LINTEL REINFORCEMENT DETAIL

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

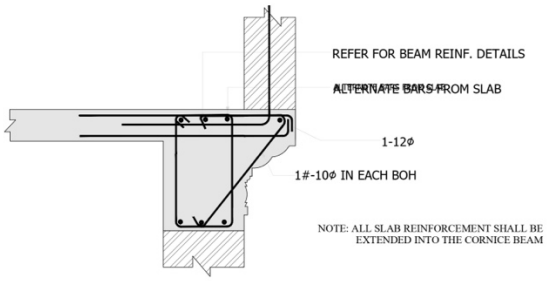
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

ENDORSED BY:

DESIGNATION **(BFDA)**

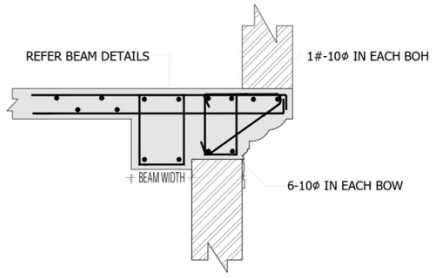
PAGE

46



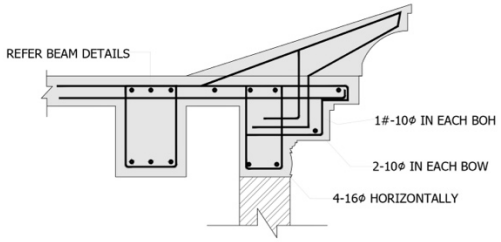
RCC CORNICE DETAILS AT FIRST FLOOR LEVEL

(FOR DETAILS REFER ARCHITECTURAL DRAWINGS)



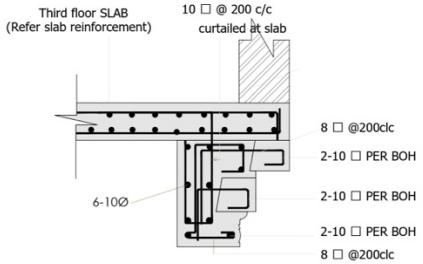
CORNICE DETAILS AT SECOND FLOOR LEVEL

(FOR DETAILS REFER ARCHITECTURAL DRAWINGS)



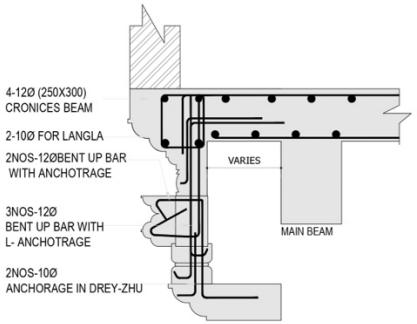
CORNICE DETAILS AT ROOF LEVEL

(FOR DETAILS REFER ARCHITECTURAL DRAWINGS)



CORNICE DETAILS

(FOR DETAILS REFER ARCHITECTURAL DRAWINGS)



CORNICE DETAILS

(FOR DETAILS REFER ARCHITECTURAL DRAWINGS)

NOTES:

1. SLAB REBARS SHALL BE EXTENDED WHEREVER NECCESSARY FOR THE SLAB PROJECTIONS & CORNICE(REFER SLAB DETAILS DRAWINGS)
2. THE CORNICE REINFORCEMENTS PROVIDED ARE EXCLUDING THE SLAB REINFORCEMENT ALREADY PROVIDED
3. CORNICE PATTERNS/SHAPES AND DIMENSIONS SHALL BE AS PER THE ARCHITECTURAL DRAWING DETAILS(REFER ARCHITECTURAL DRAWINGS
4. REFER ARCHITECTURAL DRAWINGS FOR THE LOCATION OF DIFFERENT TYPES CORNICES AT VARIOUS FLOOR LEVELS.

ཁྱིམ་ཚན་མཁོ་ཆས་བོད་འཐེག་ལུང་སྤྱིགས་ཡིག་ཚང་།།
ཕྱག་ཚོགས་སྨོན་།།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

[ROID]

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

AGENCY

BFDA

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DRAWING TITLE

CORNICES REINFORCEMENT DETAL

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

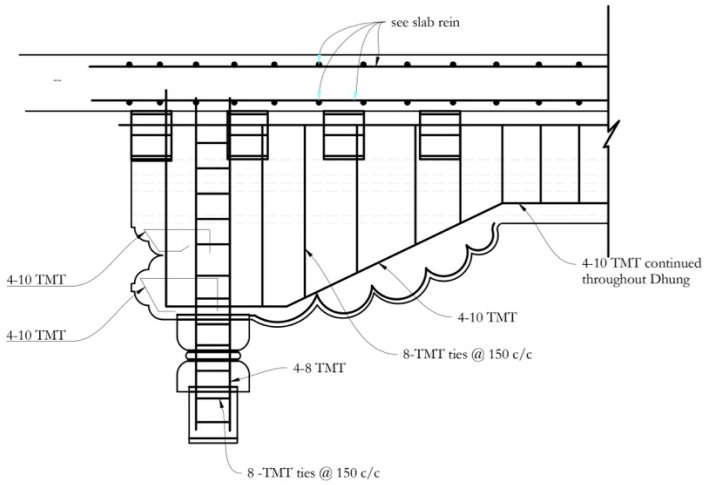
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

ENDORSED BY:

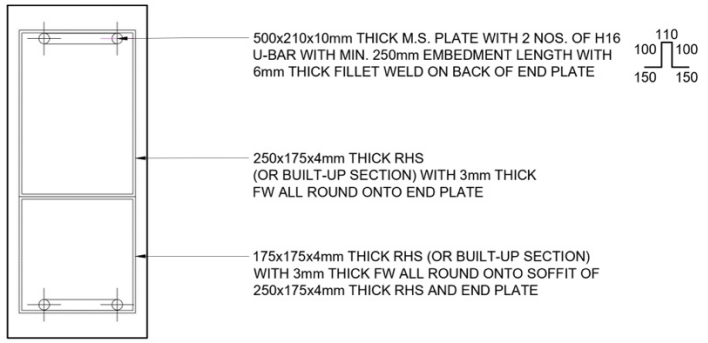
DESIGNATION **(BFDA)**

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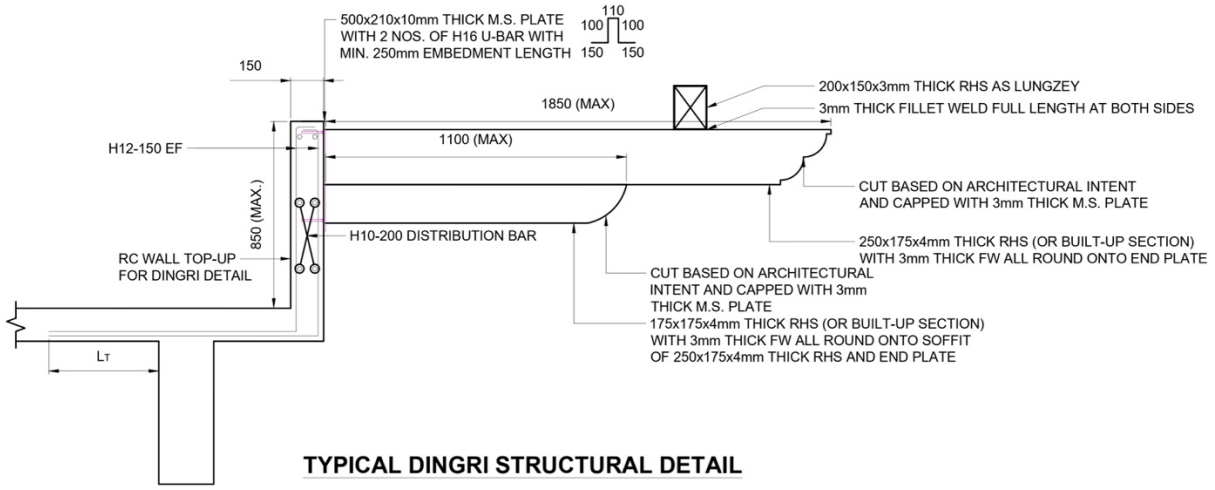
46



ZHU REINFORCEMENT DETAIL
REFER ARCHITECTURE DRAWING FOR ZHU DETAIL



END PLATE CONNECTION DETAIL FOR DINGRI



TYPICAL DINGRI STRUCTURAL DETAIL



གཞི་རྒྱན་མགོ་ཚོང་བོང་བའེལ་ལྟང་བྱོགས་པིག་ཚང་།
ཐུན་མོང་།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING
(ROID)

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

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DRAWING TITLE

DENGRI AND ROOF LEVEL DETAIL

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

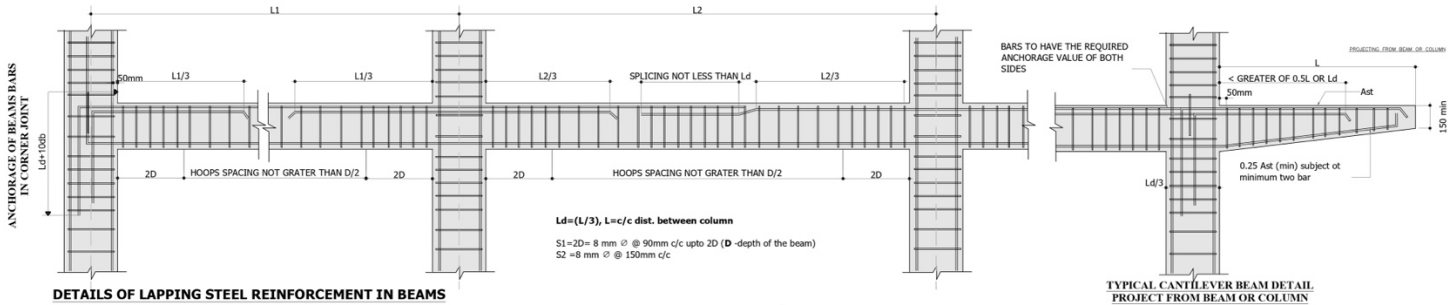
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

ENDORSED BY:

DESIGNATION **(BFDA)**

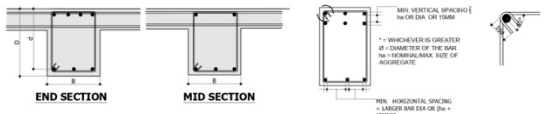
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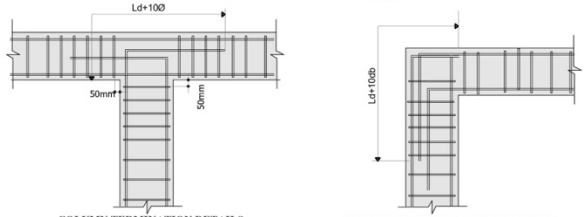
46



DETAILS OF LAPPING STEEL REINFORCEMENT IN BEAMS

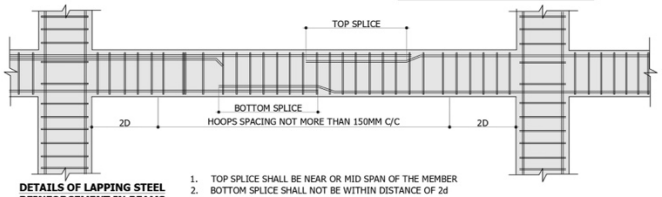
TYPICAL CANTILEVER BEAM DETAIL PROJECT FROM BEAM OR COLUMN





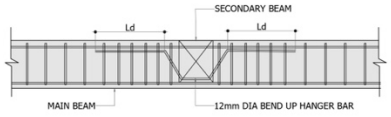
COLUMN TERMINATION DETAILS IN BEAM (ELEVATION)

ANCHORAGE OF BEAMS BARS WHERE COLUMN TERMINATES



DETAILS OF LAPPING STEEL REINFORCEMENT IN BEAMS

1. TOP SPLICE SHALL BE NEAR OR MID SPAN OF THE MEMBER
2. BOTTOM SPLICE SHALL NOT BE WITHIN DISTANCE OF 2d FROM JOINT FACE OF A BEAM MEMBER



SECONDARY BEAM DETAIL

NOTE:

1. NOT MORE THAN 50% OF THE REINFORCEMENT SHALL BE SPLICED AT ONE SECTION
2. TOP REINFORCEMENT OF BEAMS SHALL BE SPLICED NEAR MID-SPAN OR AT MID-SPAN, WHILE BOTTOM REINFORCEMENT SHALL NOT BE SPLICE AT:
   (a) WITHIN A JOINT
   (B) WITHIN A DISTANCE OF 2D FROM THE FACE OF COLUMN
   (c) MID-SPAN
3. MINIMUM SPLICE LENGTH SHALL BE EQUAL TO DEVELOPMENT LENGTH OR 57Ø
4. THE ENDS OF STIRRUPS SHALL BE BENT AT 135° WITH HOOK LENGTH OF 10Ø AND IT SHALL BE EMBEDDED IN THE CONFINED CORE OF THE SECTION
5. IN AN EXTERNAL JOINT, BOTH THE TOP AND THE BOTTOM BARS OF THE BEAM SHALL BE PROVIDED WITH ANCHORAGE LENGTH BEYOND INNER FACE OF THE COLUMN EQUAL TO THE DEVELOPMENT LENGTH IN TENSION PLUS 10 TIMES THE BAR DIAMETER i.e (Ld+10Ø).
6. IN AN INTERNAL JOINT BOTH TOP AND BOTTOM BARS OF THE BEAM SHALL BE TAKEN CONTINUOUSLY THROUGH THE COLUMN OR SHALL BE ANCHORED WITH AN ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH PLUS 10TIMES THE BAR DIAMETER i.e (Ld+10Ø).
7. COLUMN STIRRUPS MUST BE CONTINUOUS THROUGH BEAM COLUMN JOINT
8. CONFINING STIRRUPS SHALL BE PROVIDED UP TO TWICE THE DEPTH OF BEAM(2D0 FROM THE FACE OF COLUMN.
9. CLOSED STIRRUPS SHALL BE PROVIDED FOR THE FULL LENGTH OF SLICES.
10. CLEAR COVER=30MM
12. SHARP BENT IN MAIN REINFORCEMENT BARS SHALL BE AVOIDED AT LAPPING & BEAM-COLUMN JOINTS. MAXIMUM SLOPE OF 1:6 SHALL BE MAINTAINED IN THE BENDS.
13. LINTEL/BAND REINFORCEMENT CONNECTION PROVISION SHALL BE KEPT WHILE CASTING THE BEAM, COLUMN, SLAB
14. VERTICAL WALL REINFORCEMENT BARS SHALL BE PLACED WHILE CASTING THE SLAB PARTICULARLY FOR THE PROJECTED WALL/RABSEL WALLS

LAP AND SPLICES

Design anchorage length l_{bd} for ribbed bars ø ≤ 32 mm according to IS456: 2000 (γ_c = 1.50, f_{yk} = 500 MPa)

Type of Bars	Concrete Class	Bars in Tension, L_T	Bars in Compression, L_C
High Tensile Type II Deformed Bar (H)	M20	65ø	52ø
	M25	57ø	45ø
	M30	52ø	42ø
	M35	46ø	37ø
	M40	41ø	33ø

ཀཱཡེ་བྷྲཱ་ནཾ་ཚར་བོང་འཕེལ་ལུང་དོགས་མེཏཱ་ཚང་།། ལུང་ཚོགས་སྲོང་།།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

{ROID}

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

AGENCY

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DRAWING TITLE

BEAM DUCTILE DETAILING AND SPLICING NOTE

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

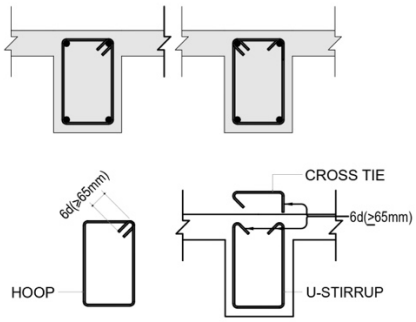
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

ENDORSED BY:

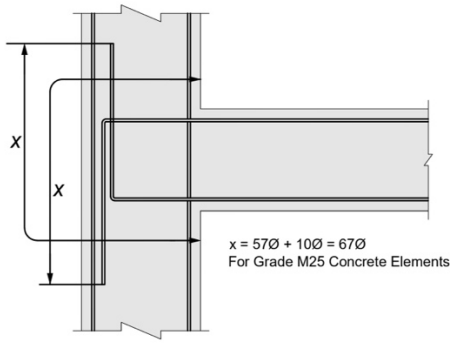
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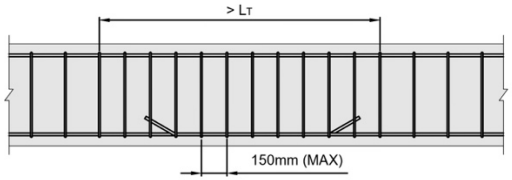
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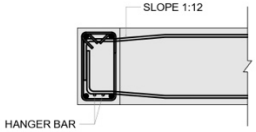
DETAILS OF TRANSVERSE REINFORCEMENT IN BEAMS



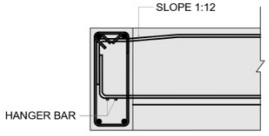
ANCHORAGE OF LONGITUDINAL BEAM BARS AT EXTERIOR BEAM-COLUMN JOINT



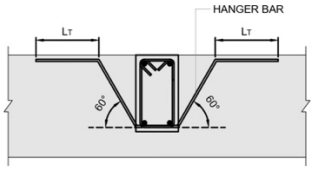
LAP LENGTH AT LOCATION OF SPLICING OF LONGITUDINAL BARS IN BEAM



JUNCTION OF MAIN & SEC. BEAM (EQUAL DEPTH)



JUNCTION OF MAIN & SEC. BEAM (UNEQUAL DEPTH)



HANGER BARS DETAIL

BEAM WIDTH	NUMBER OF HANGER BAR
B < 300mm	2H12
B < 400mm	3H12
B < 500mm	4H12
B < 'n'00mm	(n-1)H12

'n' DENOTES FIRST LETTER OF BEAM WIDTH

ཁག་ཐེབ་རྩིས་མཁས་འཕེལ་ལུང་ཕྱོགས་ཡིག་ཚང་།།
ཕུན་ཚོགས་གླིང་།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

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DRAWING TITLE

BEAM DUCTILE DETAILING NOTE

SCALE: NTS

5/5/2026

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DRAWN BY:

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APPROVED BY:

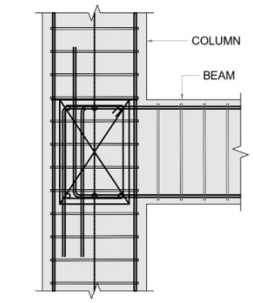
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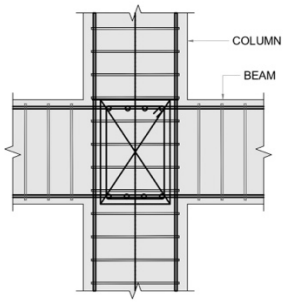
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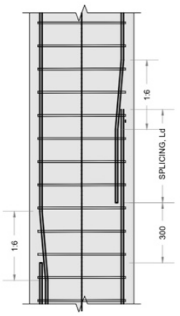
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EXTERIOR, COLUMN-BEAM JOINT(L/S)

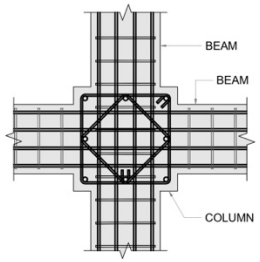


INTERI0R, COLUMN-BEAM JOINT(L/S)

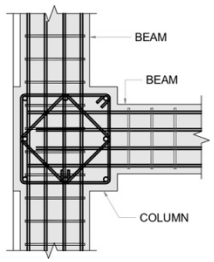


COLUMN LAP SPLICING DETAIL(L/S)

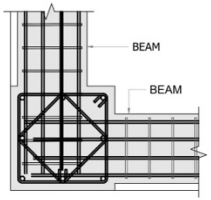
TYPICAL REINFORCEMENT DETAILS IN RC MEMBERS/ELEMENTS/JOINTS/CUTS ETC.



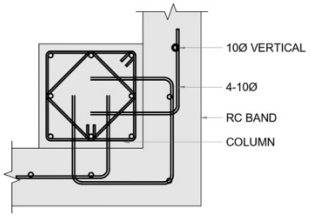
INTERIOR, COLUMN-BEAM JOINT(PLAN)



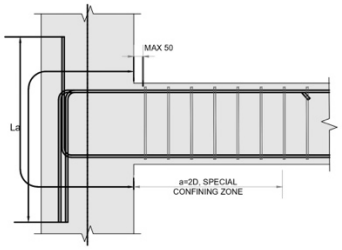
EXTERI0R, COLUMN-BEAM JOINT(C/S)



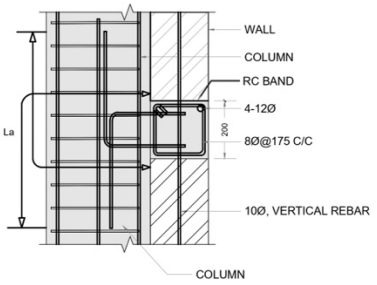
CORNER, COLUMN-BEAM JOINT(C/S)



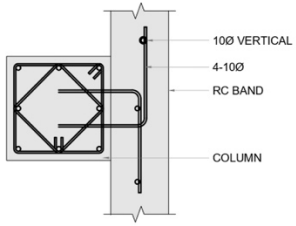
CORNER COLUMN-WALL BAND CONNECTION (C/S)



TYPICAL BEAM-COLUMN CONNECTION DETAIL



COLUMN-WALL BAND CONNECTION(L/S)



INTERMEDIATE COLUMN-WALL BAND CONNECTION(C/S)



REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

{ROID}

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DRAWING TITLE

BEAM DUCTILE DETAILING NOTE

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

ENDORSED BY:

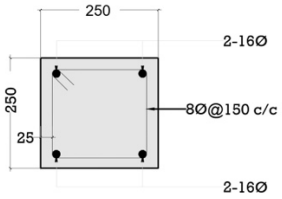
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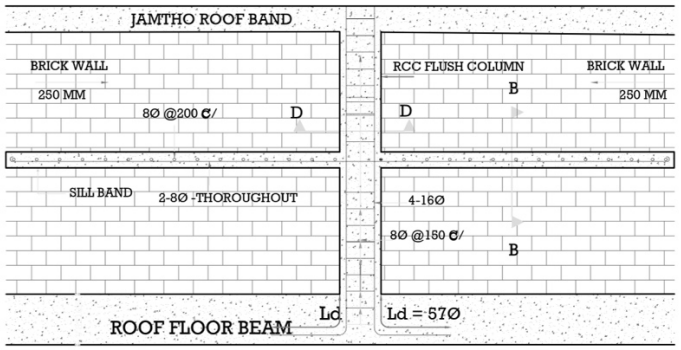
PAGE

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(FLUSH COLUMN) "FC"

250W x 250D

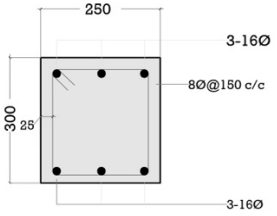


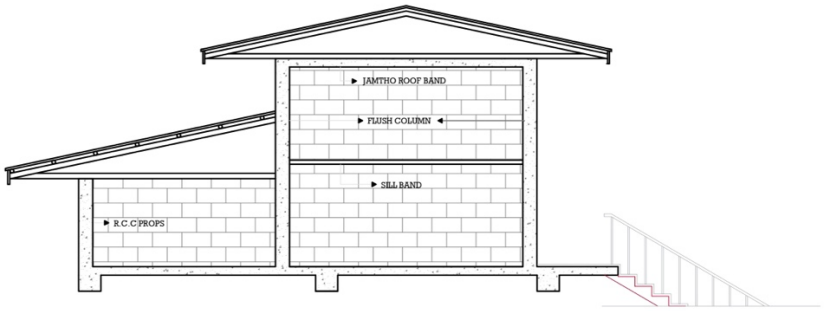


FLUSH COLUMN & JAMTHOG BAND REINFORCEMENTS DETAILS

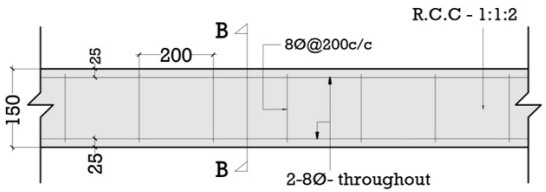
(JAMTHOG BAND) 250W x300D

SECTION A-A

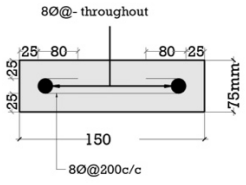




TYPICAL JAMTHOG FLOOR ELEVATION



SILL BAND DETAILS



Section B-B



REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

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DRAWING TITLE

FLUSH COLUMN * JAMTHONG BAND DETAIL

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

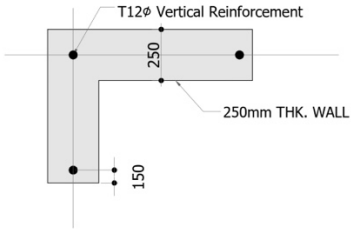
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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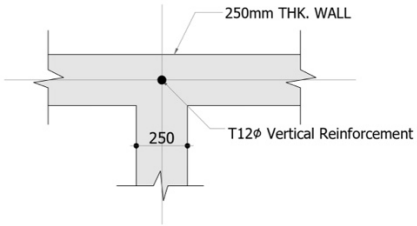
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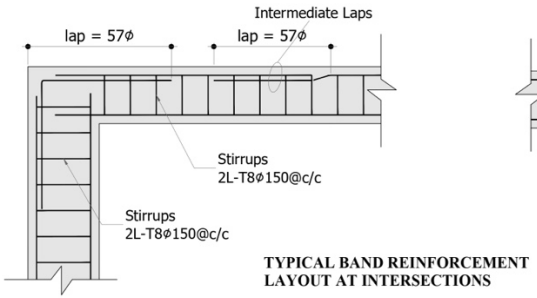
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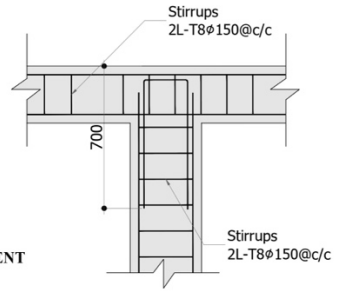


TYPICAL VERTICAL REINFORCEMENT DETAILS AT CORNERS AND WALL OPENING EDGE OF 250mm THK. WALL

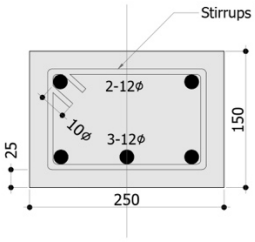


TYPICAL VERTICAL REINFORCEMENT DETAILS AT JUNCTIONS OF 250mm THK. WALL

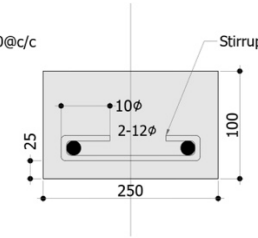




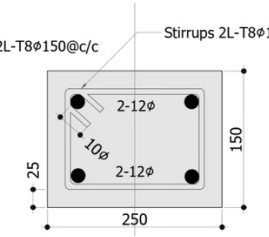
TYPICAL BAND REINFORCEMENT LAYOUT AT INTERSECTIONS



PLINTH BAND DETAILS



LINTEL BAND ABOVE 250mm THK. WALL AND OPENINGS



ROOF BAND DETAILS

NOTES:
-EXTERNAL WALL WILL HAVE LINTEL BAND THROUGHOUT AND INTERNAL WALL WILL HAVE CUT LINTEL BAND OVER THE OPENINGS.
-LINTEL BAND SHALL BE PROVIDED ABOVE ALL WINDOWS AND DOORS.
-LINTEL BAND SHALL BE EXTENDED AT LEAST 200MM BEYOND THE EDGE OF OPENING INTO THE MASONRY WALL.
-CONTINUOUS LINTEL BEAM SHALL BE PROVIDED WHERE THE GAP BETWEEN TWO OPENINGS IS LESS THAN 500MM.
-OVERLAPPING SPLICE SHALL BE OF LENGTH 57Ø IN CASE OF SPLICE REQUIREMENT AND BARS SHALL BE PROPERLY TIED USING BINDING WIRE.
-LINTEL SHALL BE PROVIDED OVER THE WINDOWS AND DOOR AS SHOWN ON THE DRAWING.
-COVER TO REINFORCEMENT SHALL BE AT LEAST 25MM.
-TIES OF 8MMØ BAR AT A SPACING OF 150MM SHALL BE PROVIDED FOR MAIN REINFORCEMENT.
-USE TMT REBARS OF FE500.
-USE CONCRETE MIX OF M15.
-ALL EXTERNAL WALL BANDS SHALL BE PROVIDED AT THE EXTERNAL EDGE OF THE WALLS AND ALL OTHER INTERNAL BANDS SHALL BE PROVIDED AT THE CENTER OF THE INTERNAL WALLS.

NOTES:
-VERTICAL BARS ARE PROVIDED AT THE JUNCTIONS OF THE WALLS & AT A DISTANCE OF 150MM FROM BOTH THE SIDES OF ALL THE OPENINGS AS SHOWN IN VERTICAL REINFORCEMENT LAYOUT PLANS.
- THE DISTANCES PROVIDED IN THE VERTICAL REINFORCEMENT LAYOUT PLAN ARE MEASURED FROM CENTER OF THE BARS TO THE INDICATED POINTS (EDGES OF THE OPENING OR TO THE OTHER CENTERS OF THE BARS).
- REFER ARCHITECTURAL PLAN AND THE PROVIDE THE OPENINGS IN THE WALLS EXACTLY AS PER REQUIREMENT.
-12MM DIA. BARS (TMT/TOR FE500) ARE TO BE USED FOR ALL REINFORCING WORKS IN THE WALLS OF THE MASONRY BLOCKS, UNLESS OTHERWISE SPECIFIED.
-THESE VERTICAL BARS SHALL BE ANCHORED TO THE FOOTING PCC AND PROPERLY TIED INTO THE BANDS.
-THE CONCRETE MIX 1:2:4 (M15) USING COARSE AGGREGATE OF 10MM MAXIMUM SIZE SHALL BE USED TO FILL THE VOIDS AROUND THE VERTICAL BARS.



བཞི་རྩེན་མཁས་ཚལ་གོང་འཕེལ་ལྟང་ཁྱོན་བོད་ཀྱི་ཡིག་ཚང་།།
ཐུབ་ཚོགས་ལྡིང་།།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

[ROID]

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DRAWING TITLE

BAND DETAIL

SCALE: NTS

5/5/2026

DESIGNED BY:

MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

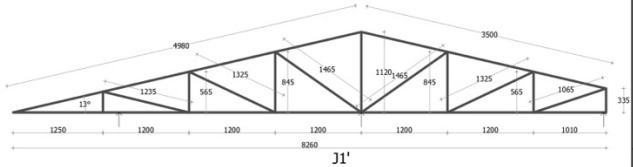
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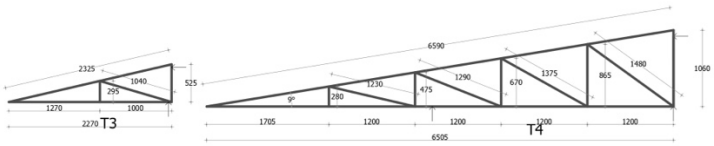
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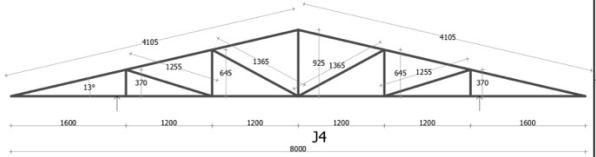
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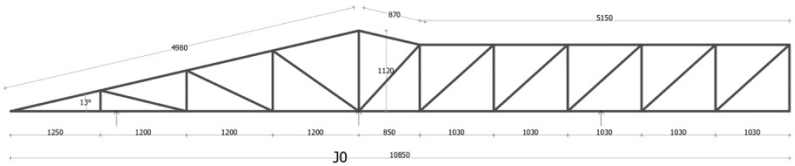
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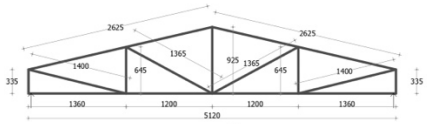


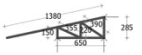


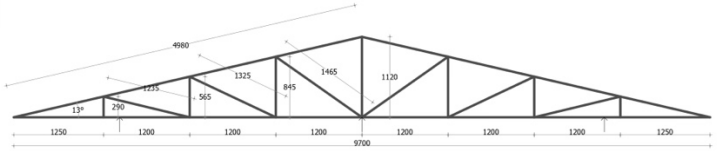


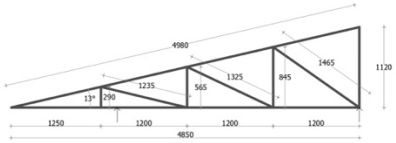


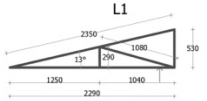












ALL TRUSS DEIMENSIONS SHOWN ARE INDICATIVE ONLY. FINAL FABRICATION SHALL BE BASED ON ACTUAL SITE MEASUREMENTS AND CONDITIONS

TRUSS MEMBER SIZE FOR ALL TRUSS

SI. No	MEMBERS	SIZE
1	BOTTOM CHORDS	60.3MM OD, 3.6MM THICK, 5.03KG/M
2	RAFTERS	60.3MM OD, 3.6MM THICK, 5.03KG/M
3	VERTICAL STRUTS	48.3MM OD, 3.2MM THICK, 3.56KG/M
4	INCLINED STRUTS	48.3MM OD, 3.2MM THICK, 3.56KG/M
5	PURLINS	48.3MM OD, 3.2MM THICK, 3.56KG/M @ 1200C/C(MAX)

གཞི་རྒྱན་མགོ་ཚབ་འཕེལ་ལྡང་ཞིག་ཡིག་ཚང་ ། ལྷན་ཚོགས་སྒྲིག་ ।।

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

[ROID]

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

AGENCY

BFDA

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TRUSS DETAIL

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5/5/2026

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APPROVED BY:

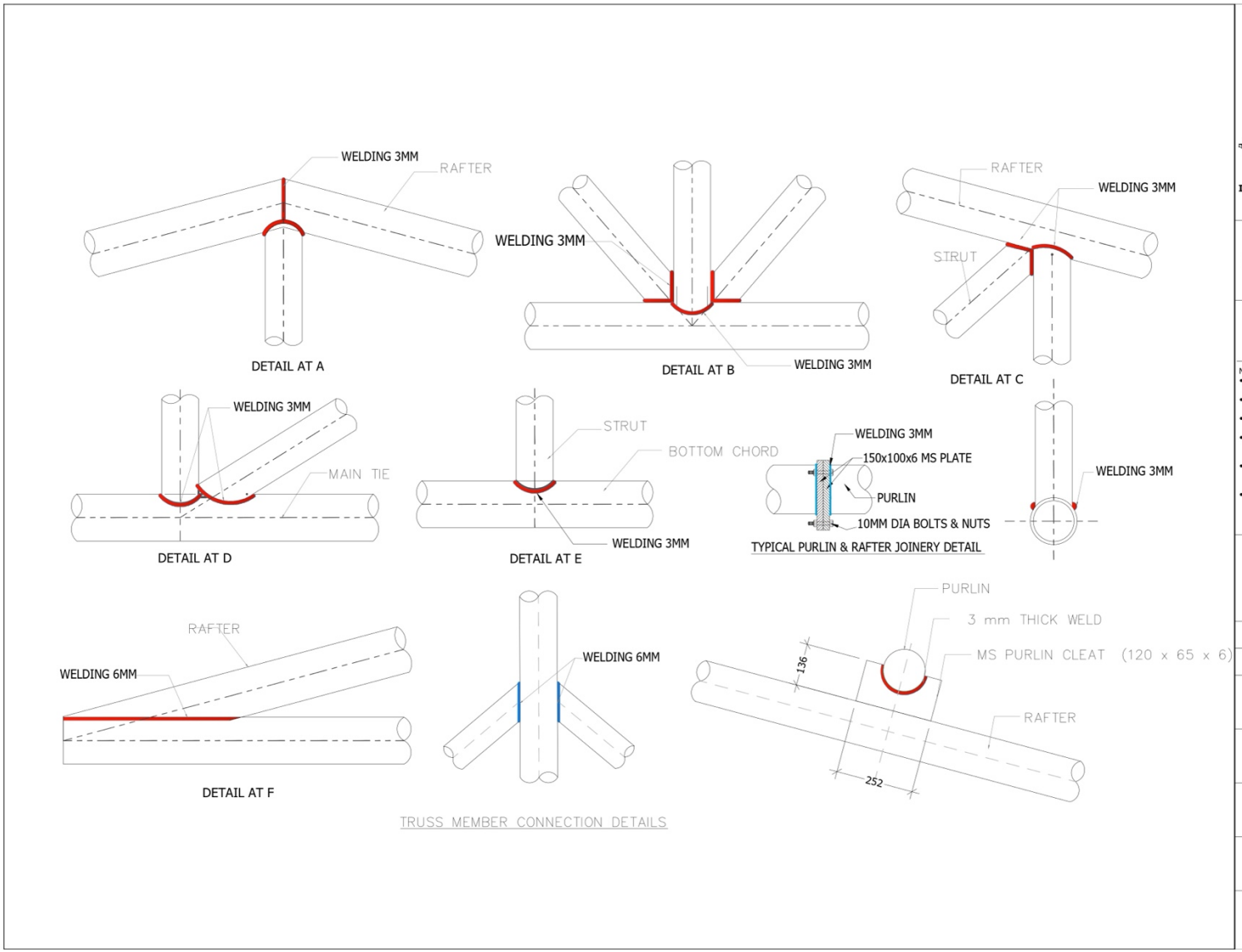
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

ENDORSED BY:

DESIGNATION **(BFDA)**

PAGE

46



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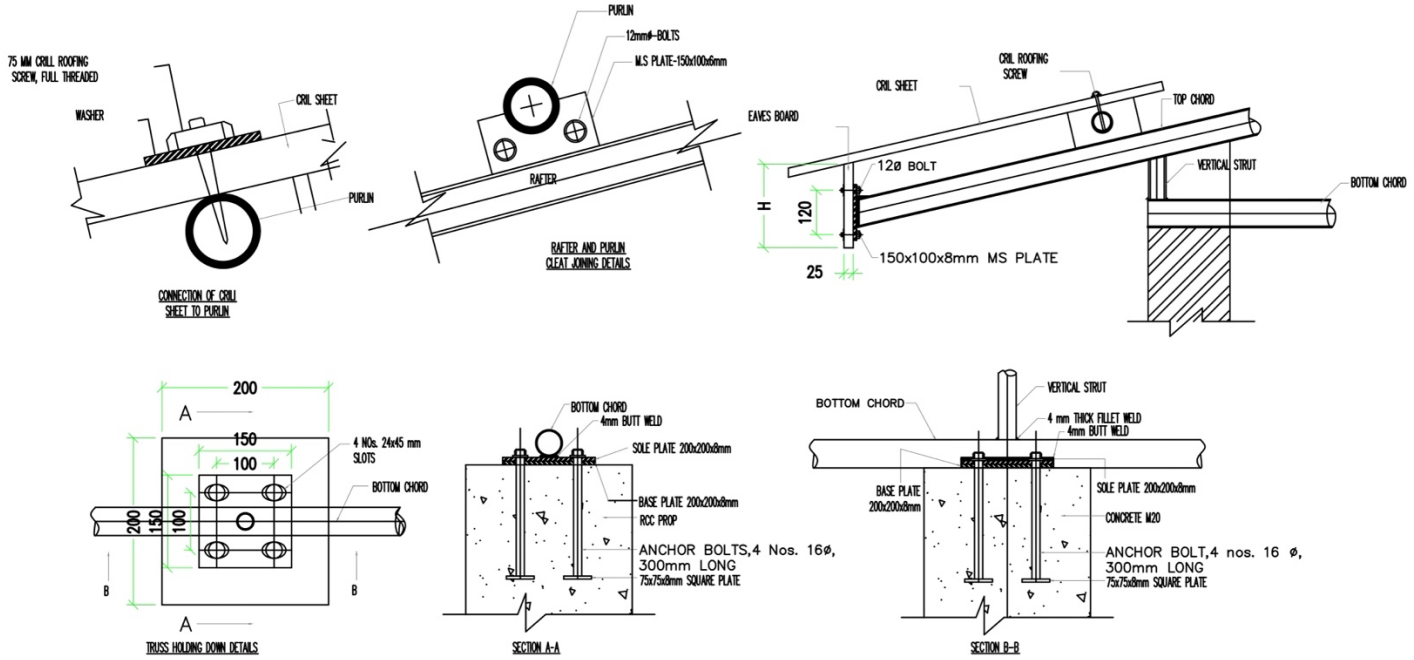
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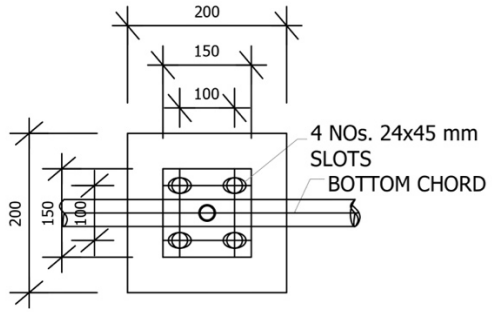
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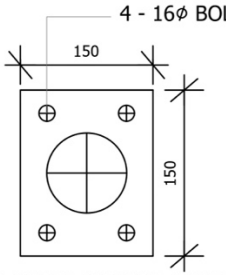
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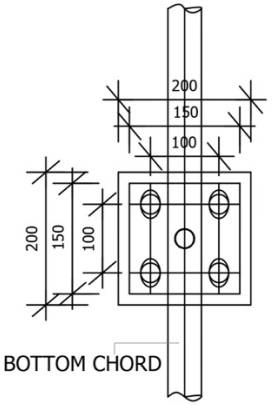
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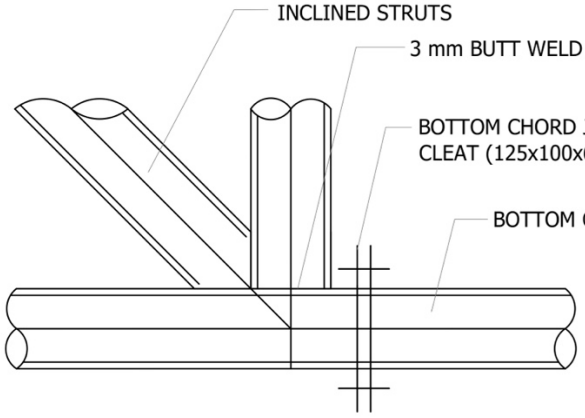
TRUSS HOLD-DOWN IN X DIRECTION



BOTTOM CHORD JOINING PLATE/CLEAT



TRUSS HOLD-DOWN IN Y DIRECTION



BOTTOM CHORD JOINING DETAILS

NOTES (FOR ROOF TRUSS):

1. THE GUSSET PLATES ARE MS PLATE OF DIFFERENT THICKNESS AND DESIGN CONFIRMS TO IS 806:1968
2. WELDING SHALL CONFORM TO IS"816
3. ALL ELECTRODES SHALL CONFORM TO IS:814 (PART -1).
4. ALL M.S BOLTS & NUTS SHALL CONFORM TO IS:1365 (PART 1-3)
5. WASHERS SHALL CONFORM TO IS:5369,IS:5370, IS:5372/IS:5374
6. HOLE SIZE = DIA OF BOLT + 1.5MM..
7. ALL STRUCTURES AFTER FABRICATION SHALL BE PAINTED WITH ANTI - CORROSIVE PAINTS.
8 ALL STRUCTURAL STEEL CONTACT SURFACES SHALL BE CLEANED OF ANY RUST, OIL. GREASE ETC. BEFORE WELDING/PAINTING.
9 WRITTEN DIMENSIONS SHALL BE FOLLOWED & DOUBT MUST BE CLARIFIED BEFORE EXECUTION OF THE WORK.

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[ROID]

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TRUSS HOLD DOWN DETAIL

SCALE: NTS

5/5/2026

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MAHESH TAMANG(ENGINEER)

DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

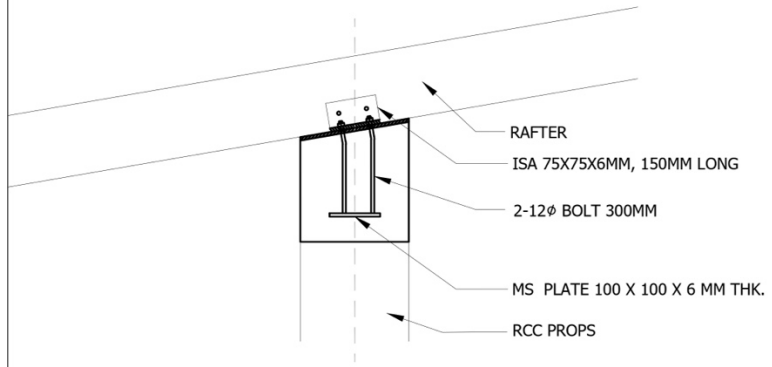
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

ENDORSED BY:

DESIGNATION **(BFDA)**

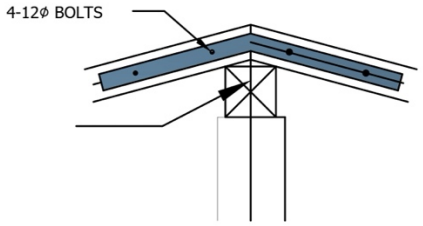
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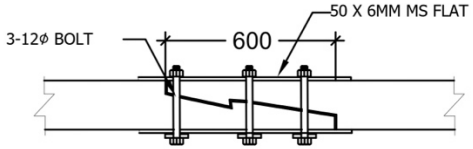


WALL PLATE & TRUSS FIXING DETAILS

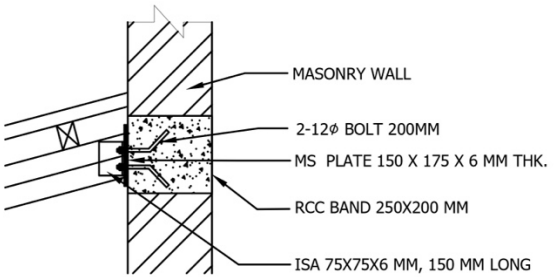
NOTE:
1. MS GUSSET PLATE SHALL BE 50 X 4 X 450 MM.
2. GUSSET PLATES TO BE PROVIDED FROM BOTH SIDES.
3. BOLTS SHALL BE 12 MM DIA WITH WASHERS.



DETAIL AT A



OBLIQUE TABLED SCARF JOINT FOR
TIMBER TIE, PURLIN & RAFTERS



TRUSS CONNECTION DETAILS TO RCC
BAND ON WALLS

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DRAWN BY:

SAMTEN NORBU (ENGINEER)

APPROVED BY:

GANESH PRASAD CHAMLAGAI
(INTERIM HEAD)

ENDORSED BY:

DESIGNATION **(BFDA)**

PAGE

46

ELECTRICAL DRAWING

PROPOSED CONSTRUCTION OF S+G+3+J SPS OFFICE

AGENCY:

BFDA

BHUTAN FOOD AND DRUG AUTHORITY

DESIGNED & DEVELOPED BY: **RoID-PHUNTSHOLING**

APRIL 2026

GENERAL ELECTRICAL SPECIFICATIONS

01.	All light point layout shall be of 1.5sq.mm PVC insulated copper conductor 1.1KVG
02.	All light circuit wiring shall be of 2.5sq.mm PVC insulated copper conductor 1.1KVG
03.	All Power point wiring shall be of 4sq.mm PVC insulated copper conductor 1.1KVG
04.	All light switch board shall be at +1.25m from finished floor level
05.	All power point shall be at +0.3m from finished floor level except for kitchen & toilet
06.	All power point shall be at +1.8m from finished floor level for Geyser
07.	All counter top switches shall be at +0.3m above counter top level
08.	All wall fixtures shall be at 2.1–2.5m from finished floor level
09.	All power point shall be at +0.3m above counter top level in kitchen
10.	All height of power points for fan provision shall be at +2.1m finish flood level

11.	No phase difference is allowed in same conduit
12.	Lighting circuit with 25mm dia. HDPE conduit
13.	Power point circuit with 25mm dia. HDPE conduit
14.	Some assumption are as follows: i. Power factor = 0.95 ii. Demand factor = 0.8
15.	16A sockets shall not be Looped
16.	SDB shall be placed at the height of 2.1–2.5m from finished floor level

SL.NO	ON COMPLETION OF THE INSTALLATION, THE FOLLOWING TEST RESULTS SHOULD SATISFY	
01.	Polarity test :–	All switches must be on live conductors
02.	Insulation test :–	Minimum test result should not be less than 1 MEGA OHM
03.	Earth continuity test :–	Low voltage test lamp should satisfy the whole installation
04.	Earthing test :–	Test results should be within five [5] OHMS.

STANDARD SPECIFICATION:

01. HDPE conduit size shall be (25mm / 32) mm diameter
02. Wall bracket light fixture shall be placed at (2.1m to 2.5m) from finished floor level
03. Ceiling light fixture shall be placed as per the design drawing
04. Light switch board shall be placed at (1.25m) from finished floor level
05. Plug & socket outlet shall be placed at (0.3m) from finished floor level
06. In case of Kitchen & Toilet, it shall be placed at light point switch level
07. Sub Distribution Board shall be placed at (2.5m) from finished floor level
08. HDPE pipe should be embedded in the wall up to depth from (16mm to 25mm) from finished plaster level
09. Earth continuity wire size shall be not less than (1.5sq.mm and 2.5 sq.mm) PVC copper wire
10. Phase or Live conductor shall be looped at the switch board
11. Neutral conductor shall be looped from light points
12. All switches & socket outlets shall be flush mounted
13. 6A/10A rating switch shall be used for light point & 6A socket outlets
14. 16A rating switch shall be used for 16A power socket outlets
15. No socket shall be placed in bath or shower room
16. Socket outlet & plug shall be of three–pin type and third pin shall be connected to earth
17. Socket outlet & plug used at 25mm above shall be shutter type or interlocking type
18. Socket outlet for telephone shall be RG11 type
19. Telephone socket outlet shall be placed 0.3m from finished floor level
20. Telephone socket outlet & line shall be 0.5m away from any electrical point
21. Internal House wiring cables shall be ranges from 1.5sq.mm to 6sq.mm
22. Power cables shall be ranges from PVC sheathed armoured single core to four core
23. Switch board shall not be erected above gas, stove, sink or within 2.5m away of any washing units
24. All switch board connected to medium voltage and above shall be provide with "Danger Notice Plate"
25. All control switches & distribution board shall be duly marked
26. Insulation mats should be provided in front of main control unit

NOTE:
The cable lines from Main Control Panel Board to respective Sub Main Panel Board and from Sub Main Panel Board to respective Sub Distribution Board (SDB) shall be drawn through Electrical Shaft/ Duct provided.

LIGHTING LEGEND

	LP01	LED Tube Light 1x20W
	LP02	Surface LED DownLight 1x22W
	LT03	Surface LED DownLight 1x18W
	LP04	Surface LED DownLight 1x12W
	LP05	Surface LED PANEL LIGHT - 42W
	LP06	WALL MOUNTED MIRROR LIGHT LED - 10W
	LT07	RECESSED COB LIGHT -9W
	CF01	Ceiling fan, 70W 1200MM/1400 MM SWEEP
	FN01	Indoor Exhaust Fan 60W, 300/450MM SWEEP
DB-G01	DB-G01	Distribution Board
	LP06	RECESSED, LED ROUND PANEL LIGHT-18W
	LP07	LED HANGING LIGHT- 22W
	LP08	ROPE LIGHT - 8W/meter
	LP09	SURFACE LED DECORATIVE LIGHT-32W
	LP10	WALL BRACKET WITH 8W LED BULB
		CALL BELL
		5MP BULLET CCTV CAMERA

SOCKET LEGEND

- 16A, Power Socket, 2000W, Wall-mounted FFL+300/1500/2500MM
- 6A, Socket, 100watt, Wall-mounted FFL+1500 MM
- RJ45 SOCKET L FFL+300MM
- T.V SOCKET FFL+300MM
- SWITCH BOARD FFL+1500MM



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ལྷན་ཚོགས་སྡེ་ཁྲ།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING
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AS STATED ABOVE

SCALE: NTS

28/04/2026

DESIGN & DRAWN BY:
TSHERING YANGZOM (ENGINEER)

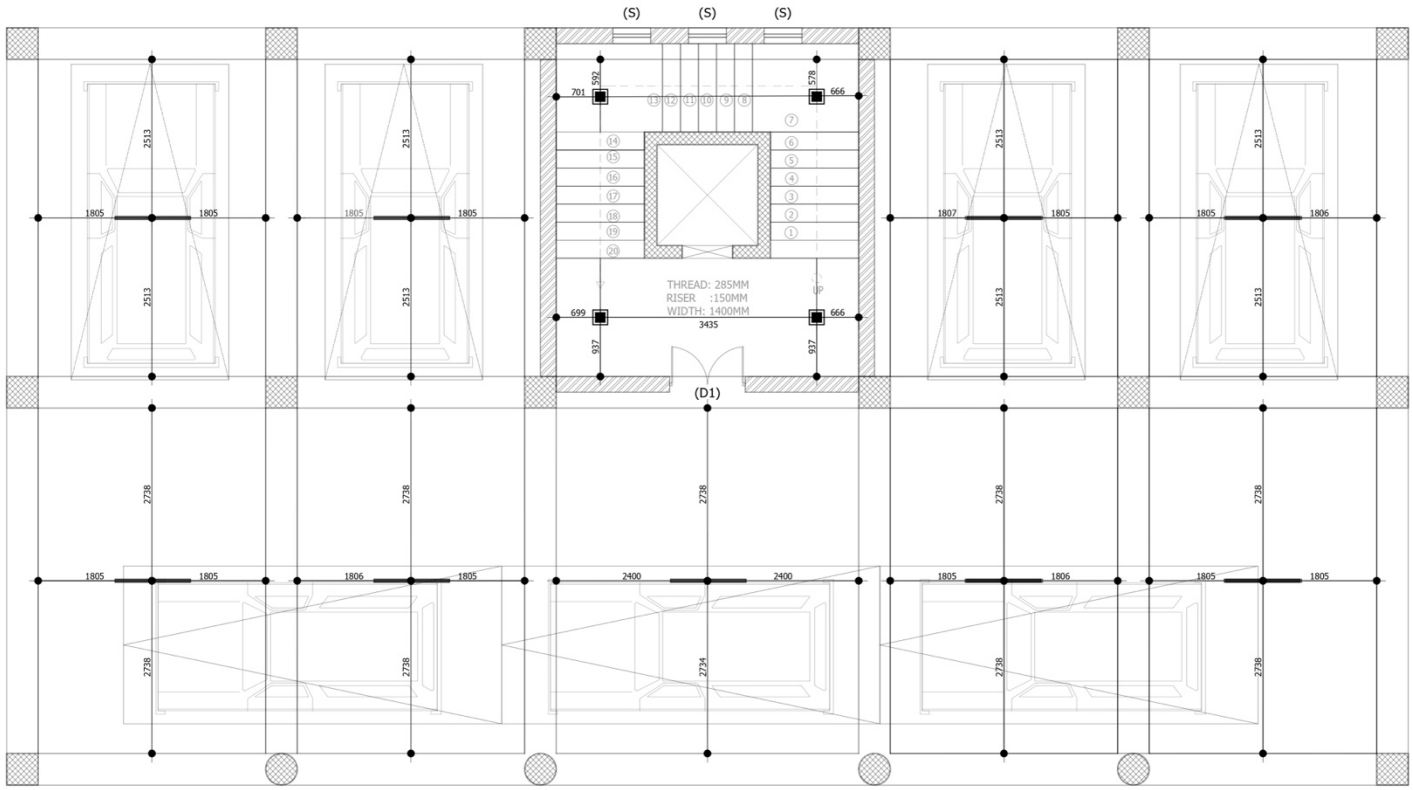
CHECKED BY:
GANESH PRASAD CHAMLAGAI (ARCHETECT)

APPROVED BY:
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

ENDORSED BY:
DESIGNATION (BFDA)

PAGE

Model



FIXTURE LAYOUT PLAN: STILT

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28/04/2026

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TSHERING YANGZOM (ENGINEER)

CHECKED BY:

GANESH PRASAD CHAMLAGAI (ARCHITECT)

APPROVED BY:

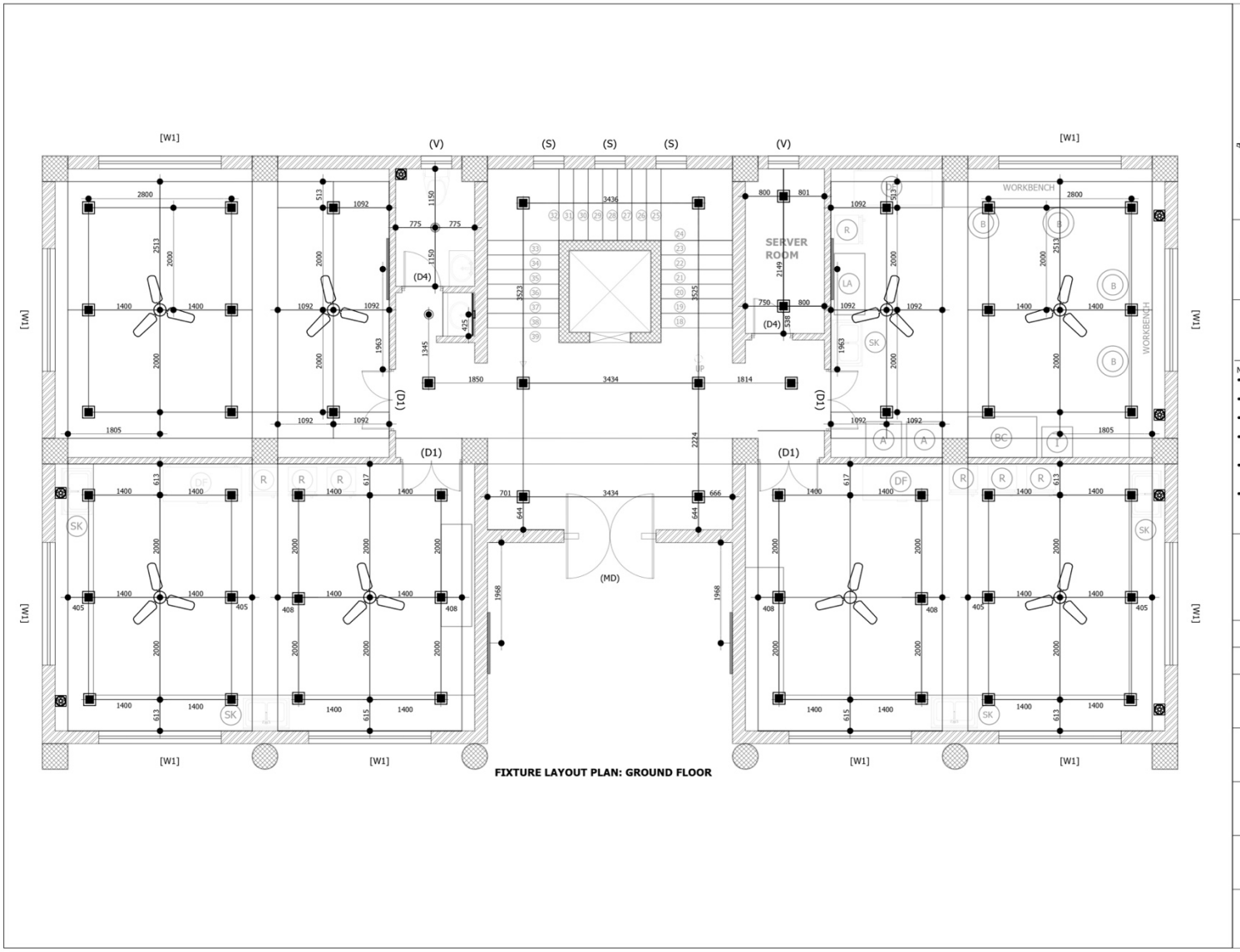
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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FIXTURE LAYOUT PLAN: GROUND FLOOR

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

{ROID}

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

AGENCY

BFDA

NOTES:

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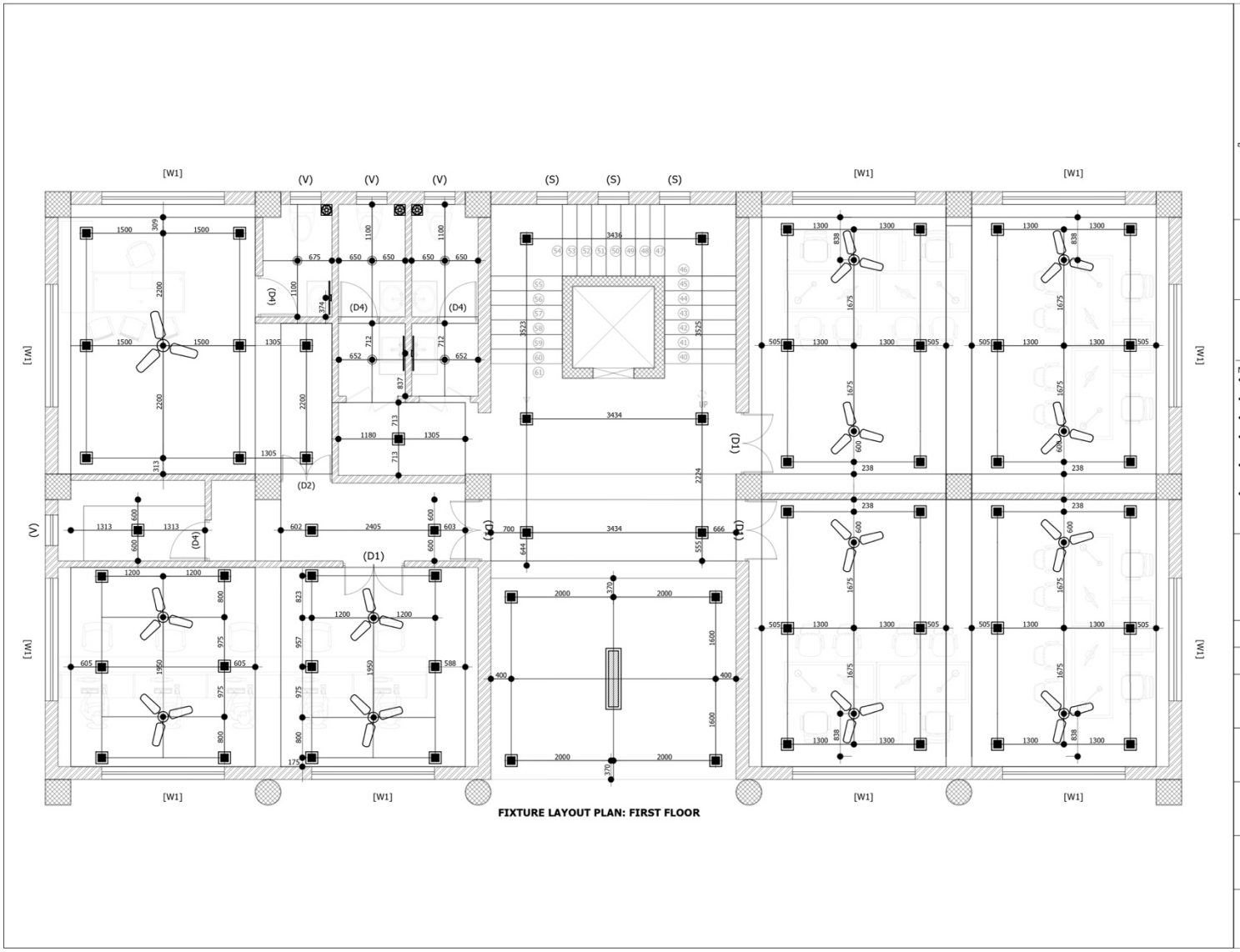
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REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

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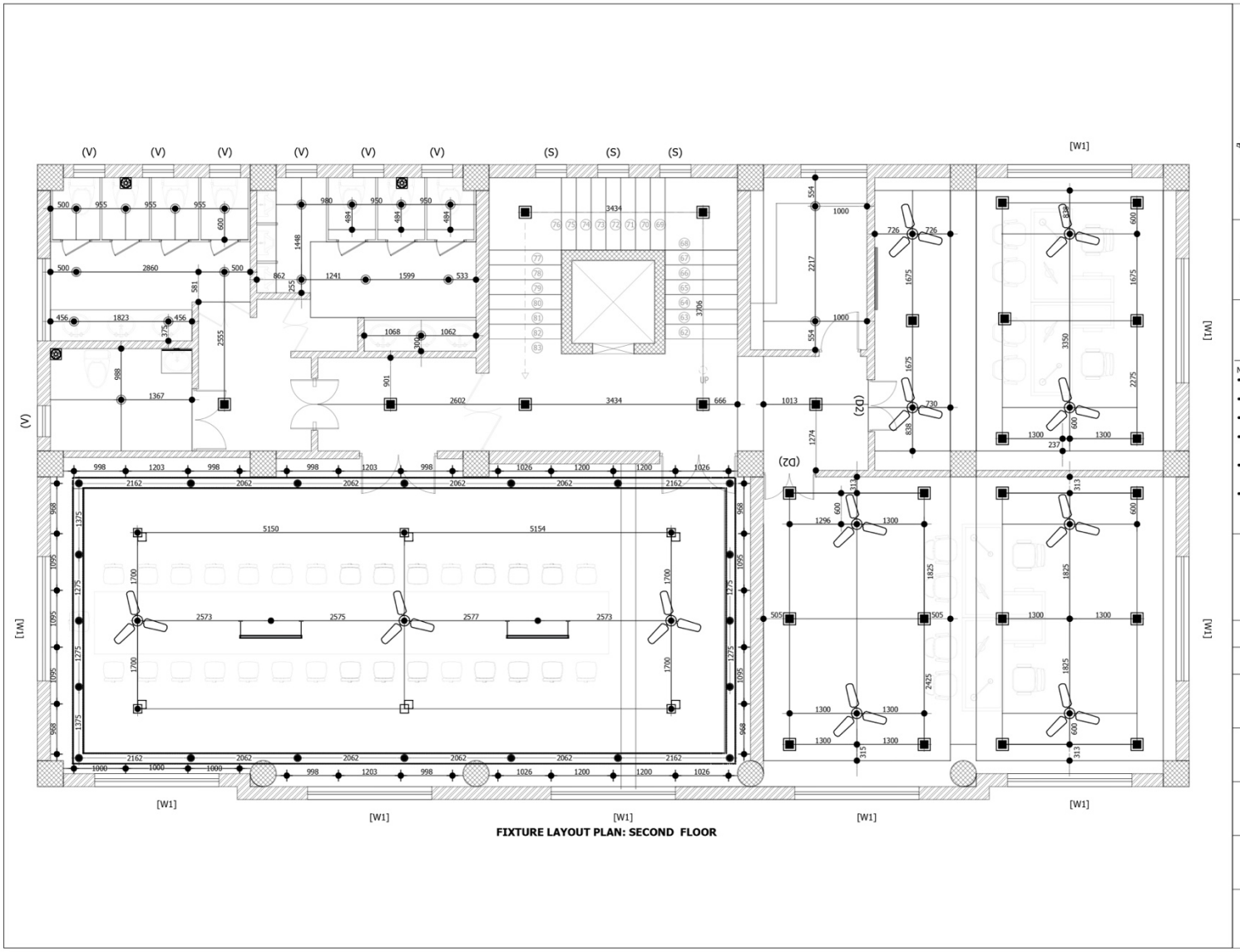
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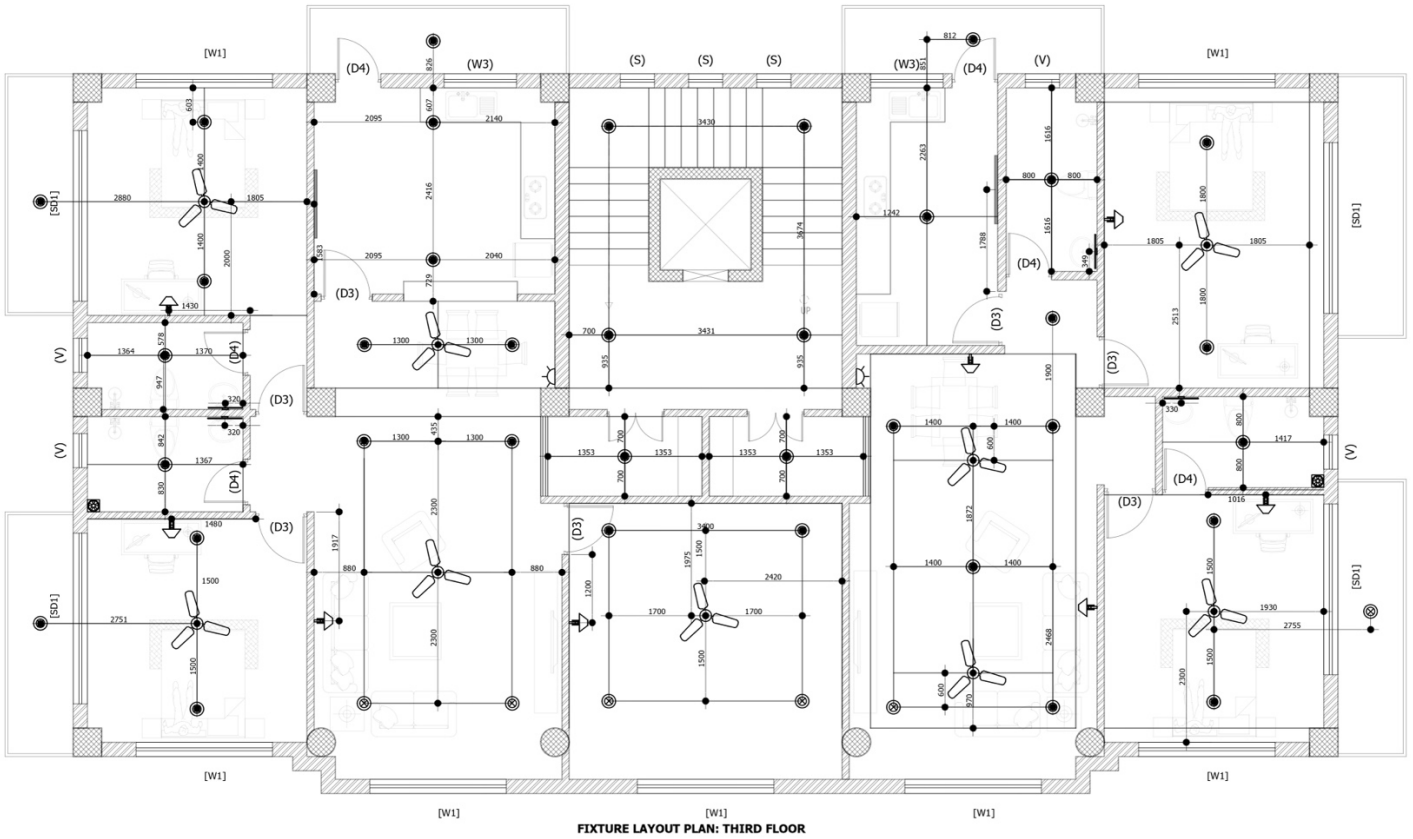
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FIXTURE LAYOUT PLAN: THIRD FLOOR

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING
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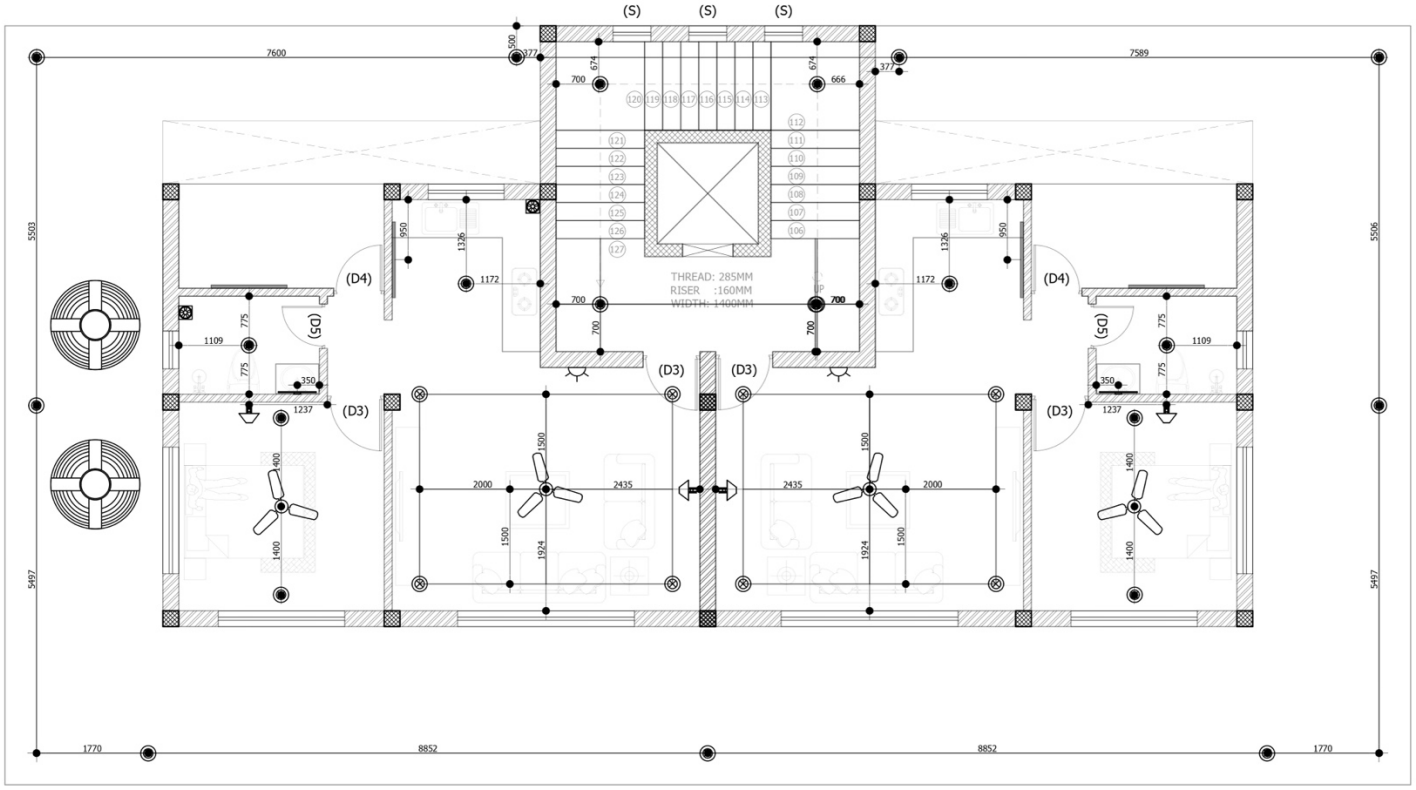
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FIXTURE LAYOUT PLAN: JAMTHOG

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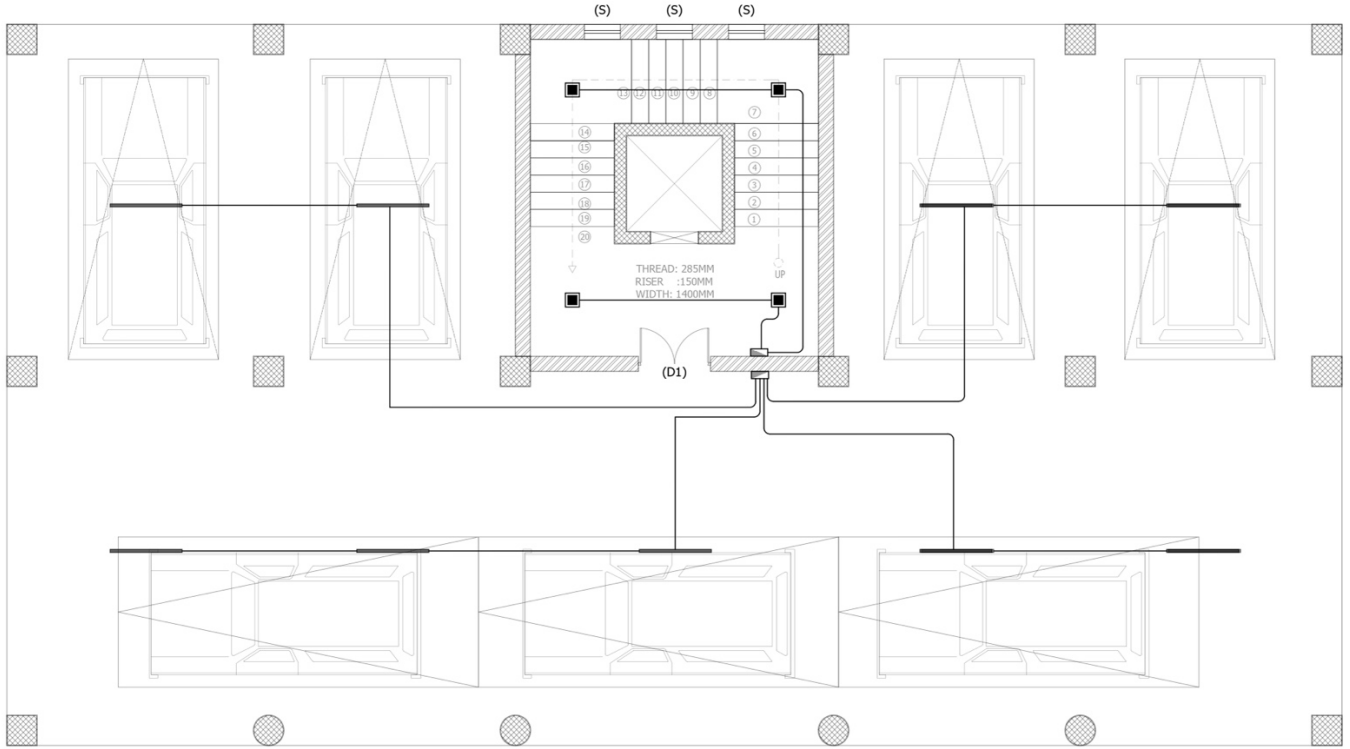
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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FIXTURE WIRING LAYOUT: STILT

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REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

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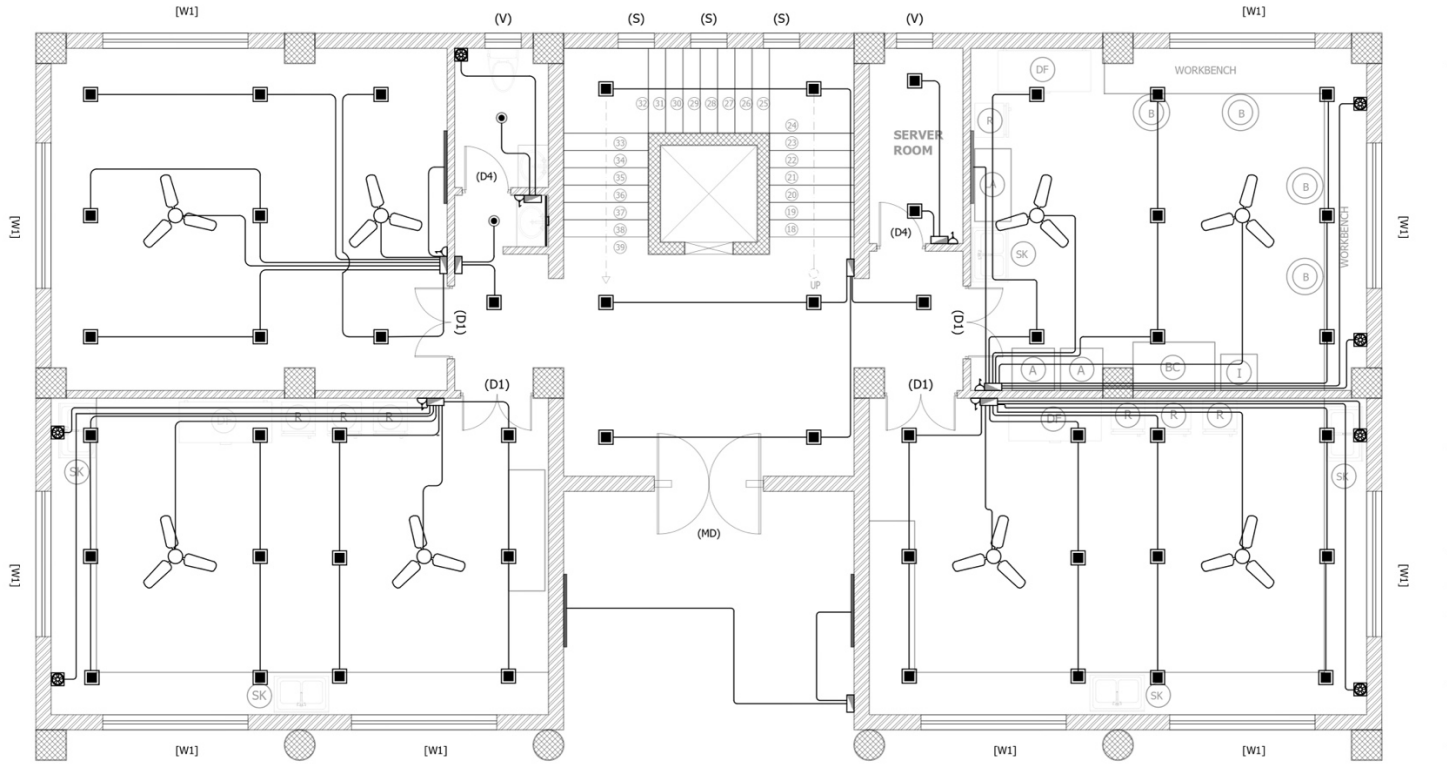
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FIXTURE WIRING LAYOUT: GROUND FLOOR



REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

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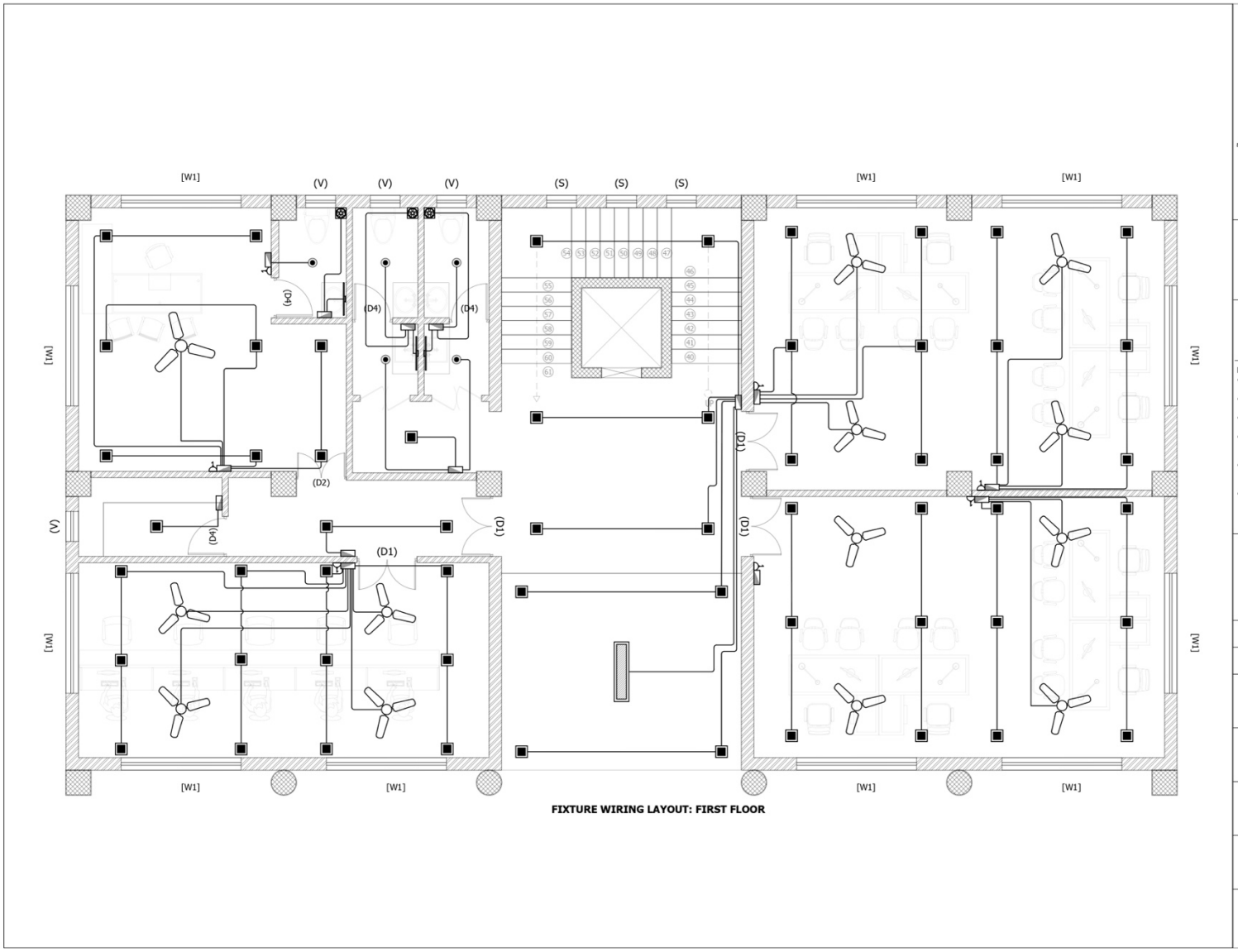
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REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

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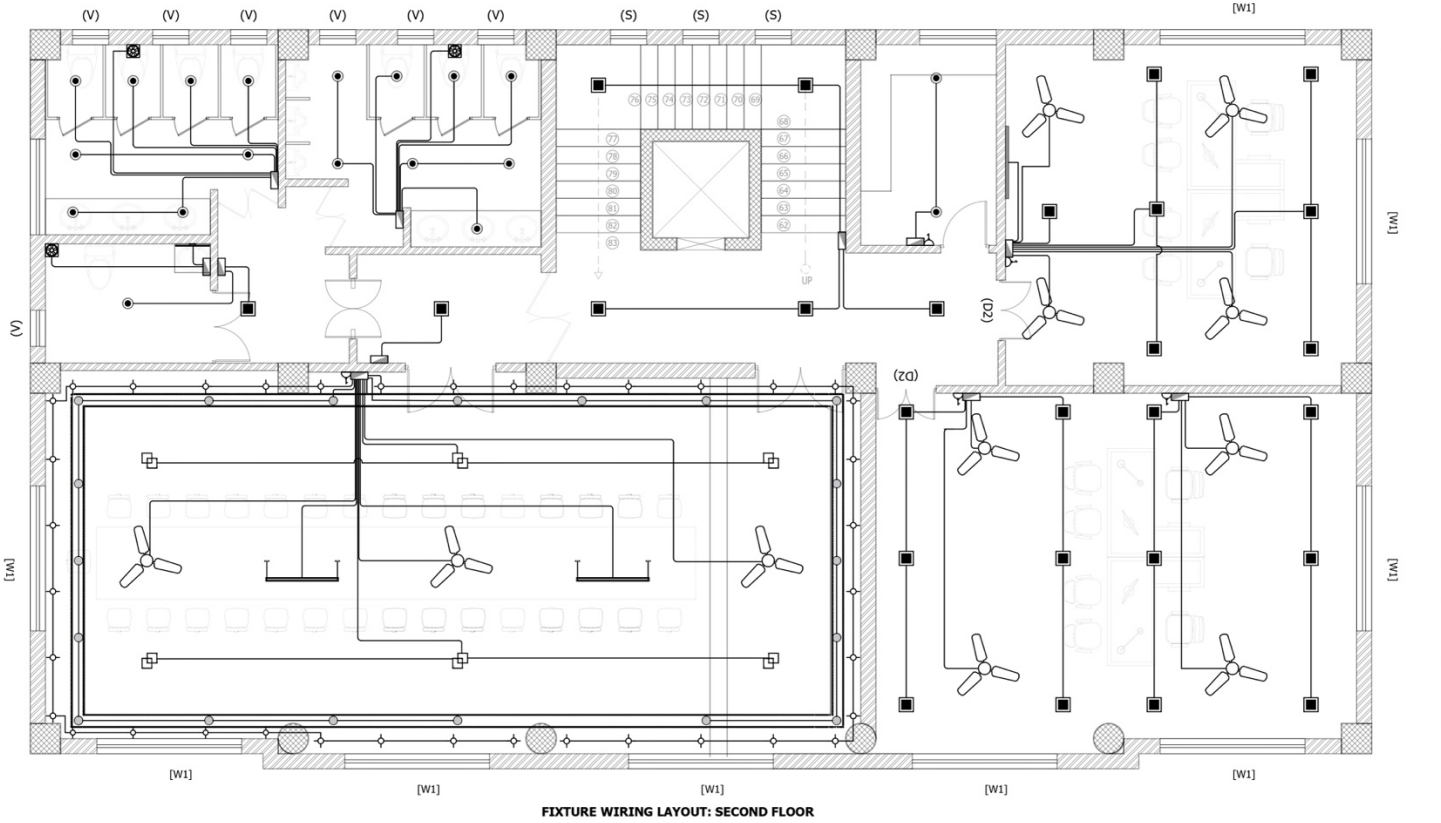
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FIXTURE WIRING LAYOUT: SECOND FLOOR



REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING
(ROID)

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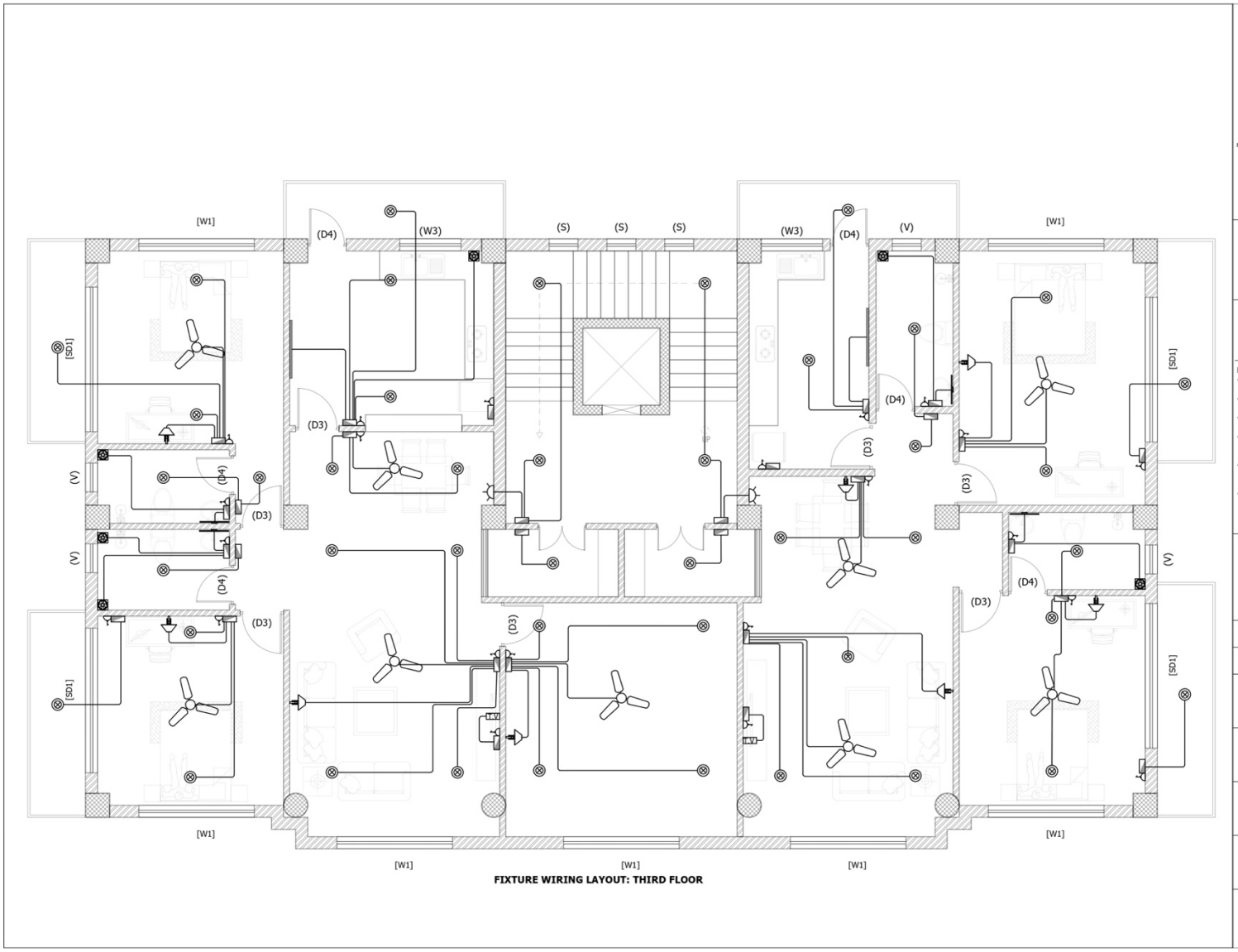
GANESH PRASAD CHAMLAGAI
(INTERIM HEAD)

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Model



FIXTURE WIRING LAYOUT: THIRD FLOOR

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སྡུམ་ཚོགས་ལྷོར་།།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

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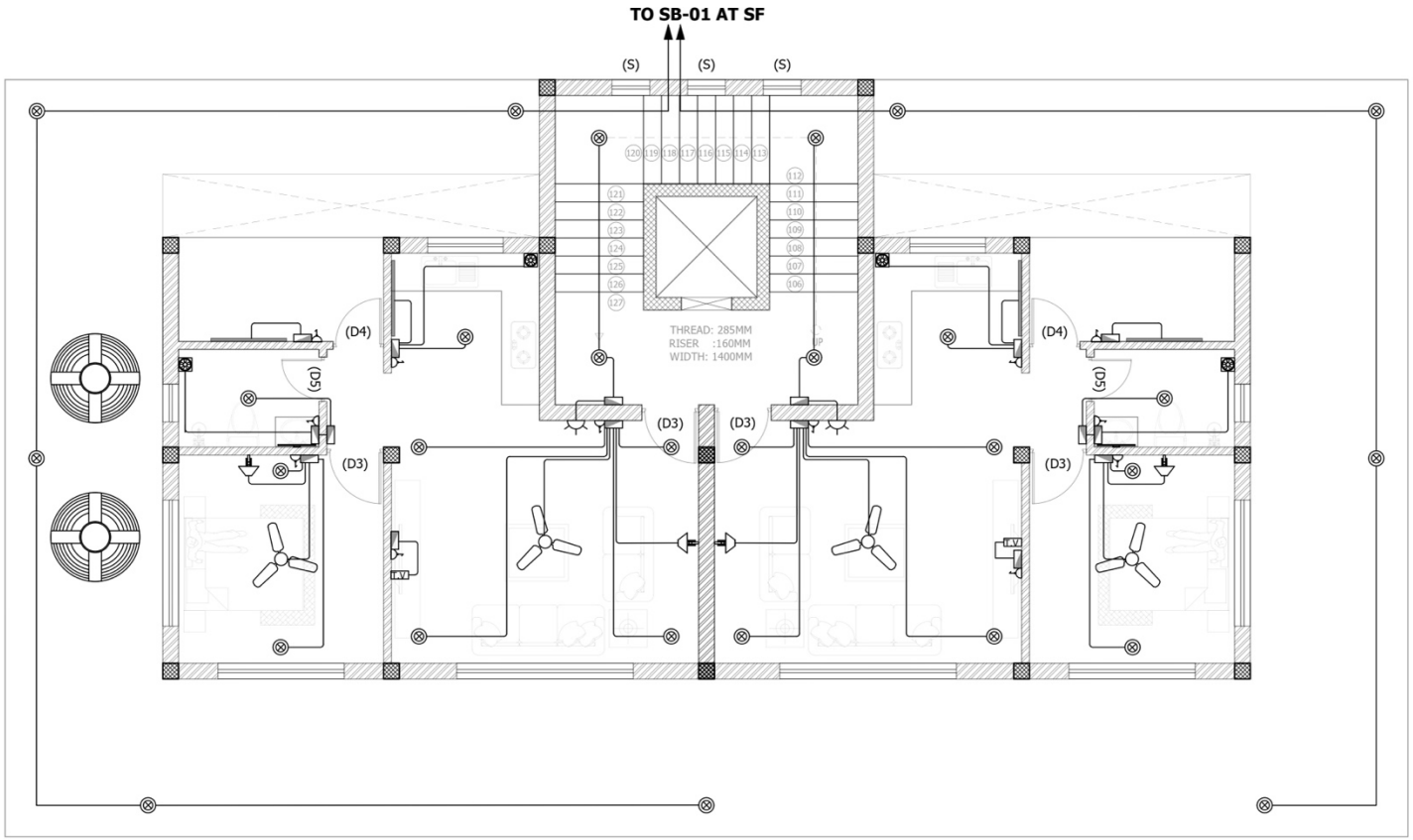
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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FIXTURE WIRING LAYOUT: JAMTHOG

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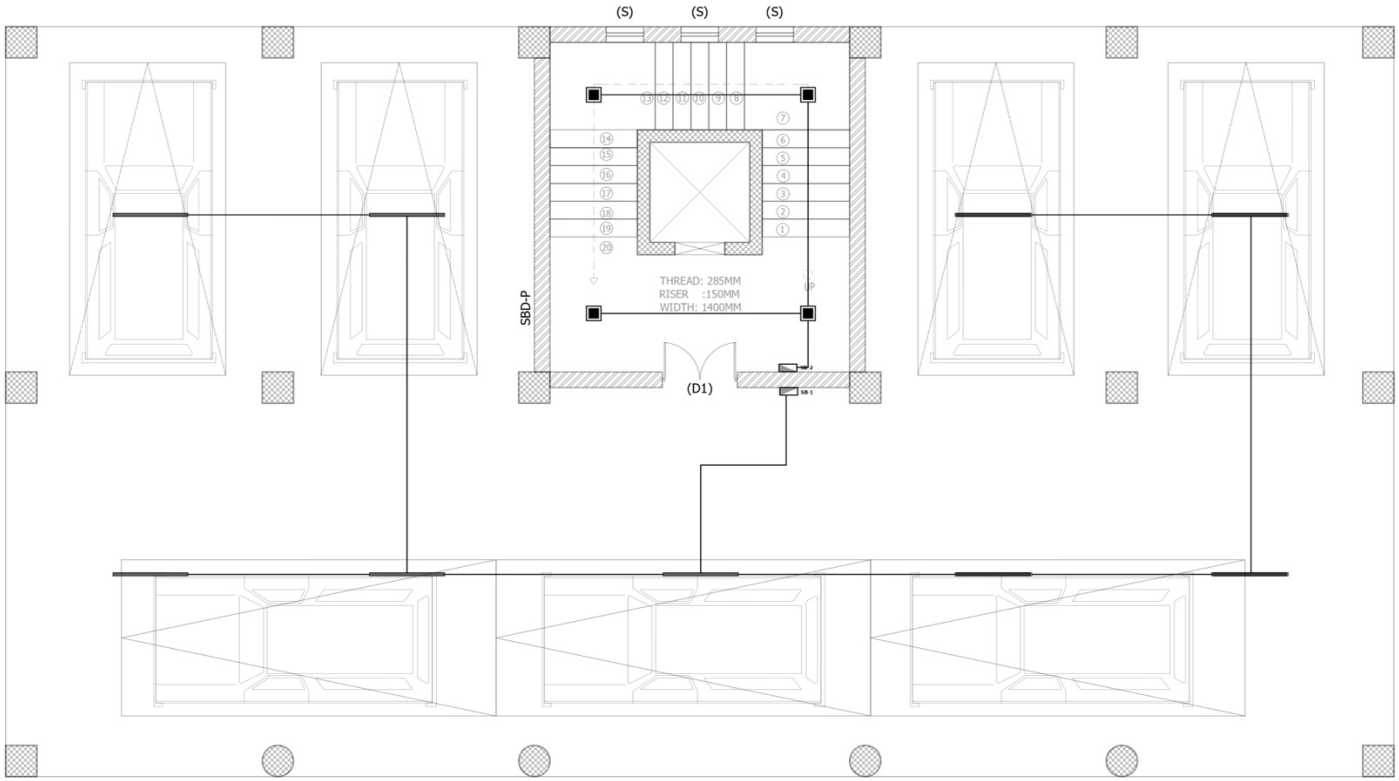
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CONDUIT LAYOUT FOR FIXTURE LAYOUT: STILT

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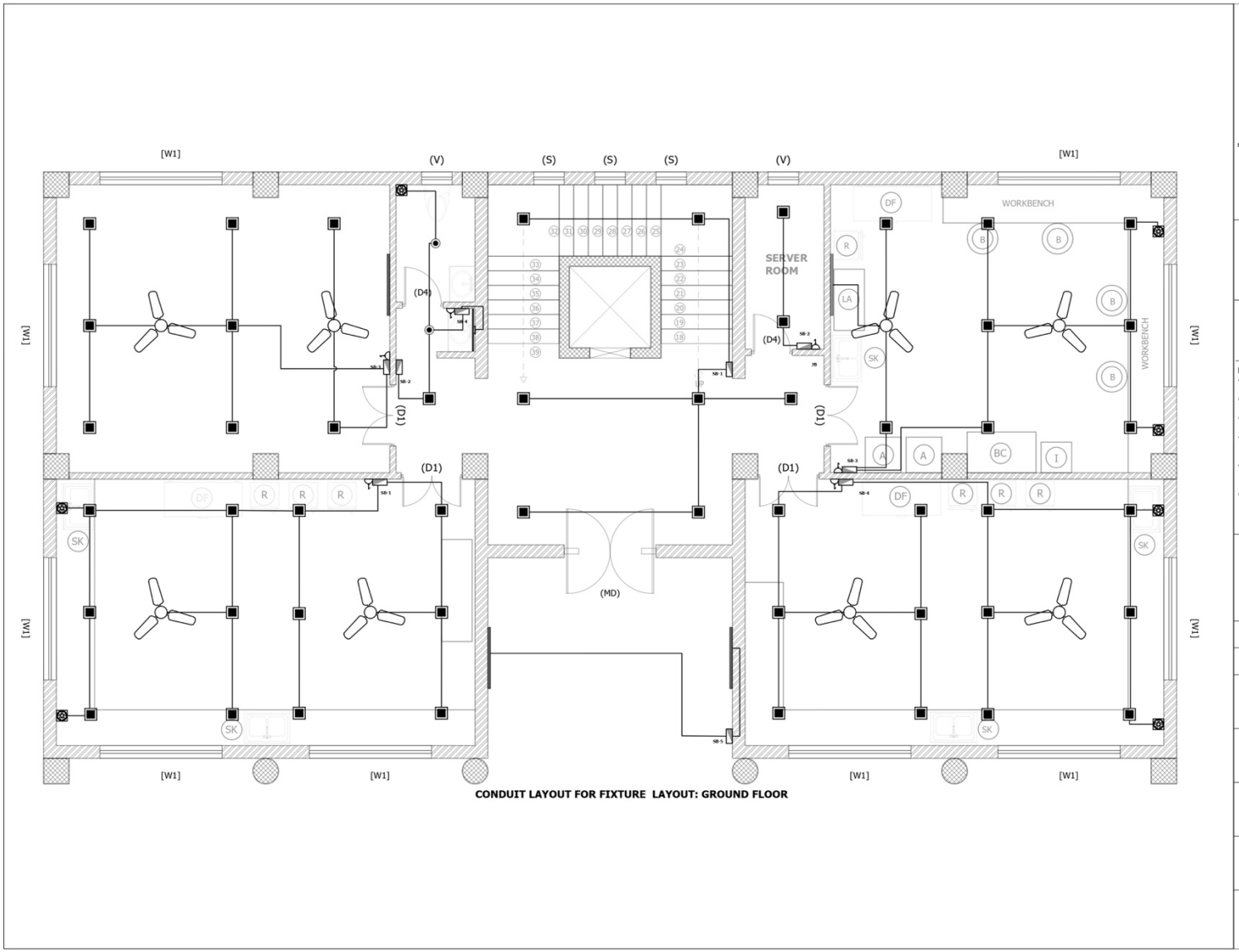
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CONDUIT LAYOUT FOR FIXTURE LAYOUT: GROUND FLOOR

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING
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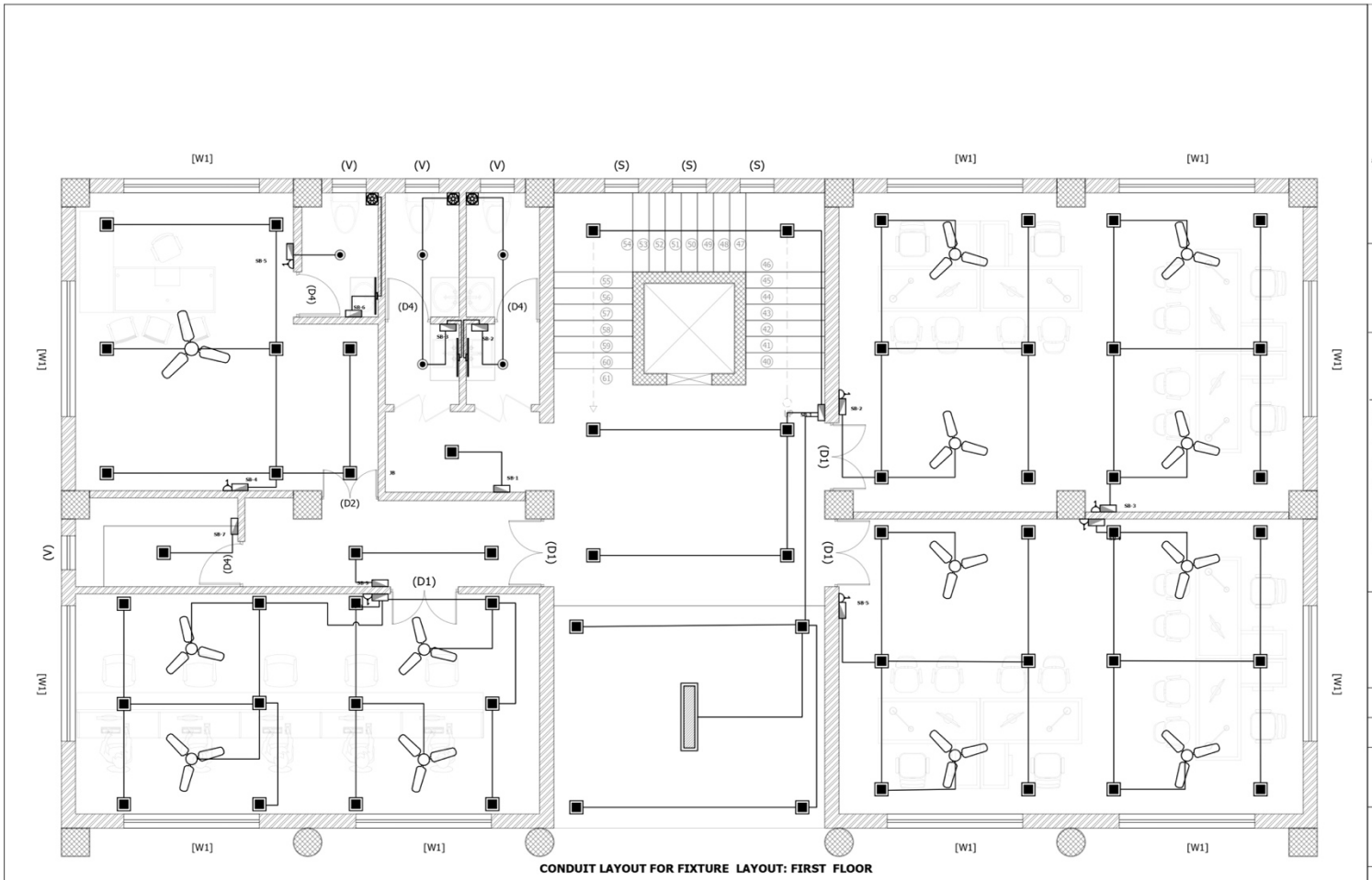
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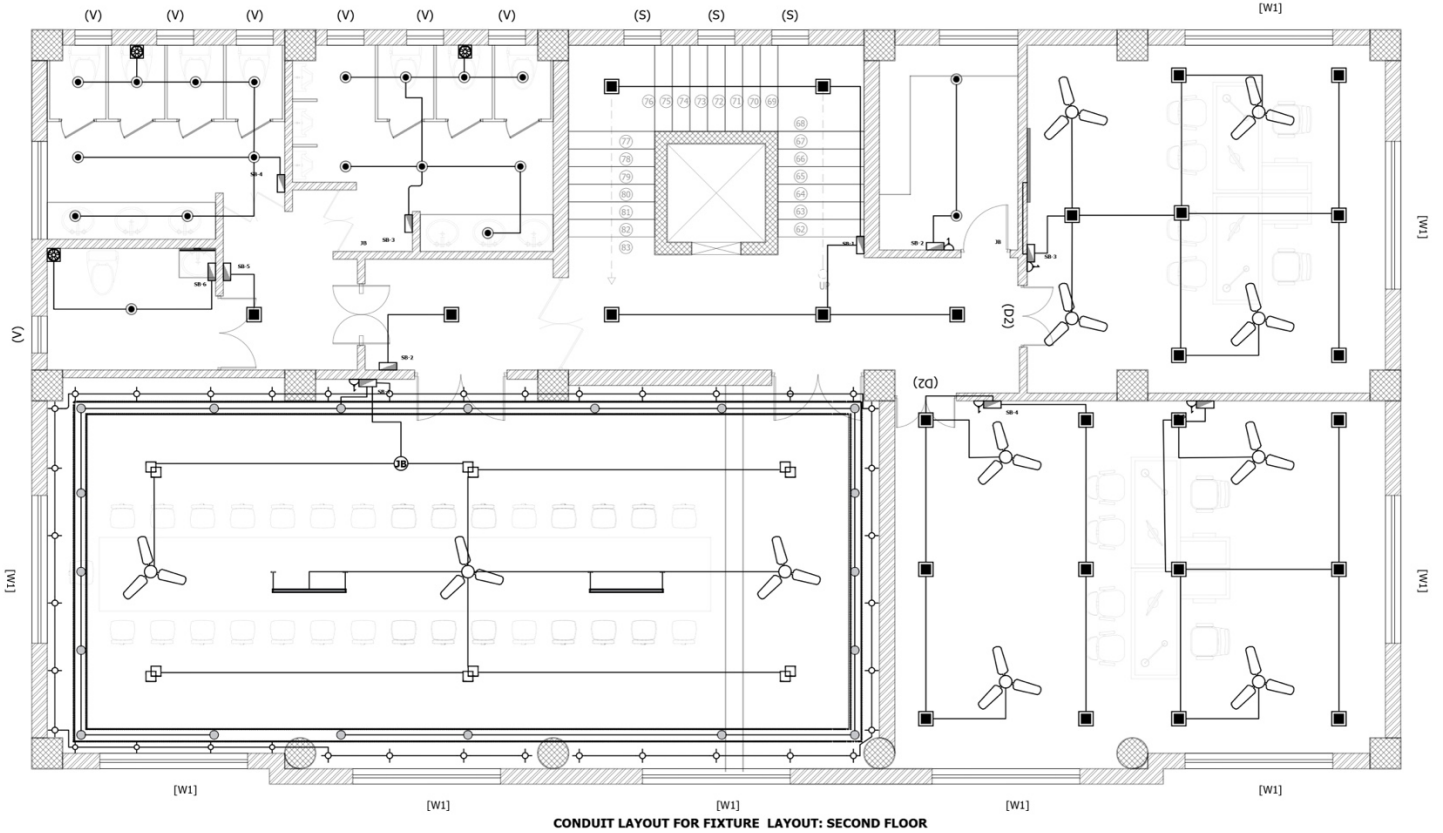
GANESH PRASAD CHAMLAGAI
(INTERIM HEAD)

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DESIGNATION **(BFDA)**

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Model



REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

{ROID}

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

AGENCY

BFDA

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE.
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DRAWING TITLE

AS STATED ABOVE

SCALE: NTS

28/04/2026

DESIGN & DRAWN BY:

TSHERING YANGZOM (ENGINEER)

CHECKED BY:

GANESH PRASAD CHAMLAGAI (ARCHITECT)

APPROVED BY:

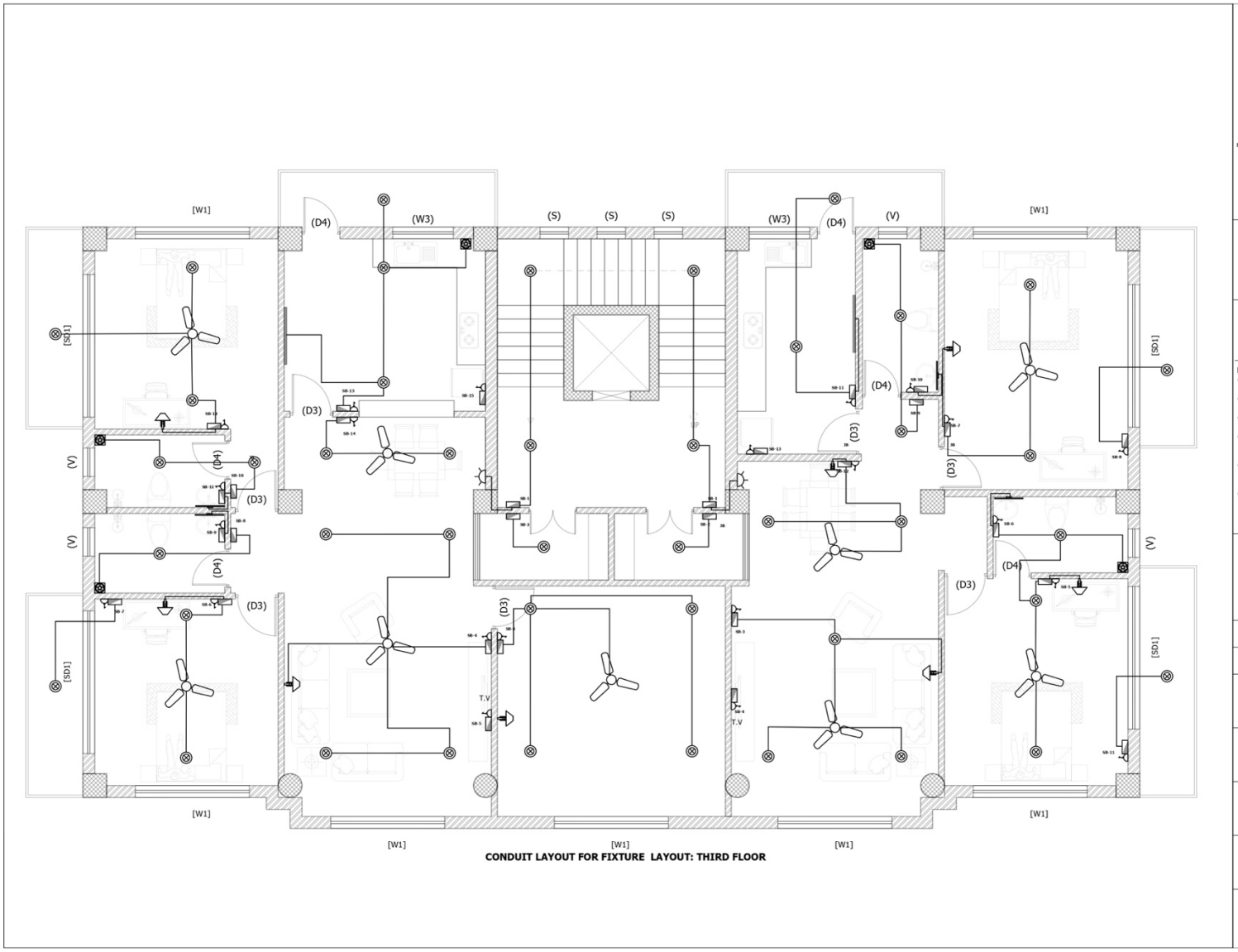
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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CONDUIT LAYOUT FOR FIXTURE LAYOUT: THIRD FLOOR

གཞི་རྒྱུན་མགོ་བོང་འཛེལ་ལྡན་བློ་གསལ་ཡིག་ཚང་།
ཐུབ་རྩོལ་ལས་ཀྱི།།

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

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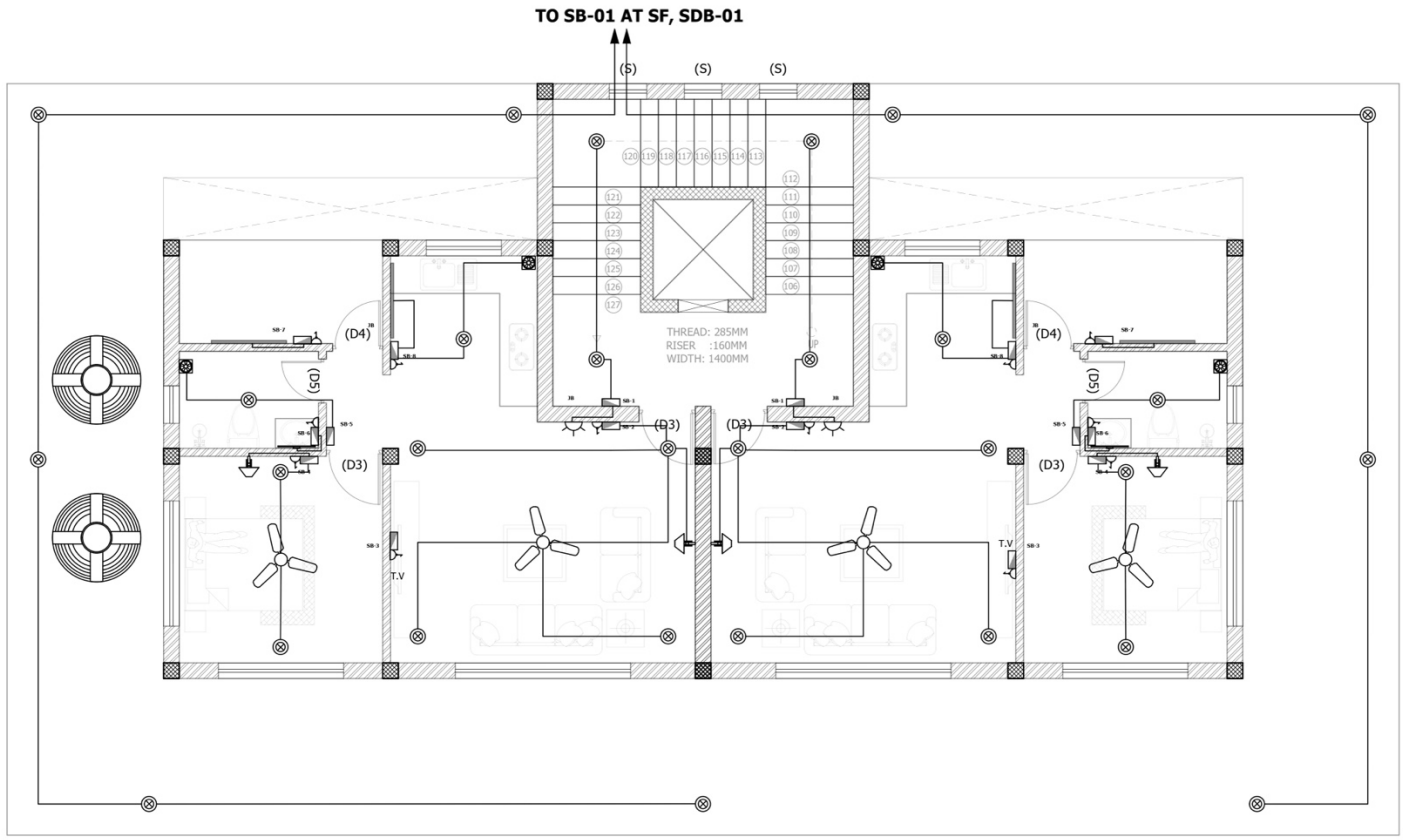
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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DESIGNATION **(BFDA)**

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CONDUIT LAYOUT FOR FIXTURE LAYOUT: JAMTHOG

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REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

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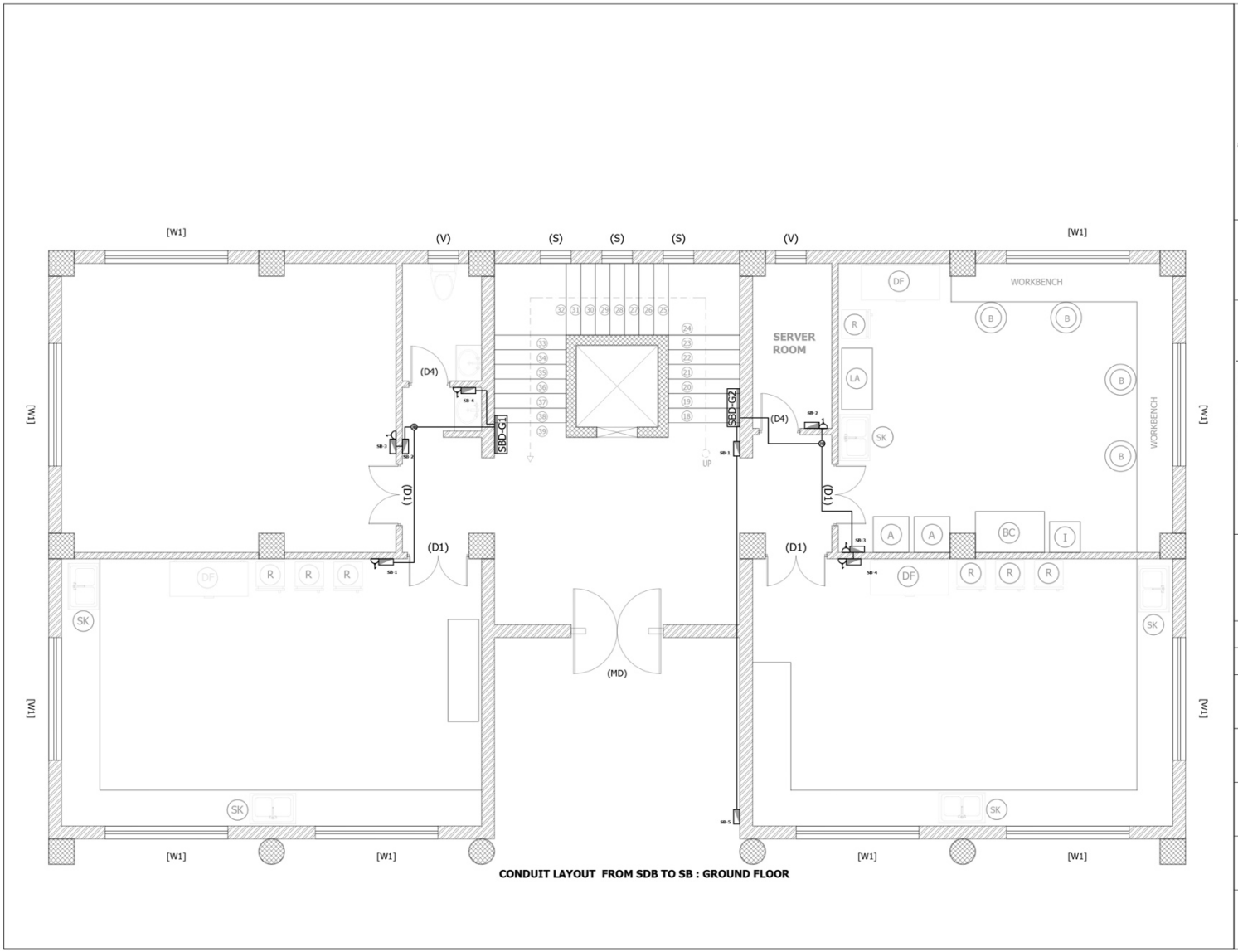
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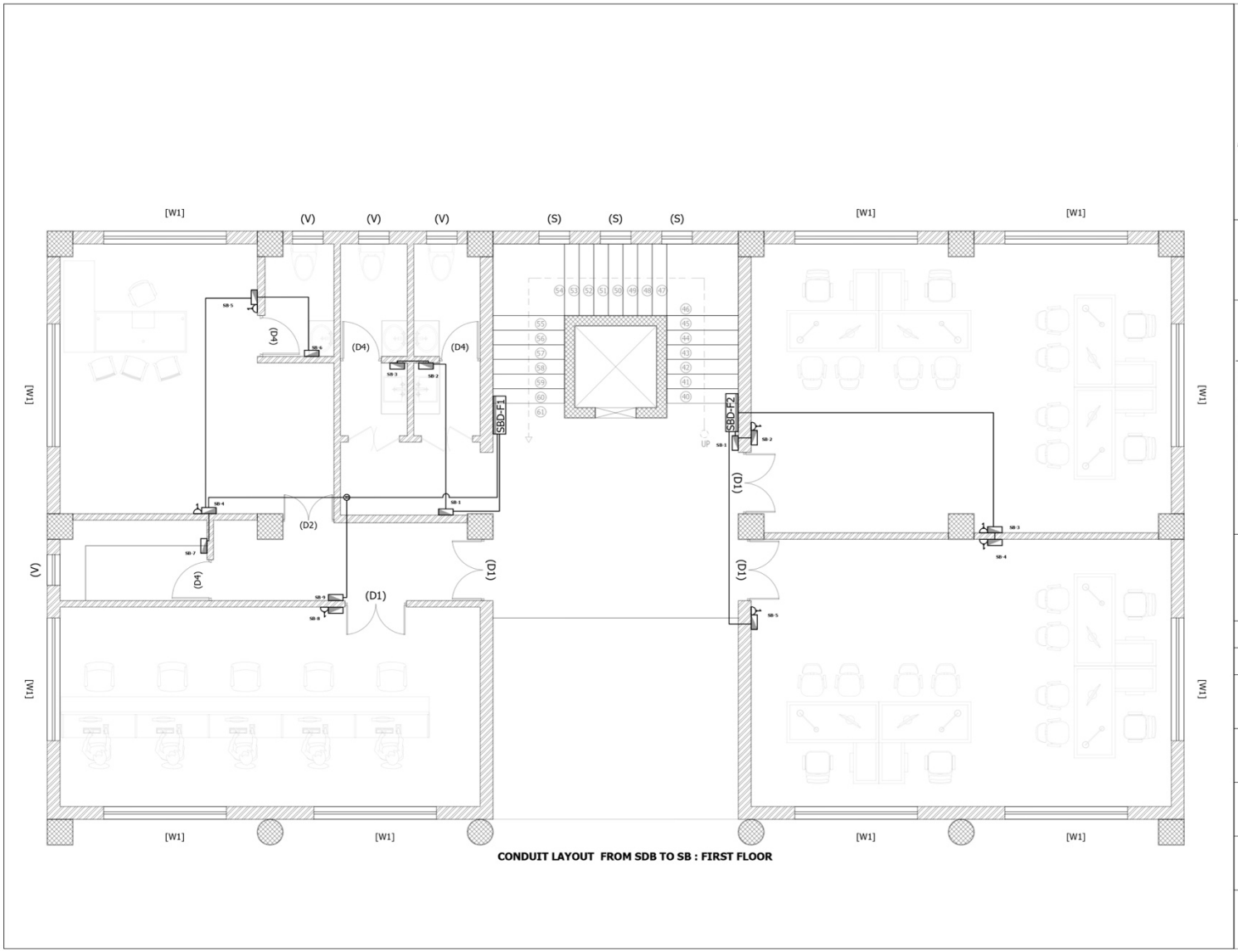
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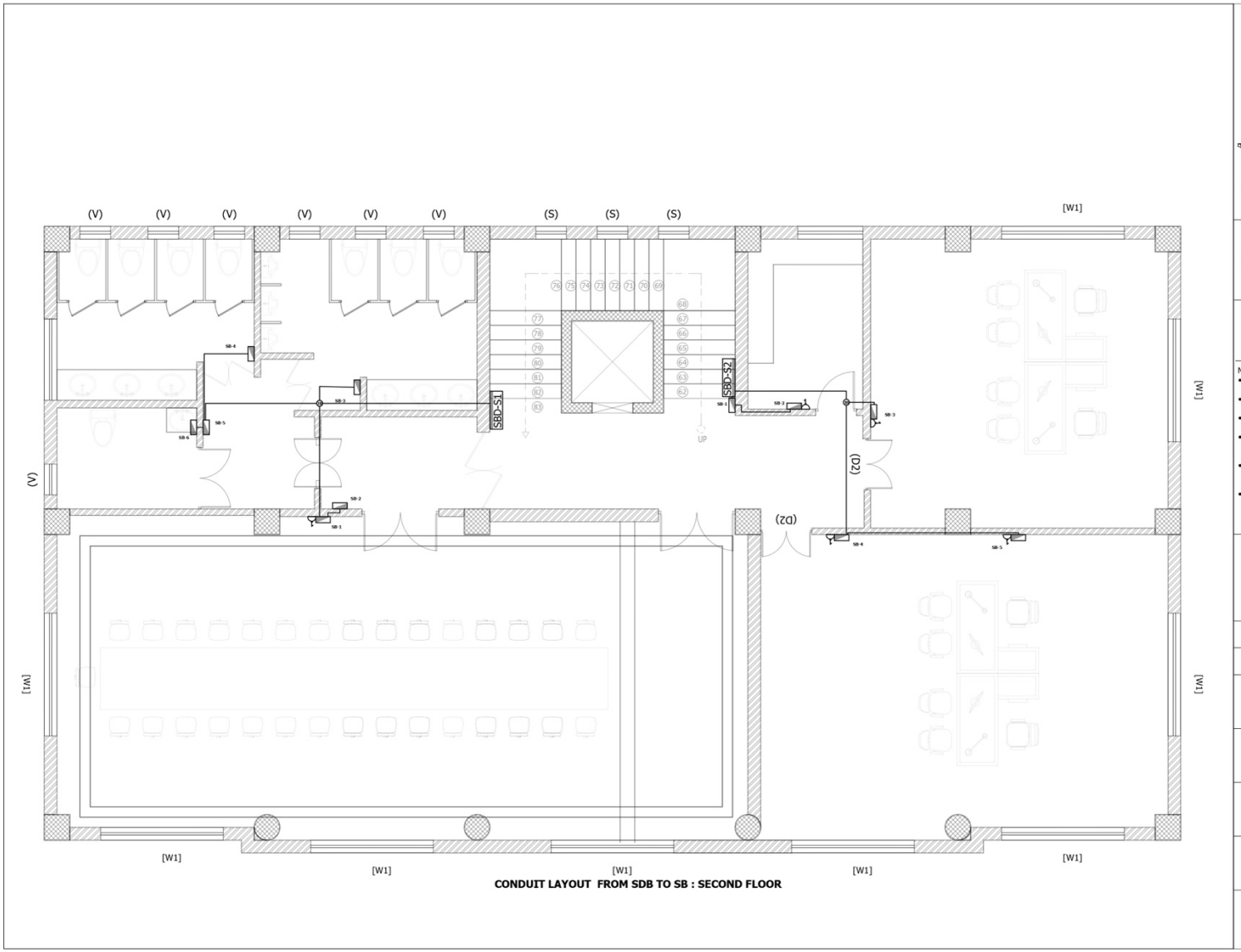
GANESH PRASAD CHAMLAGAI
(INTERIM HEAD)

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REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING
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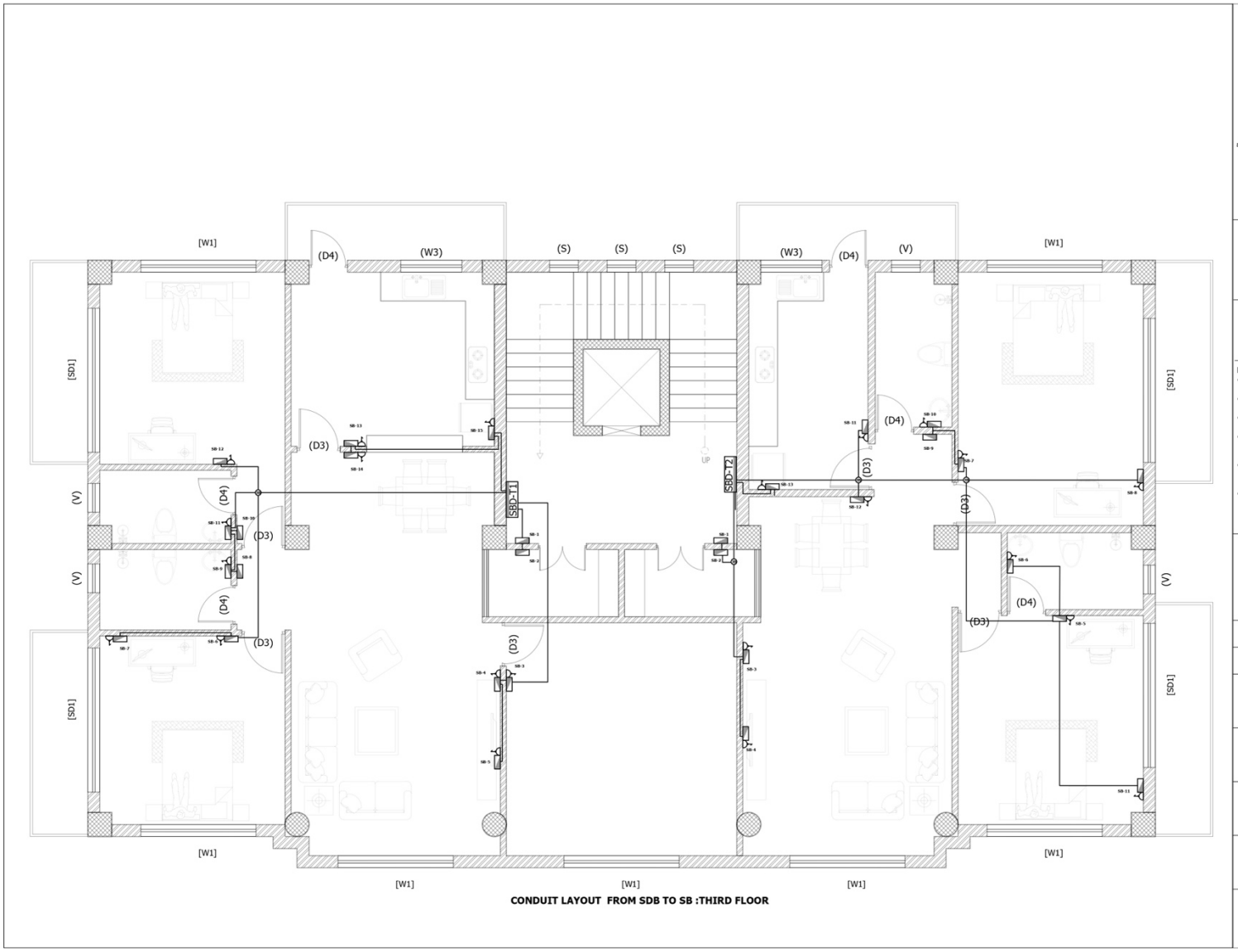
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APPROVED BY:
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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CONDUIT LAYOUT FROM SDB TO SB :THIRD FLOOR



ཐབས་རྒྱུན་མཁས་ཚོགས་བོངྟོ་དཔེལ་ལུང་སྡེ་དགུས་ཡིག་ཚང་།།
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REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

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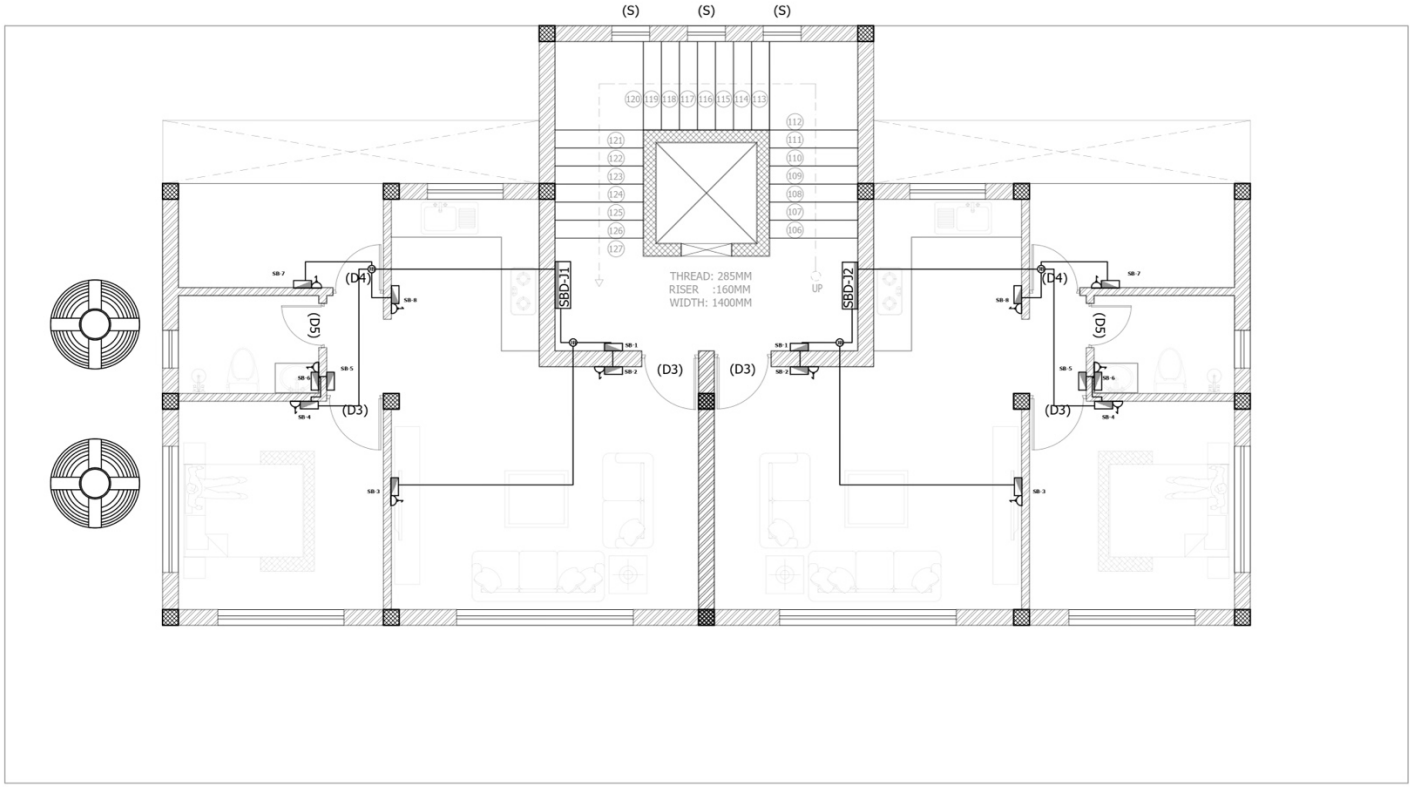
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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CONDUIT LAYOUT FROM SDB TO SB : JAMTHOG



REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

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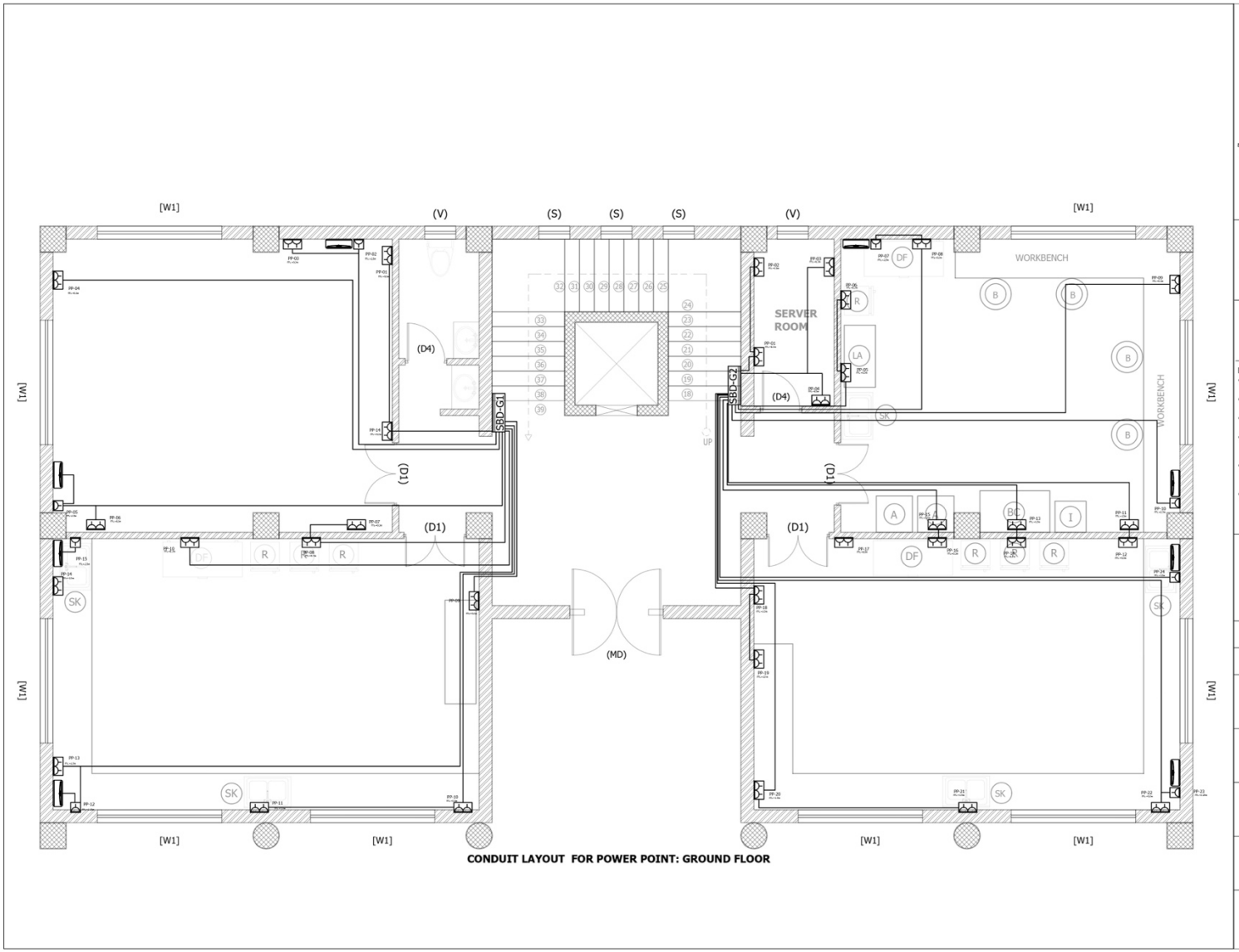
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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DESIGNATION (BFDA)

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Model



CONDUIT LAYOUT FOR POWER POINT: GROUND FLOOR



ཁྲིམས་རྒྱུན་མཐའ་རྟེན་འཚེལ་ལུང་སྡུག་པོག་ཚོང་།།
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REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

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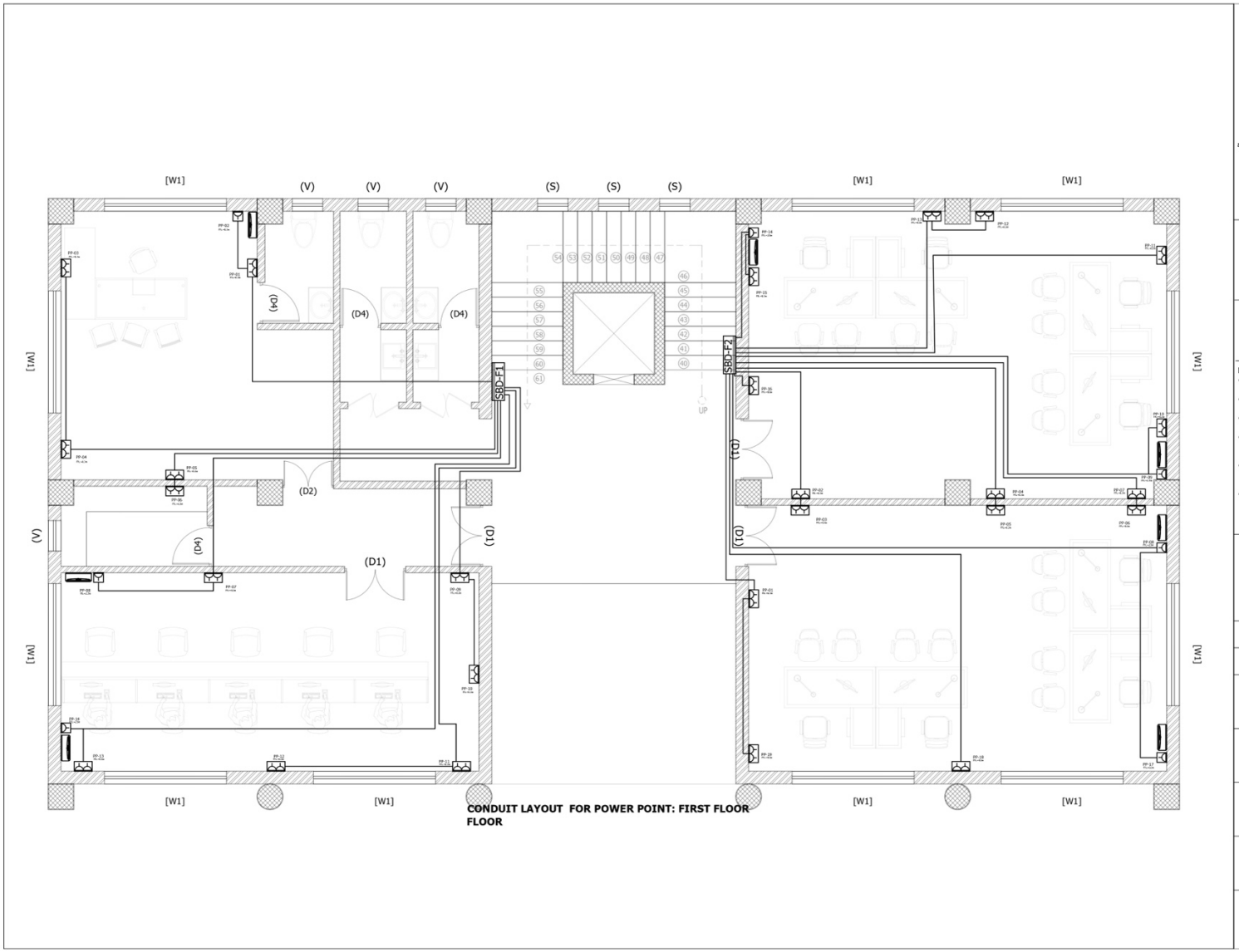
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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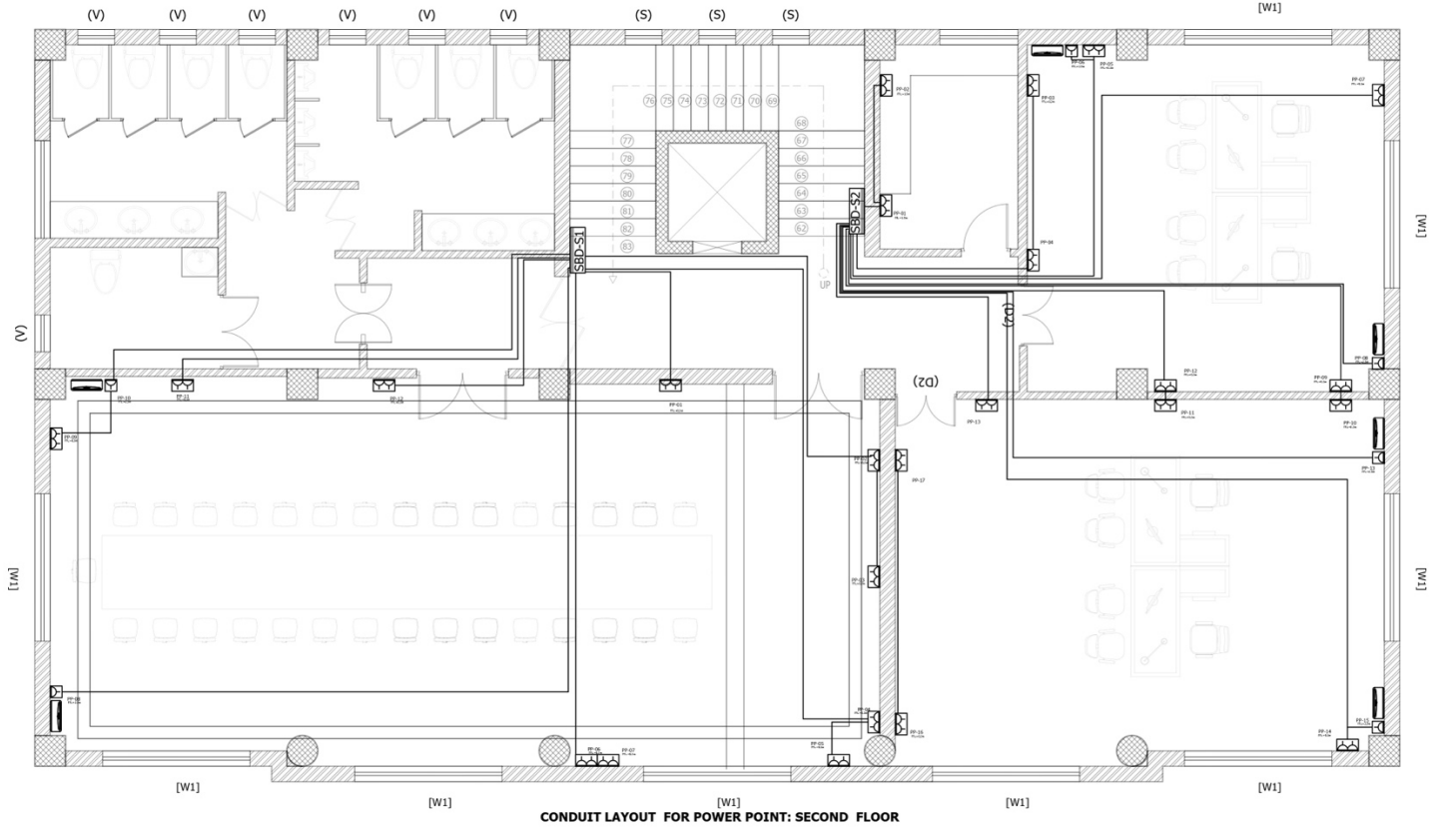
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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CONDUIT LAYOUT FOR POWER POINT: SECOND FLOOR

གཞི་རྒྱན་མགོ་ཚོན་འཛེལ་ཡུལ་དྲུག་ཡིག་ཚང་།།
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REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

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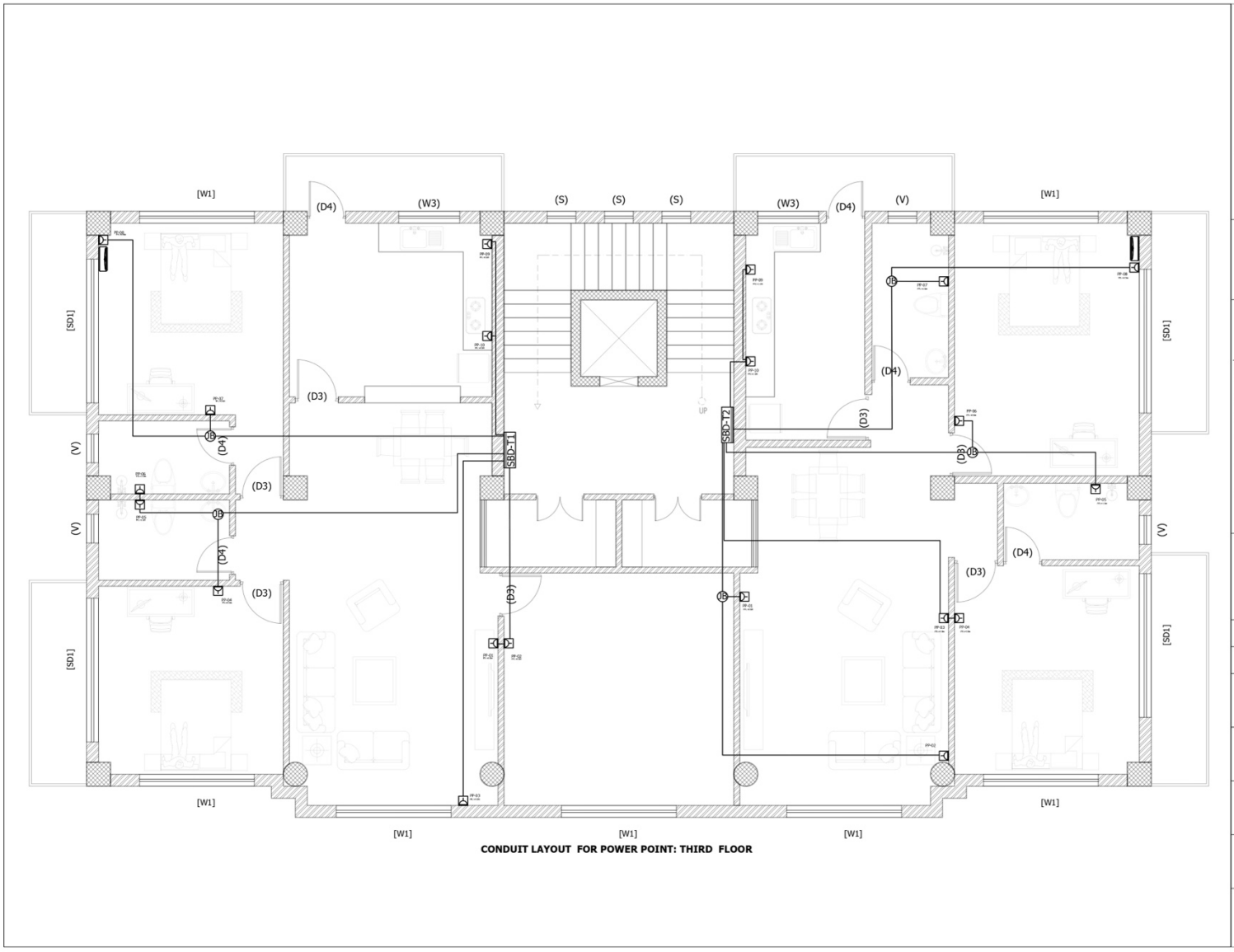
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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CONDUIT LAYOUT FOR POWER POINT: THIRD FLOOR



REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

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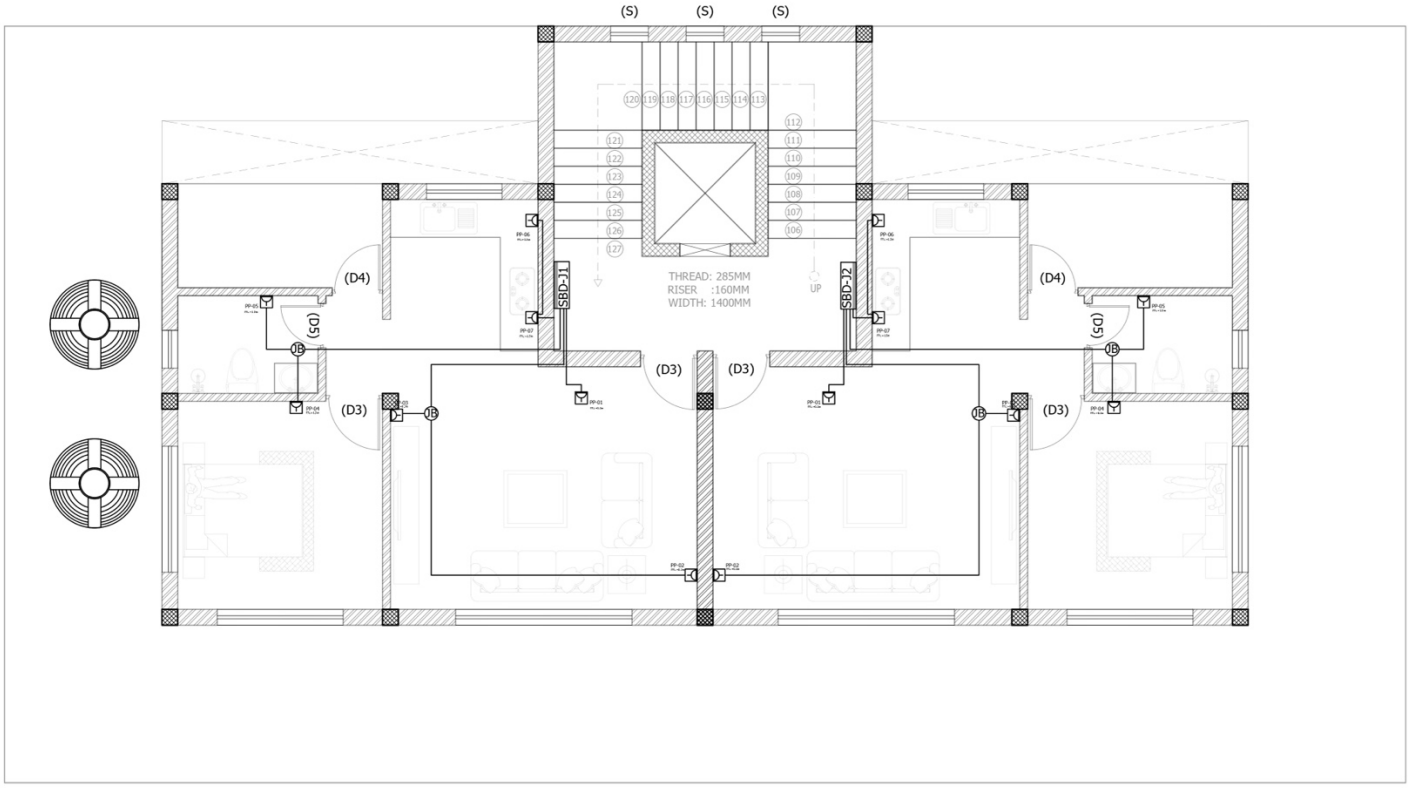
GANESH PRASAD CHAMLAGAI
(INTERIM HEAD)

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CONDUIT LAYOUT FOR POWER POINT: JAMTHOG

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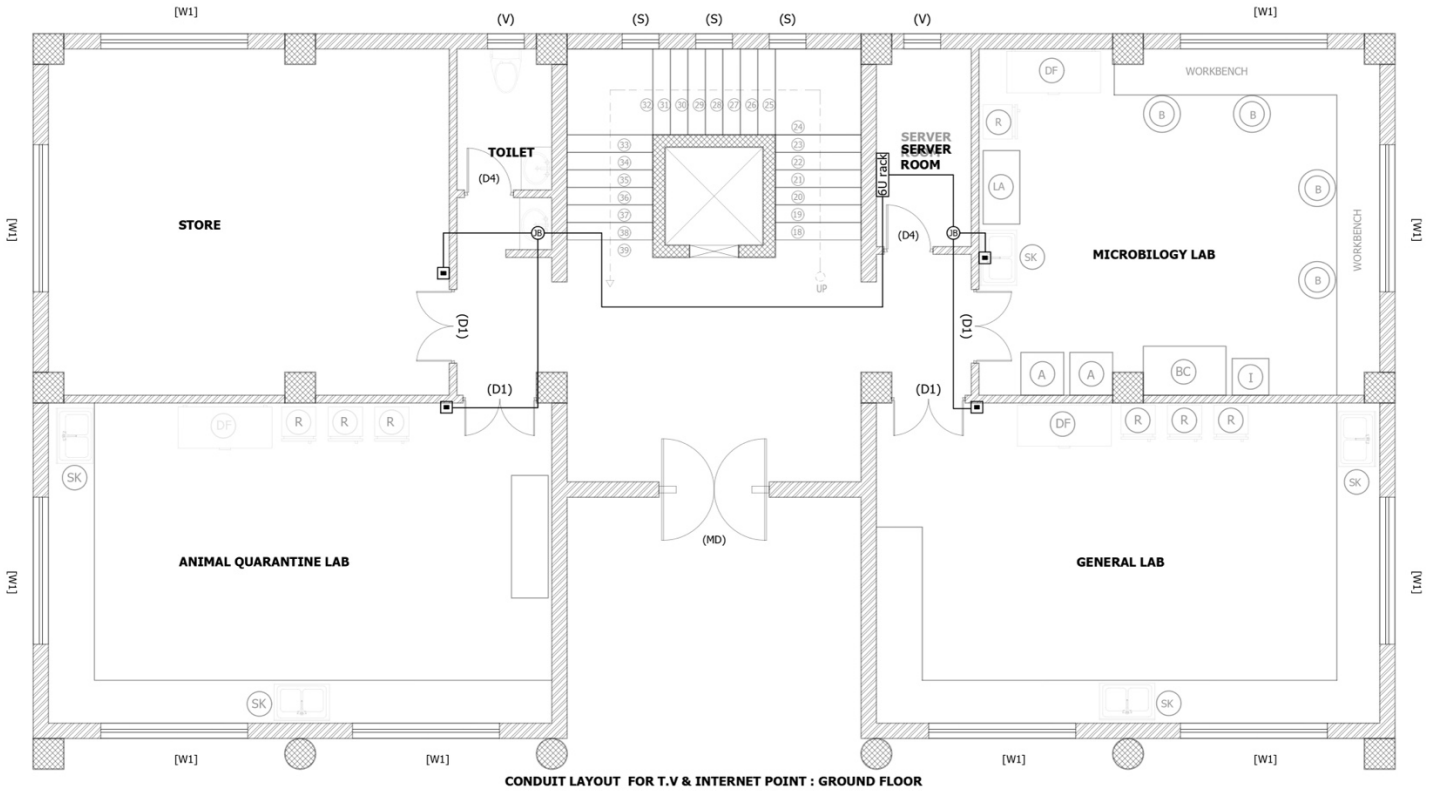
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

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CONDUIT LAYOUT FOR T.V & INTERNET POINT : GROUND FLOOR

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SCALE: NTS

28/04/2026

DESIGN & DRAWN BY:

TSHERING YANGZOM (ENGINEER)

CHECKED BY:

GANESH PRASAD CHAMLAGAI (ARCHITECT)

APPROVED BY:

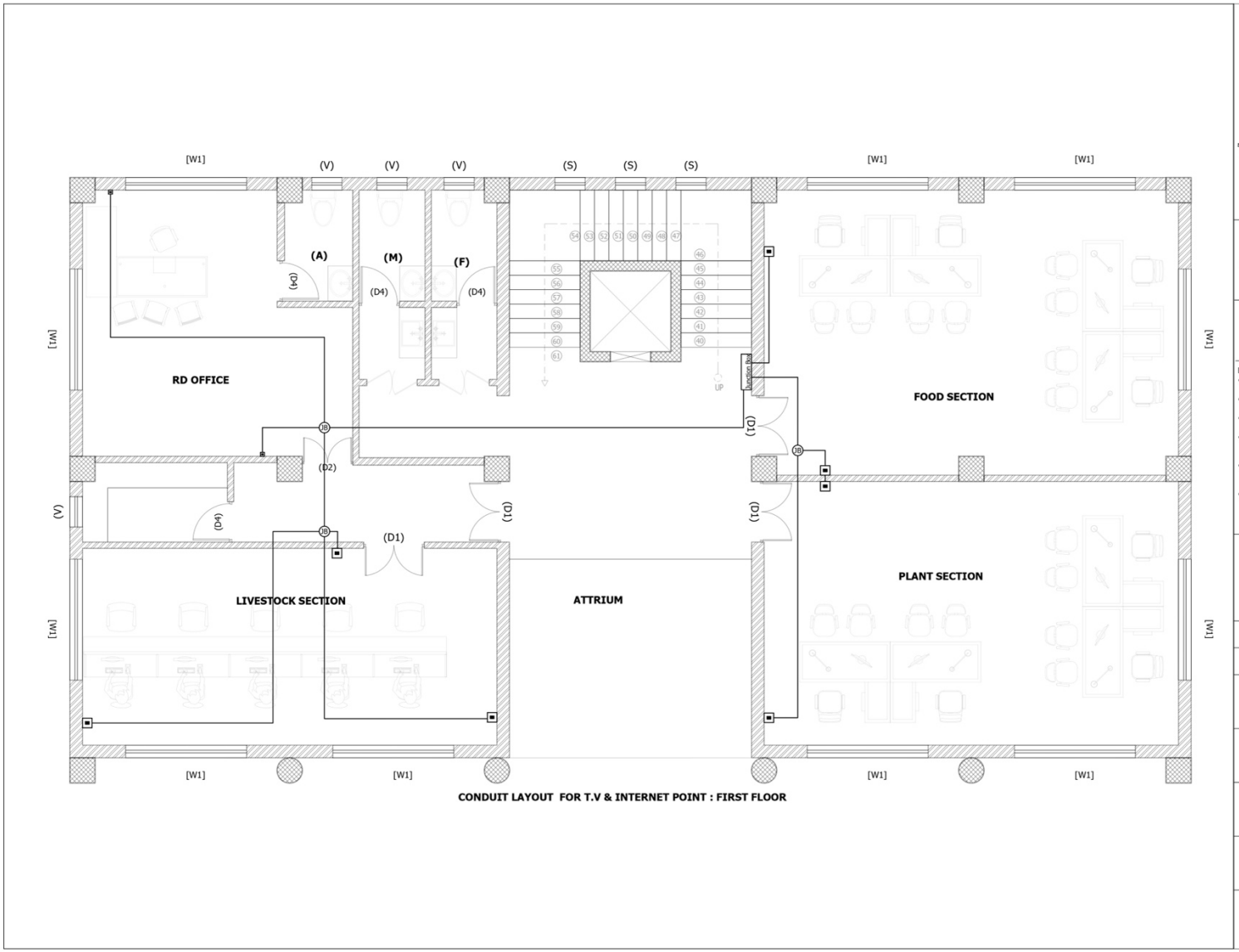
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Model



CONDUIT LAYOUT FOR T.V & INTERNET POINT : FIRST FLOOR

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

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PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

AGENCY

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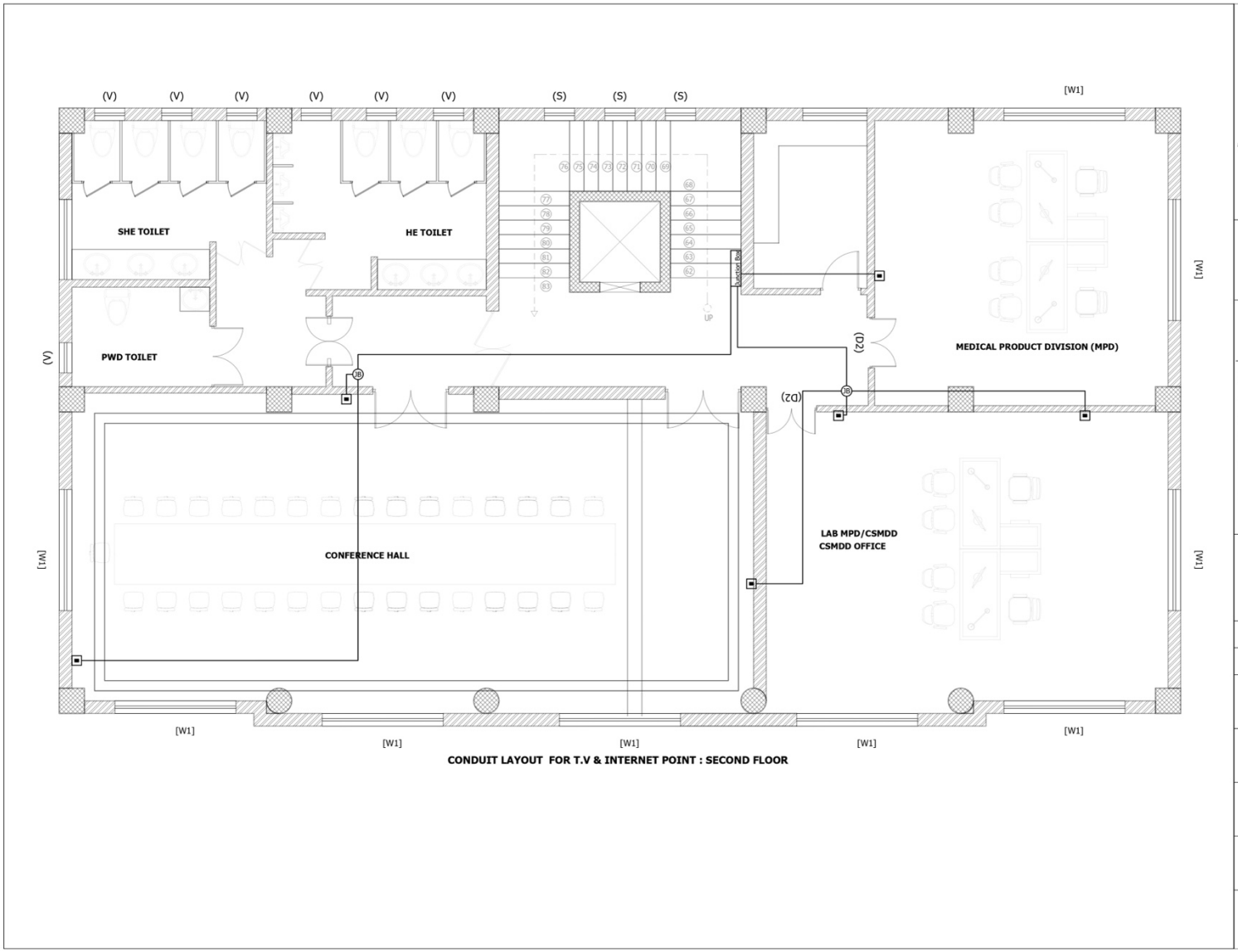
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CONDUIT LAYOUT FOR T.V & INTERNET POINT : SECOND FLOOR

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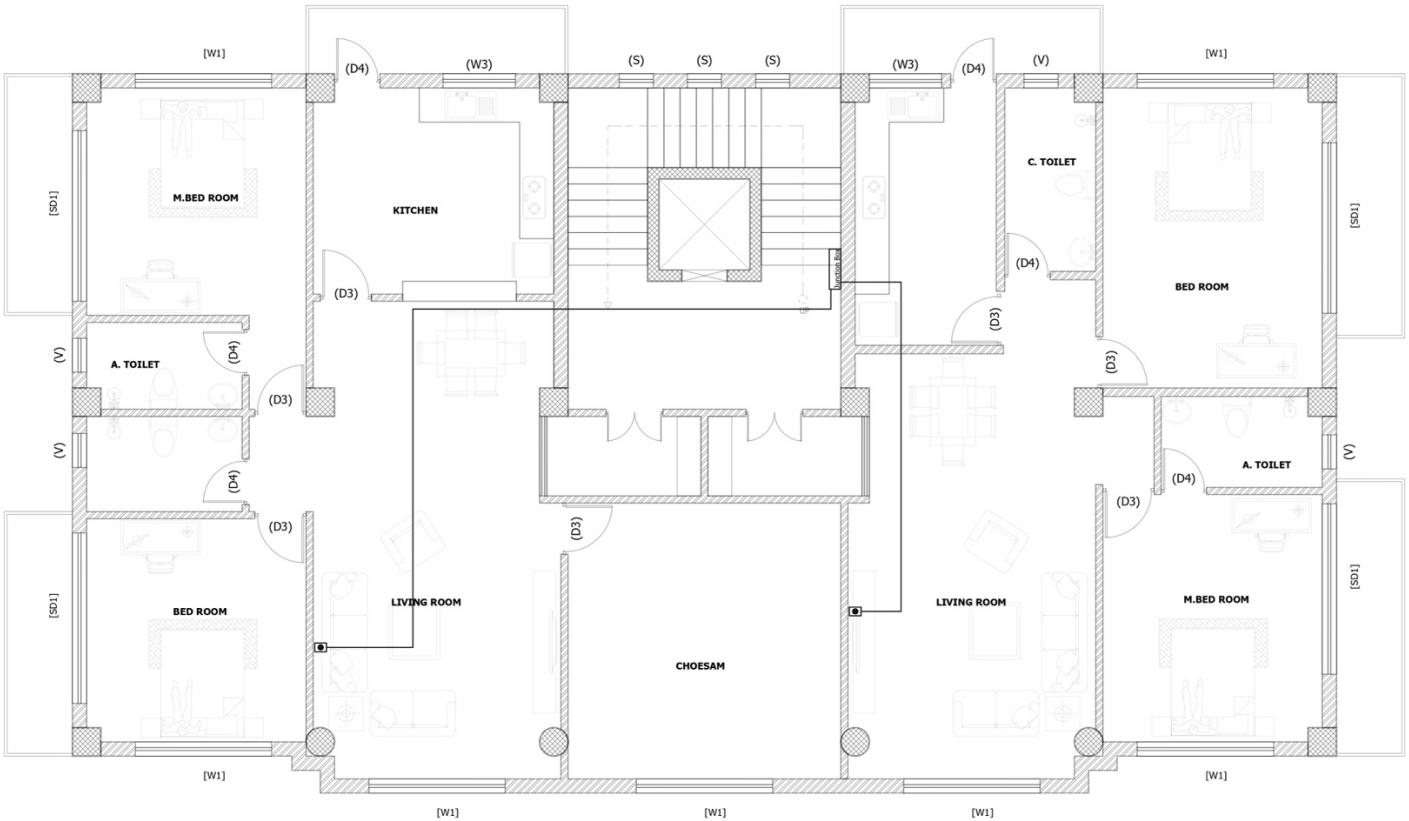
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CONDUIT LAYOUT FOR T.V & INTERNET POINT : THIRD FLOOR

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ཕུན་ཚོགས་གླིང་།

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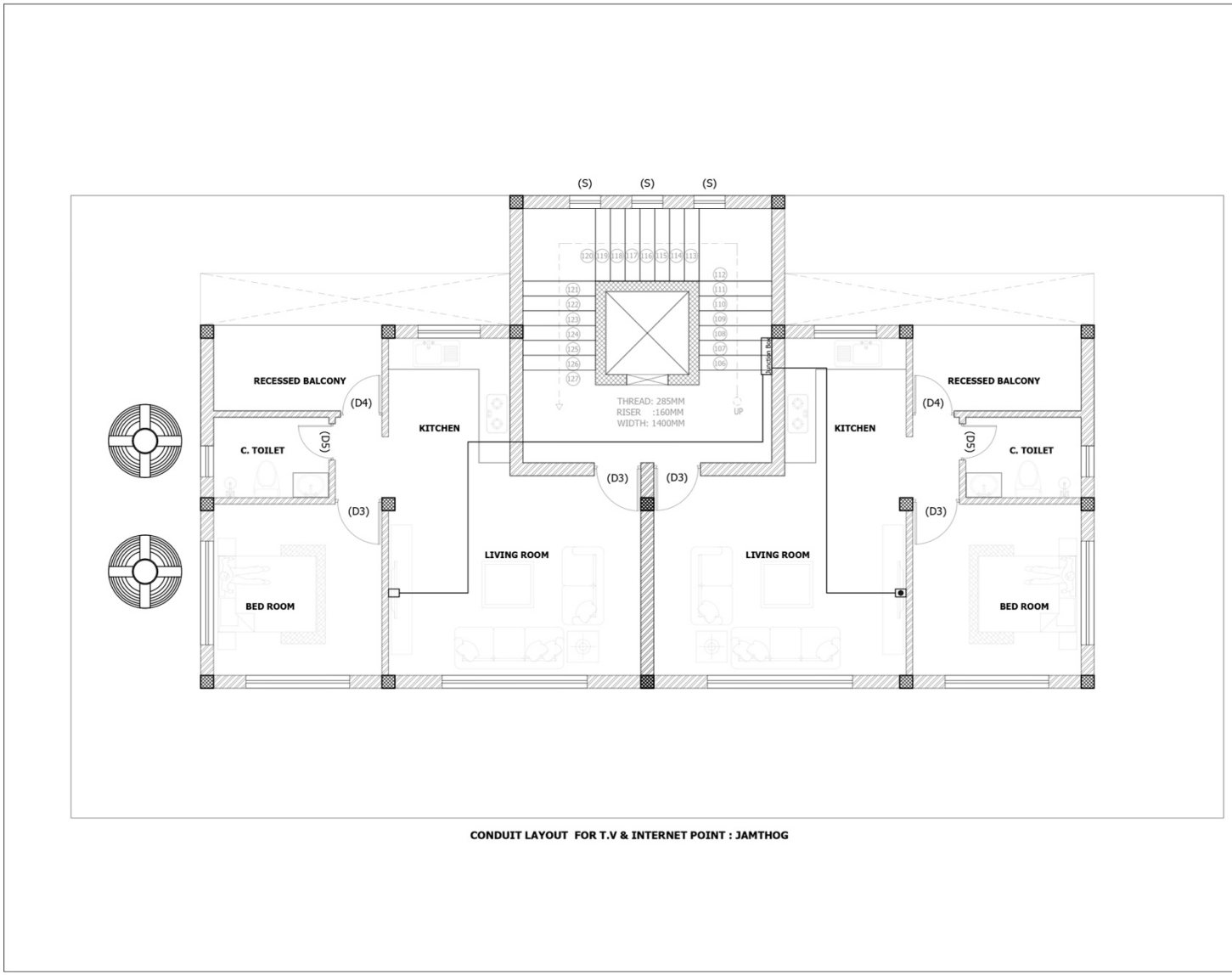
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CONDUIT LAYOUT FOR T.V & INTERNET POINT : JAMTHOG

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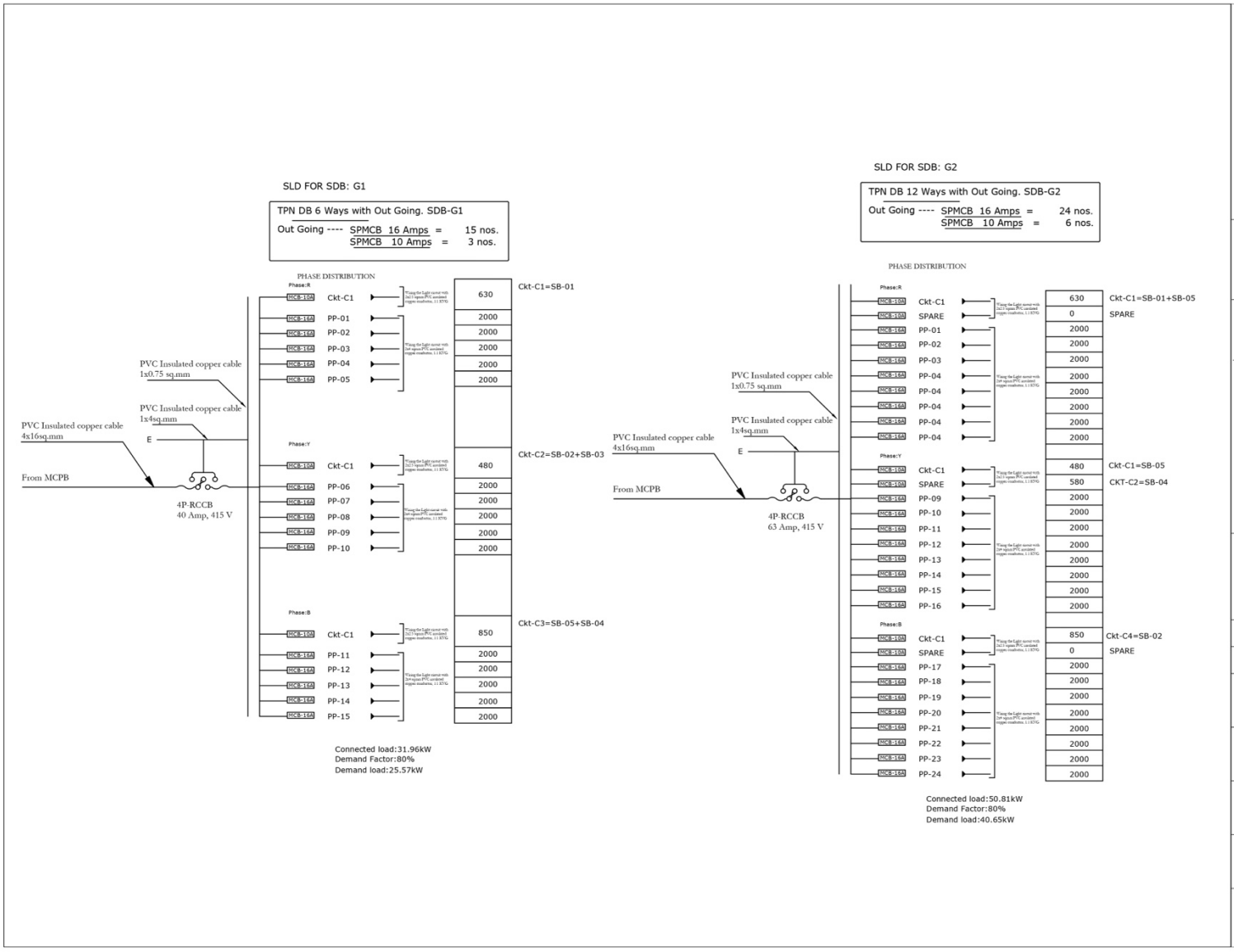
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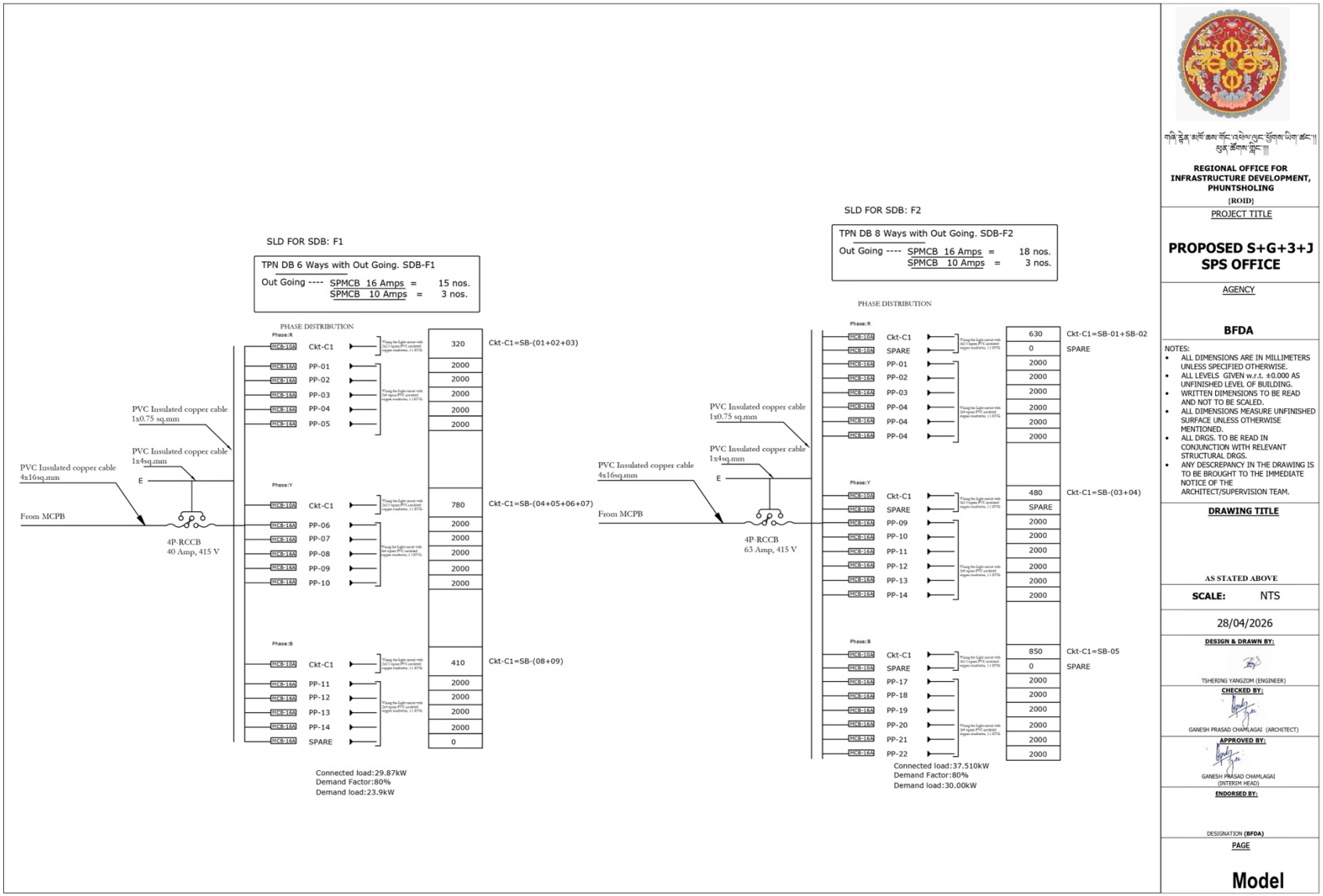
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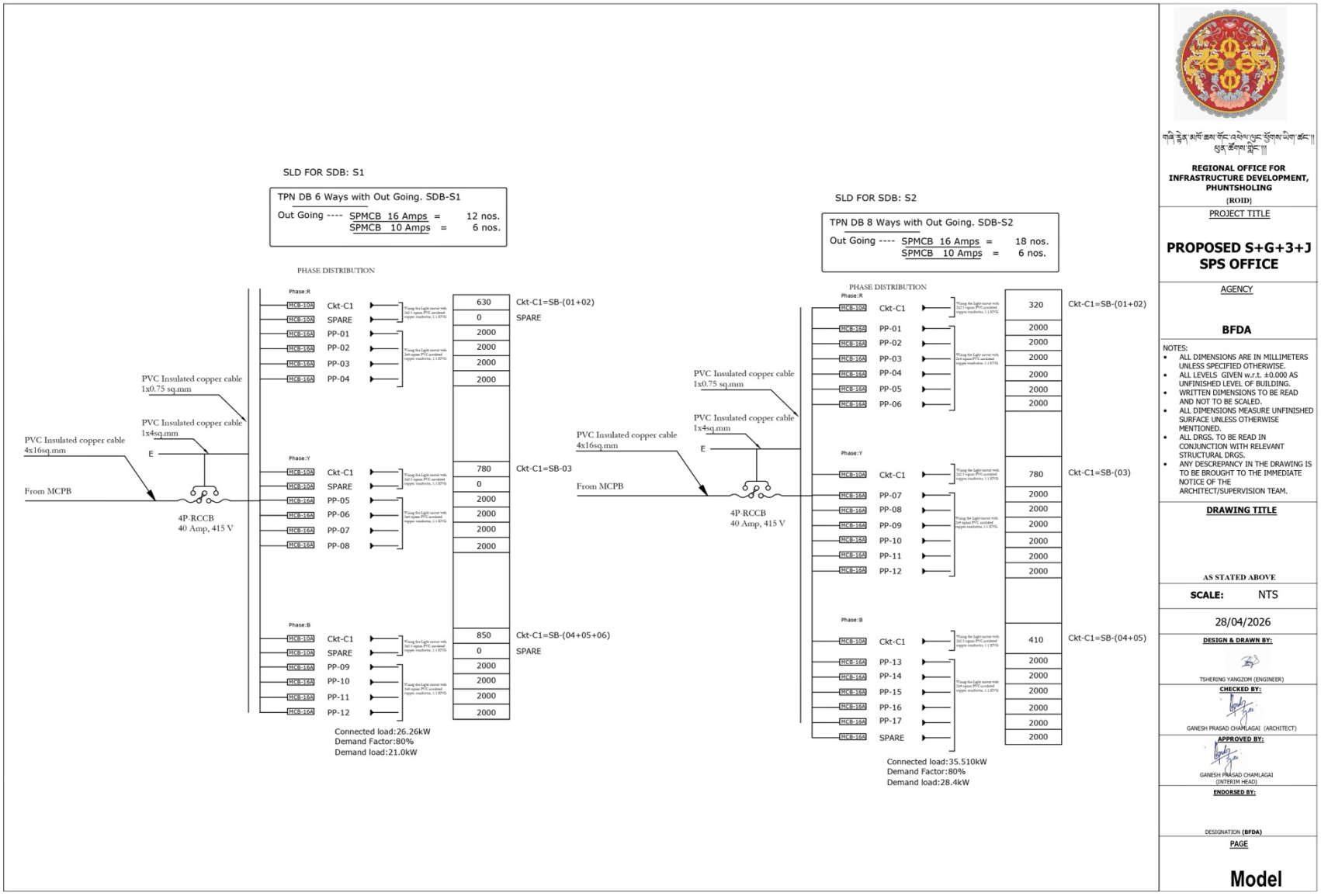
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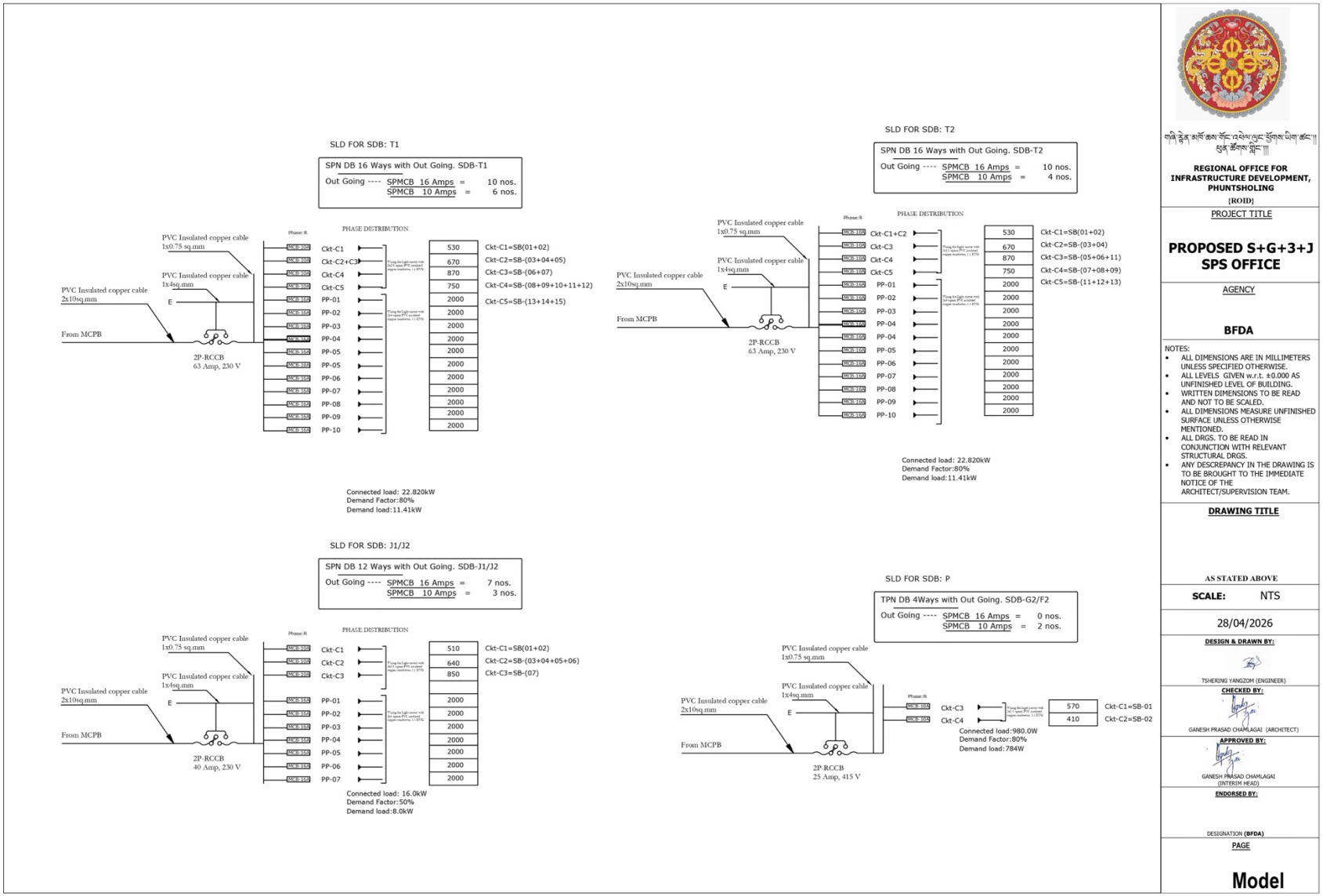
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PAGE

Model


SLD FOR SDB: F1
TPN DB 6 Ways with Out Going. SDB-F1
Out Going ---- SPMCB 16 Amps = 15 nos.
SPMCB 10 Amps = 3 nos.
PHASE DISTRIBUTION
Phase:R
MCB-10A Ckt-C1 320 Ckt-C1=SB-(01+02+03)
MCB-16A PP-01 2000
MCB-16A PP-02 2000
MCB-16A PP-03 2000
MCB-16A PP-04 2000
MCB-16A PP-05 2000
Phase:Y
MCB-10A Ckt-C1 780 Ckt-C1=SB-(04+05+06+07)
MCB-16A PP-06 2000
MCB-16A PP-07 2000
MCB-16A PP-08 2000
MCB-16A PP-09 2000
MCB-16A PP-10 2000
Phase:B
MCB-10A Ckt-C1 410 Ckt-C1=SB-(08+09)
MCB-16A PP-11 2000
MCB-16A PP-12 2000
MCB-16A PP-13 2000
MCB-16A PP-14 2000
MCB-16A SPARE 0
PVC Insulated copper cable 1x0.75 sq.mm
PVC Insulated copper cable 1x4sq.mm
PVC Insulated copper cable 4x16sq.mm
E
From MCPB
4P-RCCB
40 Amp, 415 V
Connected load:29.87kW
Demand Factor:80%
Demand load:23.9kW
SLD FOR SDB: F2
TPN DB 8 Ways with Out Going. SDB-F2
Out Going ---- SPMCB 16 Amps = 18 nos.
SPMCB 10 Amps = 3 nos.
PHASE DISTRIBUTION
Phase:R
MCB-10A Ckt-C1 630 Ckt-C1=SB-01+SB-02
MCB-10A SPARE 0 SPARE
MCB-16A PP-01 2000
MCB-16A PP-02 2000
MCB-16A PP-03 2000
MCB-16A PP-04 2000
MCB-16A PP-04 2000
MCB-16A PP-04 2000
Phase:Y
MCB-10A Ckt-C1 480 Ckt-C1=SB-(03+04)
MCB-10A SPARE SPARE
MCB-16A PP-09 2000
MCB-16A PP-10 2000
MCB-16A PP-11 2000
MCB-16A PP-12 2000
MCB-16A PP-13 2000
MCB-16A PP-14 2000
Phase:B
MCB-10A Ckt-C1 850 Ckt-C1=SB-05
MCB-10A SPARE 0 SPARE
MCB-16A PP-17 2000
MCB-16A PP-18 2000
MCB-16A PP-19 2000
MCB-16A PP-20 2000
MCB-16A PP-21 2000
MCB-16A PP-22 2000
PVC Insulated copper cable 1x0.75 sq.mm
PVC Insulated copper cable 1x4sq.mm
PVC Insulated copper cable 4x16sq.mm
E
From MCPB
4P-RCCB
63 Amp, 415 V
Connected load:37.510kW
Demand Factor:80%
Demand load:30.00kW
REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING
{ROID}
PROJECT TITLE
PROPOSED S+G+3+J SPS OFFICE
AGENCY
BFDA
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28/04/2026
DESIGN & DRAWN BY:
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CHECKED BY:
GANESH PRASAD CHAMLAGAI (ARCHITECT)
APPROVED BY:
GANESH PRASAD CHAMLAGAI (INTERIM HEAD)
ENDORSED BY:
DESIGNATION (BFDA)
PAGE
Model


SLD FOR SDB: S1
TPN DB 6 Ways with Out Going. SDB-S1
Out Going ---- SPMCB 16 Amps = 12 nos.
SPMCB 10 Amps = 6 nos.
PHASE DISTRIBUTION
PVC Insulated copper cable 1x0.75 sq.mm
PVC Insulated copper cable 1x4sq.mm
PVC Insulated copper cable 4x16sq.mm
From MCPB
E
4P-RCCB 40 Amp, 415 V
Phase:R
MCB-10A Ckt-C1 630 Ckt-C1=SB-(01+02)
MCB-10A SPARE 0 SPARE
MCB-16A PP-01 2000
MCB-16A PP-02 2000
MCB-16A PP-03 2000
MCB-16A PP-04 2000
Phase:Y
MCB-10A Ckt-C1 780 Ckt-C1=SB-03
MCB-10A SPARE 0
MCB-16A PP-05 2000
MCB-16A PP-06 2000
MCB-16A PP-07 2000
MCB-16A PP-08 2000
Phase:B
MCB-10A Ckt-C1 850 Ckt-C1=SB-(04+05+06)
MCB-10A SPARE 0 SPARE
MCB-16A PP-09 2000
MCB-16A PP-10 2000
MCB-16A PP-11 2000
MCB-16A PP-12 2000
Connected load:26.26kW
Demand Factor:80%
Demand load:21.0kW
SLD FOR SDB: S2
TPN DB 8 Ways with Out Going. SDB-S2
Out Going ---- SPMCB 16 Amps = 18 nos.
SPMCB 10 Amps = 6 nos.
PHASE DISTRIBUTION
PVC Insulated copper cable 1x0.75 sq.mm
PVC Insulated copper cable 1x4sq.mm
PVC Insulated copper cable 4x16sq.mm
From MCPB
E
4P-RCCB 40 Amp, 415 V
Phase:R
MCB-10A Ckt-C1 320 Ckt-C1=SB-(01+02)
MCB-16A PP-01 2000
MCB-16A PP-02 2000
MCB-16A PP-03 2000
MCB-16A PP-04 2000
MCB-16A PP-05 2000
MCB-16A PP-06 2000
Phase:Y
MCB-10A Ckt-C1 780 Ckt-C1=SB-(03)
MCB-16A PP-07 2000
MCB-16A PP-08 2000
MCB-16A PP-09 2000
MCB-16A PP-10 2000
MCB-16A PP-11 2000
MCB-16A PP-12 2000
Phase:B
MCB-10A Ckt-C1 410 Ckt-C1=SB-(04+05)
MCB-16A PP-13 2000
MCB-16A PP-14 2000
MCB-16A PP-15 2000
MCB-16A PP-16 2000
MCB-16A PP-17 2000
MCB-16A SPARE 2000
Connected load:35.510kW
Demand Factor:80%
Demand load:28.4kW
REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING
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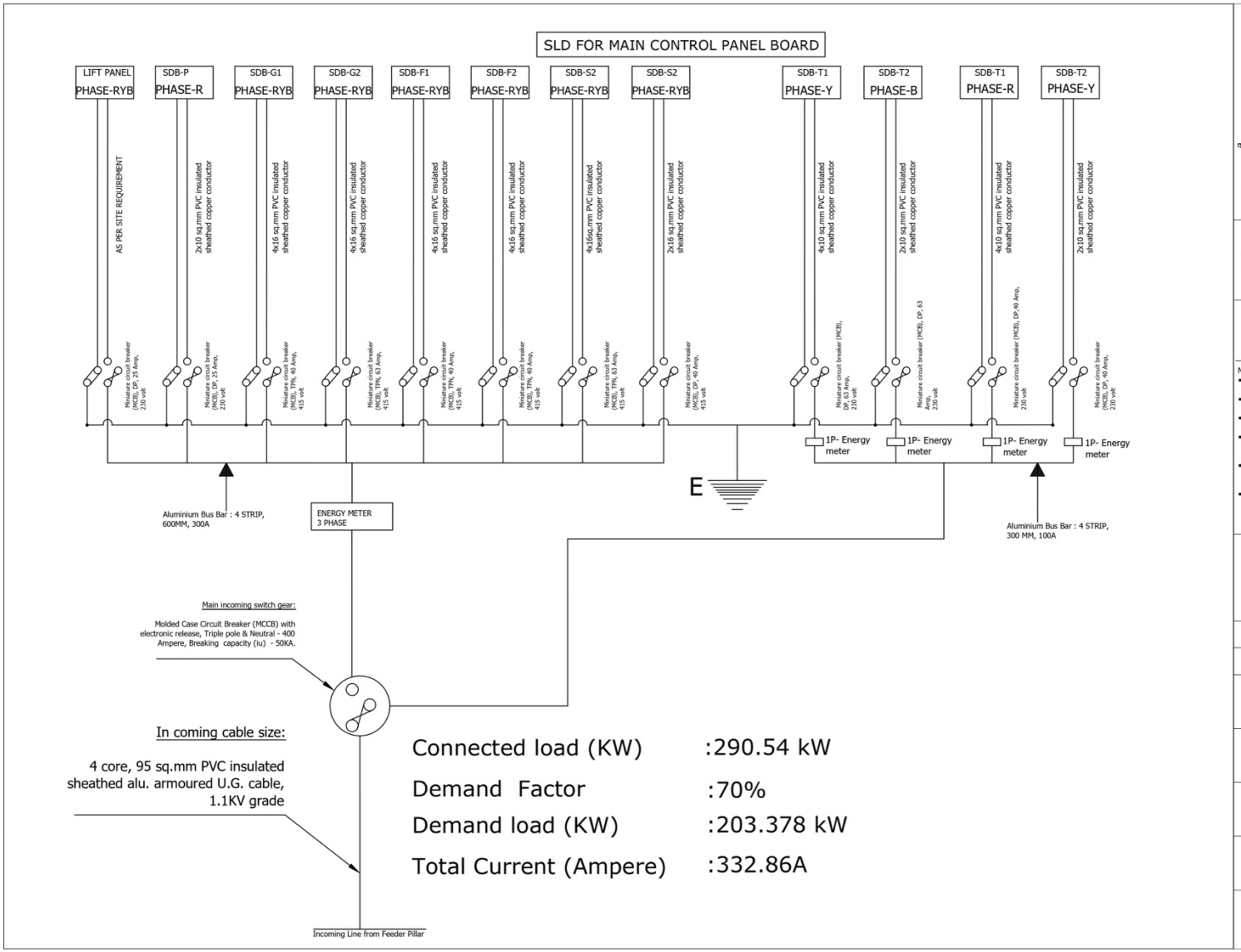
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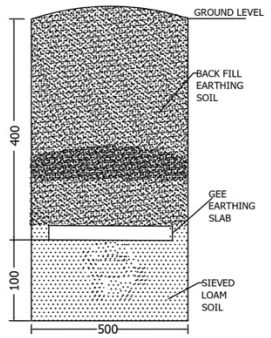
Installation procedure of GEE slabs

Procedure:

(1) Dig a trench (70-75 cm deep and 50 cm wide)
(2) If the trench is very rocky or sandy, spread a layer of salt (about 50 kgs) at the bottom. This is to lower the soil resistivity. However, if the trench is not rocky or sandy, no salt is required.
(3) Spread 7-8 inches of good soft soil (preferably sieved and do not use rocky and sandy soil) at the bottom of trench.
(4) Soak/drench the GEE slabs in water and lay the GEE slabs
(5) Connect the GEE slabs end to end and bolt securely (in addition, it is recommended to weld all joints permanently)
(6) Cover all joints and bare conductors with cement mortar (after connecting securely the earthing conductor from Distribution Box).
(7) Now cover GEE slabs with 7-8 inches of good soft soil and tamp down gently with feet.
(8) Complete the installation by backfilling the rest of the trench with the excavated soil.
(9) Add water to expedite soil compaction (preferably the next day to avoid damage to the fresh cement mortar).

Notes:

(i) The earthing resistance will continue to drop as the soil slowly compacts firmly around the GEE slabs (this may take a few weeks).
(ii) The number of GEE slabs required per earthing installation will depend on the site soil conditions but generally 8 numbers has been found to be adequate for one house earthing installation.
(ij) SEPARATE EARTHING SHOULD BE GIVEN FOR THE LIGHTNING PROTECTION

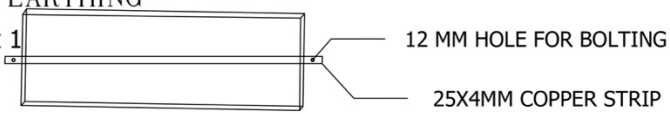


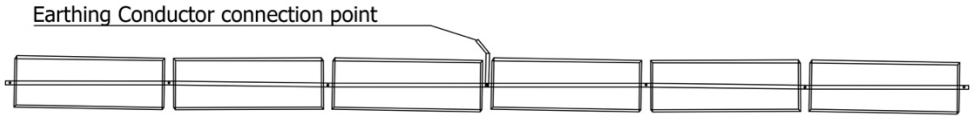


Connection details

DETAILS OF GEE SLAB EARTHING

Length x Breadth = 5 ft x 1 ft (i.e. including 6 inches GI flat protrusion from each end)





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DESIGN & DRAWN BY:
TSHERING YANGZOM (ENGINEER)

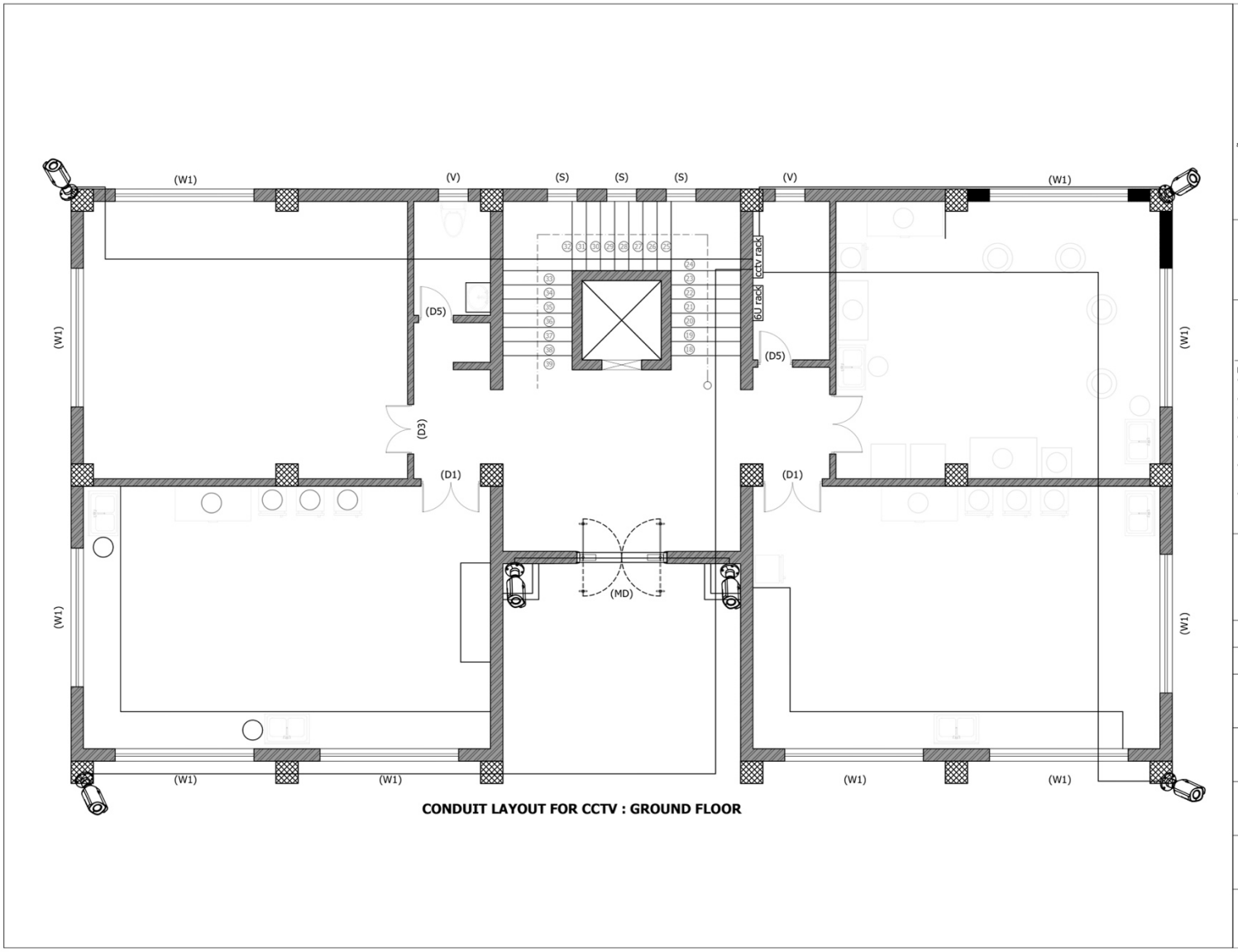
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GANESH PRASAD CHAMLAGAI (INTERIM HEAD)

ENDORSED BY:
DESIGNATION **(BFDA)**

PAGE

Model



CONDUIT LAYOUT FOR CCTV : GROUND FLOOR

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING

[ROID]

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

AGENCY

BFDA

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE.
- ALL LEVELS GIVEN w.r.t. ±0.000 AS UNFINISHED LEVEL OF BUILDING.
- WRITTEN DIMENSIONS TO BE READ AND NOT TO BE SCALED.
- ALL DIMENSIONS MEASURE UNFINISHED SURFACE UNLESS OTHERWISE MENTIONED.
- ALL DRGS. TO BE READ IN CONJUNCTION WITH RELEVANT STRUCTURAL DRGS.
- ANY DESCREPANCY IN THE DRAWING IS TO BE BROUGHT TO THE IMMEDIATE NOTICE OF THE ARCHITECT/SUPERVISION TEAM.

DRAWING TITLE

AS STATED ABOVE

SCALE: NTS

28/04/2026

DESIGN & DRAWN BY:

TSHERING YANGZOM (ENGINEER)

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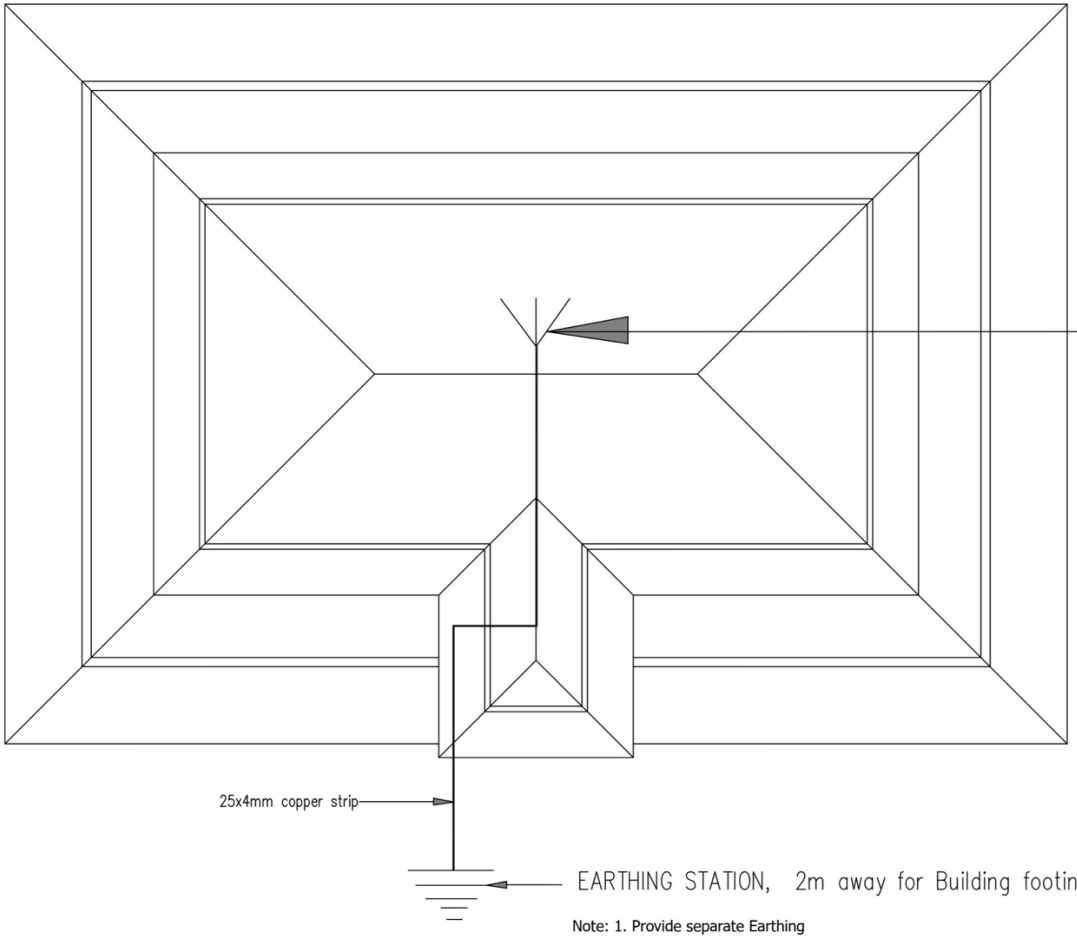
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Model

LIGHTING ARRESTER LAYOUT :JAMTHOG



Note: 1. Provide separate Earthing
2. Do not connect to internal wiring Earthing station

REGIONAL OFFICE FOR INFRASTRUCTURE DEVELOPMENT, PHUNTSHOLING
(ROID)

PROJECT TITLE

PROPOSED S+G+3+J SPS OFFICE

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DESIGNATION (BFDA)

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Section 4: ENVIRONMENT & SOCIAL MANAGEMENT PLAN FORMAT TO MITIGATE THE RISK (ESMP)

Environmental and social risk/impact	Mitigation measure (Bidders to provide)
Excess Muck from excavation works: ● Foundation excavation will generate excess muck. Strict city regulations ban unauthorized dumping, creating a logistical and compliance risk if proper disposal sites are not secured. ● Unauthorized or improper disposal of excess excavated soil (muck). Because this is a high-density urban area, strict regulations prohibit illegal dumping, making compliant waste management a critical challenge.	
Vehicular traffic: ● The surge in project vehicles, combined with the stockpiling of construction materials on city roads, will severely disrupt urban traffic flow. This creates both logistical bottlenecks and heightened safety risks for commuters, motorists, local residents, and project workers alike.	
Air Pollution: ● Air quality can be adversely affected by vehicle exhaust emissions and combustion of fuels. ● Dust generation from construction sites and material stockpiles are a nuisance in the environment and can be a health hazard. ● Noise and vibration may have an impact on people, property, neighborhood, community, and the natural environment.	

Waste Generation: ● Waste (solid & liquid including chemical) generated from civil work/ renovation. ● Waste generated from the labor campsite.	
Workers' Health and Safety: ● Occupational Health & Safety (OHS)-Without adequate OHS measures, workers may be at risk of accident ● Accidents/incidents-Lack of first aid facilities and health care facilities in the immediate vicinity will aggravate the health conditions of the victims ● Water and sanitation facilities- Lack of water sanitation facilities at project sites cause inconvenience to the workers and affect their personal hygiene. ● Training-Lack of awareness and basic knowledge in health care among the construction workforce make them susceptible to potential diseases. ● Risk of injuries to the visitors at the site when they approach close to mobile machineries and vehicles.	
Grievance: ● Grievance by the workers and workplace concerns and inaccessibility to internal grievance redress mechanism by the labourers may lead to discontentment among the workers.	
Labor and Working Conditions: ● Associated risks such as sexual exploitation and abuse/sexual harassment (SEA/SH), labor influx, and unethical labor practices.	
Lack of compliance with the agreement signed with Thromde Office Phuentsholing may result in the penalties	

All activities- Fire Safety, Emergency Procedures sites cause inconvenience to the workers and affect their personal hygiene. ● Training-Lack of awareness and basic knowledge in health care among the construction workforce make them susceptible to potential diseases. ● Risk of injuries to the visitors at the site when they approach close to mobile machineries and vehicles.	

PART 3 – Conditions of Contract and Contract Forms

Section VIII - General Conditions of Contract

These General Conditions of Contract (GCC), read in conjunction with the Particular Conditions of Contract (PCC) and other documents listed therein, should be a complete document expressing fairly the rights and obligations of both parties.

These General Conditions of Contract have been developed on the basis of considerable international experience in the drafting and management of contracts, bearing in mind a trend in the construction industry towards simpler, more straightforward language.

The GCC can be used for both smaller admeasurement contracts and lump sum contracts.

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General Conditions of Contract

A. General

1. Definitions

Boldface type is used to identify defined terms.

(a) The **Accepted Contract Amount** means the amount accepted in the Letter of Acceptance for the execution and completion of the Works and the remedying of any defects.

(b) The **Activity Schedule** is a schedule of the activities comprising the construction, installation, testing, and commissioning of the Works in a lump-sum contract. It includes a lump-sum price for each activity, which is used for valuations and for assessing the effects of Variations and Compensation Events (**Not Applicable**).

(c) The **Adjudicator** is the person appointed jointly by the Employer and the Contractor to resolve disputes in the first instance, as provided for in GCC 23.

(d) **Bank** means the financing institution **named in the PCC**.

(e) **Bill of Quantities** means the priced and completed Bill of Quantities forming part of the Bid.

(f) **Compensation Events** are those defined in GCC Clause 42 hereunder.

(g) The **Completion Date** is the date of completion of the Works as certified by the Project Manager, in accordance with GCC Sub-Clause 57.1.

(h) The **Contract** is the Contract between the Employer and the Contractor to execute, complete, and maintain the Works. It consists of the documents listed in GCC Sub-Clause 2.3 below.

(i) The **Contractor** is the party whose Bid to carry out the Works has been accepted by the Employer.

(j) The **Contractor's Bid** is the completed bidding document submitted by the Contractor to the Employer.

(k) The **Contract Price** is the Accepted Contract Amount stated in the Letter of Acceptance and thereafter as adjusted in accordance with the Contract.

(l) **Days** are calendar days; months are calendar months.

(m) **Dayworks** are varied work inputs subject to payment on a time basis for the Contractor's employees and

Equipment, in addition to payments for associated Materials and Plant (**Not Applicable**).

(n) A **Defect** is any part of the Works not completed in accordance with the Contract.

(o) The **Defects Liability Certificate** is the certificate issued by Project Manager upon correction of defects by the Contractor.

(p) The **Defects Liability Period** is the period **named in the PCC** pursuant to GCC Sub-Clause 38.1 and calculated from the Completion Date.

(q) **Drawings** means the drawings of the Works, as included in the Contract, and any additional and modified drawings issued by (or on behalf of) the Employer in accordance with the Contract, include calculations and other information provided or approved by the Project Manager for the execution of the Contract.

(r) The **Employer** is the party who employs the Contractor to carry out the Works, **as specified in the PCC**.

(s) **Equipment** is the Contractor's machinery and vehicles brought temporarily to the Site to construct the Works.

(t) "**In writing"** or "**written"** means hand-written, type-written, printed or electronically made, and resulting in a permanent record;

(u) The **Initial Contract Price** is the Contract Price listed in the Employer's Letter of Acceptance.

(v) The **Intended Completion Date** is the date on which it is intended that the Contractor shall complete the Works. The **Intended Completion Date** is specified in the PCC. The **Intended Completion Date** may be revised only by the Project Manager by issuing an extension of time or an acceleration order.

(w) **Materials** are all supplies, including consumables, used by the Contractor for incorporation in the Works.

(x) **Plant** is any integral part of the Works that shall have a mechanical, electrical, chemical, or biological function.

(y) The **Project Manager** is the person named in the PCC (or any other competent person appointed by the Employer and notified to the Contractor, to act in replacement of the Project Manager) who is responsible for supervising the execution of the Works and administering the Contract.

(z) **PCC** means Particular Conditions of Contract.

(aa) The **Site** is the area defined as such in the PCC.

(bb) **Site Investigation Reports** are those that were included in the bidding document and are factual and interpretative reports about the surface and subsurface conditions at the Site.

(cc) **Specification** means the Specification of the Works included in the Contract and any modification or addition made or approved by the Project Manager.

(dd) The **Start Date** is **given in the PCC**. It is the latest date when the Contractor shall commence execution of the Works. It does not necessarily coincide with any of the Site Possession Dates.

(ee) A **Subcontractor** is a person or corporate body who has a Contract with the Contractor to carry out a part of the work in the Contract, which includes work on the Site.

(ff) **Temporary Works** are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Works.

(gg) A **Variation** is an instruction given by the Project Manager which varies the Works.

(hh) The **Works** are what the Contract requires the Contractor to construct, install, and turn over to the Employer, as defined in the PCC.

(ii) "**Contractor's Personnel**" refers to all personnel whom the Contractor utilizes on the Site or other places where the Works are carried out, including the staff, labor and other employees of each Subcontractor.

(jj) **"Key Personnel"** means the positions (if any) of the Contractor's personnel that are stated in the Specification.

(kk) **"ES"** means Environmental and Social (including Sexual Exploitation and Abuse (SEA), and Sexual Harassment (SH)).

(ll) **"Sexual Exploitation and Abuse" "(SEA)"** means the following:

Sexual Exploitation is defined as any actual or attempted abuse of position of vulnerability, differential power or trust, for sexual purposes, including, but not limited to, profiting monetarily, socially or politically from the sexual exploitation of another;

Sexual Abuse is defined as the actual or threatened physical intrusion of a sexual nature, whether by force or under unequal or coercive conditions.

(mm) **"Sexual Harassment" "(SH)"** is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature by the Contractor's Personnel with other Contractor's or Employer's Personnel; and

(nn) "**Employer's Personnel"** refers to the Project Manager and all other staff, labor and other employees (if any) of the Project Manager and of the Employer engaged in fulfilling the Employer's obligations under the Contract; and any other personnel identified as Employer's Personnel, by a notice from the Employer or the Project Manager to the Contractor.

2. Interpretation

2.1 In interpreting these GCC, words indicating one gender include all genders. Words indicating the singular also include the plural and words indicating the plural also include the singular. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Project Manager shall provide instructions clarifying queries about these GCC.

2.2 If sectional completion is **specified in the PCC**, references in the GCC to the Works, the Completion Date, and the Intended Completion Date apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

2.3 The documents forming the Contract shall be interpreted in the following order of priority:

(a) Agreement,

(b) Letter of Acceptance,

(c) Contractor's Bid,

(d) Particular Conditions of Contract,

(e) General Conditions of Contract, including Appendices,

(f) Specifications,

(g) Drawings,

(h) Bill of Quantities,[9] and

(i) any other document **listed in the PCC** as forming part of the Contract.

[9] In lump-sum contracts, delete "Bill of Quantities" and replace with "Activity Schedule."

3. Language and Law

3.1 The language of the Contract and the law governing the Contract are **stated in the PCC**.

3.2 Throughout the execution of the Contract, the Contractor shall comply with the import of goods and services prohibitions in the Employer's country when

(a) as a matter of law or official regulations, the Borrower's country prohibits commercial relations with that country; or

(b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower's Country prohibits any import of goods from that country or any payments to any country, person, or entity in that country.

4. Project Manager's Decisions

4.1 Except where otherwise specifically stated, the Project Manager shall decide contractual matters between the Employer and the Contractor in the role representing the Employer.

5. Delegation

5.1 Unless otherwise **specified in the PCC,** the Project Manager may delegate any of his duties and responsibilities to other people, except to the Adjudicator, after notifying the Contractor, and may revoke any delegation after notifying the Contractor.

6. Communications

6.1 Communications between parties that are referred to in the Conditions shall be effective only when in writing. A notice shall be effective only when it is delivered.

7. Subcontracting

7.1 The Contractor may subcontract with the approval of the Project Manager, but may not assign the Contract without the approval of the Employer in writing. Subcontracting shall not alter the Contractor's obligations. The Contractor shall require that its Subcontractors execute the Works in accordance with the Contract, including complying with the relevant ES requirements and the obligations set out in Sub-Clause 28.1.

8. Other Contractors

8.1 The Contractor shall cooperate and share the Site with other contractors, public authorities, utilities, and the Employer between the dates given in the Schedule of Other Contractors, as **referred to in the PCC.** The Contractor shall also provide facilities and services for them as described in the Schedule. The Employer may modify the Schedule of Other Contractors, and shall notify the Contractor of any such modification.

8.2 The Contractor shall also, as stated in the Specifications or as instructed by the Project Manager, cooperate with and allow appropriate opportunities for the Employer's or any other personnel, notified to the Contractor by the Employer or Project Manager, to conduct any environmental and social assessment.

9. Personnel and Equipment

9.1 The Contractor shall employ the Key Personnel and use the Equipment identified in its Bid, to carry out the Works or other personnel and Equipment approved by the Project Manager. The Project Manager shall approve any proposed replacement of Key Personnel and Equipment only if their relevant qualifications or characteristics are substantially equal to or better than those proposed in the Bid.

9.2 The Project Manager may require the Contractor to remove (or cause to be removed) any person employed on the Site or Works, including the Key Personnel (if any), who:

(a) persists in any misconduct or lack of care;

(b) carries out duties incompetently or negligently;

(c) fails to comply with any provision of the Contract;

(d) persists in any conduct which is prejudicial to safety, health, or the protection of the environment;

(e) based on reasonable evidence, is determined to have engaged in Fraud and Corruption during the execution of the Works;

(f) has been recruited from the Employer's Personnel;

(g) undertakes behavior which breaches the Code of Conduct for Contractor's Personnel (ES).

If appropriate, the Contractor shall then promptly appoint (or cause to be appointed) a suitable replacement with equivalent skills and experience.

Notwithstanding any requirement from the Project Manager to remove or cause to remove any person, the Contractor shall take immediate action as appropriate in response to any violation of (a) through (g) above. Such immediate action shall include removing (or causing to be removed) from the Site or other places where the Works are being carried out, any Contractor's Personnel who engages in (a), (b), (c), (d), (e) or (g) above or has been recruited as stated in (f) above."

9.3 The Contractor shall take all necessary safety measures to avoid the occurrence of incidents and injuries to any third party associated with the use of, if any, Equipment on public roads or other public infrastructure. The Contractor shall monitor road safety incidents and accidents to identify negative safety issues, and establish and implement necessary measures to resolve them.

9.4 Labor

9.4.1 *Engagement of Staff and Labor.* The Contractor shall provide and employ on the Site for the execution of the Works such

skilled, semi-skilled and unskilled labor as is necessary for the proper and timely execution of the Contract. The Contractor is encouraged, to the extent practicable and reasonable, to employ staff and labor with appropriate qualifications and experience from sources within the Country.

Unless otherwise provided in the Contract, the Contractor shall be responsible for the recruitment, transportation, accommodation and welfare facilities in accordance with GCC Sub-Clause 9.4.6, of the Contractor's Personnel, and for all payments in connection therewith.

The Contractor shall provide the Contractor's Personnel information and documentation that are clear and understandable regarding their terms and conditions of employment. The information and documentation shall set out their rights under relevant labor laws applicable to the Contractor's Personnel (which will include any applicable collective agreements), including their rights related to hours of work, wages, overtime, compensation and benefits, as well as those arising from any requirements in the Specifications. The Contractor's Personnel shall be informed when any material changes to their terms or conditions of employment occur.

9.4.2 *Conditions of Labor.* The Contractor shall inform the Contractor's Personnel about:

(a) any deduction to their payment and the conditions of such deductions in accordance with the applicable laws or as stated in the Specifications; and

(b) their liability to pay personal income taxes in the Country in respect of such of their salaries, wages, allowances and any benefits as are subject to tax under the laws of the Country for the time being in force.

The Contractor shall perform such duties in regard to such deductions thereof as may be imposed on him by such laws.

Where required by applicable laws or as stated in the Specifications, the Contractor shall provide the Contractor's Personnel written notice of termination of employment and details of severance payments in a timely manner. The Contractor shall have paid the Contractor's Personnel (either directly or where appropriate for their benefit) all due wages and entitlements including, as applicable, social security benefits and pension contributions, on or before the end of their engagement/ employment.

9.4.3 The Contractor may bring in to the Country any foreign personnel who are necessary for the execution of the Works to the extent allowed by the applicable Laws. The Contractor shall

ensure that these personnel are provided with the required residence visas and work permits. The Employer will, if requested by the Contractor, use its best endeavors in a timely and expeditious manner to assist the Contractor in obtaining any local, state, national, or government permission required for bringing in the Contractor's personnel.

9.4.4 The Contractor shall at its own expense provide the means of repatriation to and the Contractor's Personnel employed on the Contract at the Site to their various home countries. It shall also provide suitable temporary maintenance of all such persons from the cessation of their employment on the Contract to the date programmed for their departure. In the event that the Contractor defaults in providing such means of transportation and temporary maintenance, the Employer may provide the same to such personnel and recover the cost of doing so from the Contractor.

9.4.5 *Disorderly conduct.* The Contractor shall at all times during the progress of the Contract use its best endeavors to prevent any unlawful, riotous or disorderly conduct or behavior by or amongst the Contractor's Personnel.

9.4.6 *Facilities for Staff and Labor.* Except as otherwise stated in the Specification, the Contractor shall provide and maintain all necessary accommodation and welfare facilities for the Contractor's Personnel. If stated in the Specification, the Contractor shall give access to or provide services that accommodate the physical, social and cultural needs of the Contractor's Personnel. The Contractor shall also provide similar facilities for the Employer's Personnel if stated in the Specifications.

9.4.7 The Contractor shall, in all dealings with the Contractor's Personnel, pay due regard to all recognized festivals, official holidays, religious or other customs and all local laws and regulations pertaining to the employment of labor. The Contractor shall provide the Contractor's Personnel annual holiday and sick, maternity and family leave, as required by applicable laws or as stated in the Specifications.

9.4.8 *Supply of Foodstuff*s. The Contractor shall arrange for the provision of a sufficient supply of suitable food as may be stated in the Specification at reasonable prices for the Contractor's Personnel for the purposes of or in connection with the Contract.

9.4.9 *Supply of Water*. The Contractor shall, having regard to local conditions, provide on the Site an adequate supply of drinking and other water for the use of the Contractor's Personnel.

9.4.10 *Measures against Insect and Pest Nuisance.* The Contractor shall at all times take the necessary precautions to protect the Contractor's Personnel employed on the Site from insect and pest nuisance, and to reduce the danger to their health. The Contractor shall comply with all the regulations of the local health authorities, including use of appropriate insecticide.

9.4.11 *Alcoholic Liquor or Drugs*. The Contractor shall not, otherwise than in accordance with the laws of the Country, import, sell, give, barter or otherwise dispose of any alcoholic liquor or drugs, or permit or allow importation, sale, gift, barter or disposal thereto by Contractor's Personnel.

9.4.12 *Arms and Ammunition*. The Contractor shall not give, barter, or otherwise dispose of, to any person, any arms or ammunition of any kind, or allow Contractor's Personnel to do so.

9.4.13 *Funeral Arrangements.* The Contractor shall be responsible, to the extent required by local regulations, for making any funeral arrangements for any of its local employees who may die while engaged upon the Works.

9.4.14 *Forced Labor.* The Contractor, including its Subcontractors, shall not employ or engage forced labor. Forced labor consists of any work or service, not voluntarily performed, that is exacted from an individual under threat of force or penalty, and includes any kind of involuntary or compulsory labor, such as indentured labor, bonded labor or similar labor-contracting arrangements.

No persons shall be employed or engaged who have been subject to trafficking. Trafficking in persons is defined as the recruitment, transportation, transfer, harboring or receipt of persons by means of the threat or use of force or other forms of coercion, abduction, fraud, deception, abuse of power, or of a position of vulnerability, or of the giving or receiving of payments or benefits to achieve the consent of a person having control over another person, for the purposes of exploitation.

9.4.15 *Child Labor*. The Contractor, including its Subcontractors, shall not employ or engage a child under the age of 14 unless the national law specifies a higher age (the minimum age).

The Contractor, including its Subcontractors, shall not employ or engage a child between the minimum age and the age of 18 in a manner that is likely to be hazardous, or to interfere with, the child's education, or to be harmful to the child's health or physical, mental, spiritual, moral, or social development.

The Contractor including its Subcontractors, shall only employ or engage children between the minimum age and the age of 18 after an appropriate risk assessment has been conducted by the Contractor with the Project Manager's

approval. The Contractor shall be subject to regular monitoring by the Project Manager that includes monitoring of health, working conditions and hours of work.

Work considered hazardous for children is work that, by its nature or the circumstances in which it is carried out, is likely to jeopardize the health, safety, or morals of children. Such work activities prohibited for children include work:

(a) with exposure to physical, psychological or sexual abuse;

(b) underground, underwater, working at heights or in confined spaces;

(c) with dangerous machinery, equipment or tools, or involving handling or

(d) transport of heavy loads;

(e) in unhealthy environments exposing children to hazardous substances, agents, or processes, or to temperatures, noise or vibration damaging to health; or

(f) under difficult conditions such as work for long hours, during the night or in confinement on the premises of the employer.

9.4.16 *Employment Records of Workers.* The Contractor shall keep complete and accurate records of the employment of labor at the Site. The records shall include the names, ages, genders, hours worked, and wages paid to all workers. These records shall be summarized on a monthly basis and submitted to the project Manager.

9.4.17 *Workers' Organizations*. In countries where the relevant labor laws recognize workers' rights to form and to join workers' organizations of their choosing and to bargain collectively without interference, the Contractor shall comply with such laws. In such circumstances, the role of legally established workers' organizations and legitimate workers' representatives will be respected, and they will be provided with information needed for meaningful negotiation in a timely manner. Where the relevant labor laws substantially restrict workers' organizations, the Contractor shall enable alternative means for the Contractor's Personnel to express their grievances and protect their rights regarding working conditions and terms of employment. The Contractor shall not seek to influence or control these alternative means. The Contractor shall not discriminate or retaliate against the Contractor's Personnel who participate, or seek to participate, in such organizations and collective bargaining or alternative mechanisms. Workers' organizations are expected to fairly represent the workers in the workforce.

9.4.18 *Non-Discrimination and Equal Opportunity.* The Contractor shall not make decisions relating to the employment or treatment of Contractor's Personnel on the basis of personal characteristics unrelated to inherent job requirements. The Contractor shall base the employment of Contractor's Personnel on the principle of equal opportunity and fair treatment, and shall not discriminate with respect to any aspects of the employment relationship, including recruitment and hiring, compensation (including wages and benefits), working conditions and terms of employment, access to training, job assignment, promotion, termination of employment or retirement, and disciplinary practices.

Special measures of protection or assistance to remedy past discrimination or selection for a particular job based on the inherent requirements of the job shall not be deemed discrimination. The Contractor shall provide protection and assistance as necessary to ensure non-discrimination and equal opportunity, including for specific groups such as women, people with disabilities, migrant workers and children (of working age in accordance with GCC Sub-Clause 9.4.15).

9.4.19 *Contractor's Personnel Grievance Mechanism.* The Contractor shall have a grievance mechanism for Contractor's Personnel, and where relevant the workers' organizations stated in GCC Sub-Clause 9.4.17, to raise workplace concerns. The grievance mechanism shall be proportionate to the nature, scale, risks and impacts of the Contract. The mechanism shall address concerns promptly, using an understandable and transparent process that provides timely feedback to those concerned in a language they understand, without any retribution, and shall operate in an independent and objective manner.

The Contractor's Personnel shall be informed of the grievance mechanism at the time of engagement for the Contract, and the measures put in place to protect them against any reprisal for its use. Measures will be put in place to make the grievance mechanism easily accessible to all Contractor's Personnel.

The grievance mechanism shall not impede access to other judicial or administrative remedies that might be available, or substitute for grievance mechanisms provided through collective agreements.

The grievance mechanism may utilize existing grievance mechanisms, providing that they are properly designed and implemented, address concerns promptly, and are readily accessible to Contractor's Personnel. Existing grievance mechanisms may be supplemented as needed with Contract-specific arrangements.

9.4.20 *Training of Contractor's Personnel.* The Contractor shall provide appropriate training to relevant Contractor's Personnel on ES aspects of the Contract, including appropriate sensitization on prohibition of SEA and SH, and health and safety training referred to in GCC Sub-Clause 18.2.

As stated in the Specifications or as instructed by the Project Manager, the Contractor shall also allow appropriate opportunities for the relevant Contractor's Personnel to be trained on ES aspects of the Contract by the Employer's Personnel.

The Contractor shall provide training on SEA and SH, including its prevention, to any of its personnel who has a role to supervise other Contractor's Personnel.

10. Employer's and Contractor's Risks

10.1 The Employer carries the risks which this Contract states are Employer's risks, and the Contractor carries the risks which this Contract states are Contractor's risks.

11. Employer's Risks

11.1 From the Start Date until the Defects Liability Certificate has been issued, the following are Employer's risks:

(a) The risk of personal injury, death, or loss of or damage to property (excluding the Works, Plant, Materials, and Equipment), which are due to

(i) use or occupation of the Site by the Works or for the purpose of the Works, which is the unavoidable result of the Works or

(ii) negligence, breach of statutory duty, or interference with any legal right by the Employer or by any person employed by or contracted to him except the Contractor.

(b) The risk of damage to the Works, Plant, Materials, and Equipment to the extent that it is due to a fault of the Employer or in the Employer's design, or due to war or radioactive contamination directly affecting the country where the Works are to be executed.

11.2 From the Completion Date until the Defects Liability Certificate has been issued, the risk of loss of or damage to the Works, Plant, and Materials is an Employer's risk except loss or damage due to

(a) a Defect which existed on the Completion Date,

(b) an event occurring before the Completion Date, which was not itself an Employer's risk, or

(c) the activities of the Contractor on the Site after the Completion Date.

12. Contractor's Risks

12.1 From the Starting Date until the Defects Liability Certificate has been issued, the risks of personal injury, death, and loss of or damage to property (including, without limitation, the Works, Plant, Materials, and Equipment) which are not Employer's risks are Contractor's risks.

13. Insurance

13.1 The Contractor shall provide, in the joint names of the Employer and the Contractor, insurance cover from the Start Date to the end of the Defects Liability Period, in the amounts and deductibles **stated in the PCC** for the following events which are due to the Contractor's risks:

(a) loss of or damage to the Works, Plant, and Materials;

(b) loss of or damage to Equipment;

(c) loss of or damage to property (except the Works, Plant, Materials, and Equipment) in connection with the Contract; and

(d) personal injury or death.

13.2 Policies and certificates for insurance shall be delivered by the Contractor to the Project Manager for the Project Manager's approval before the Start Date. All such insurance shall provide for compensation to be payable in the types and proportions of currencies required to rectify the loss or damage incurred.

13.3 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.

13.4 Alterations to the terms of an insurance shall not be made without the approval of the Project Manager.

13.5 Both parties shall comply with any conditions of the insurance policies.

14. Site Data

14.1 The Contractor shall be deemed to have examined any Site Data **referred to in the PCC**, supplemented by any information available to the Contractor.

15. Contractor to Construct the Works

15.1 The Contractor shall construct and install the Works in accordance with the Specifications and Drawings.

15.2 If the Contract specifies that the Contractor shall design any part of the permanent Works, the Contractor shall take into account the Employer's requirements which may include, if stated in the Specifications:

(a) designing structural elements of the Works taking into account climate change considerations;

(b) applying the concept of universal access (the concept of universal access means unimpeded access for people of all ages and abilities in different situations and under various circumstances; and

(c) considering the incremental risks of the public's potential exposure to operational accidents or natural hazards, including extreme weather events.

16. The Works to Be Completed by the Intended Completion Date

16.1 The Contractor may commence execution of the Works on the Start Date and shall carry out the Works in accordance with the Program submitted by the Contractor, as updated with the approval of the Project Manager, and complete them by the Intended Completion Date.

16.2 The Contractor shall not carry out mobilization to the Site unless the Project Manager gives approval, an approval that shall not be unreasonably delayed, to the measures the Contractor proposes to address environmental and social risks and impacts, which at a minimum shall include applying the Management Strategies and Implementation Plans (MSIPs) and Code of Conduct for Contractor's Personnel submitted as part of the Bid and agreed as part of the Contract.

The Contractor shall submit, to the Project Manager for its approval any additional MSIPs as are necessary to manage the ES risks and impacts of ongoing Works. These MSIPs collectively comprise the Contractor's Environmental and Social Management Plan (C-ESMP). The Contractor shall review the C-ESMP, periodically (but not less than every six (6) months), and update it as required to ensure that it contains measures appropriate to the Works. The updated C-ESMP shall be submitted to the Project Manager for its approval.

17. Approval by the Project Manager

17.1 The Contractor shall submit Specifications and Drawings showing the proposed Temporary Works to the Project Manager, for his approval.

17.2 The Contractor shall be responsible for design of Temporary Works.

17.3 The Project Manager's approval shall not alter the Contractor's responsibility for design of the Temporary Works.

17.4 The Contractor shall obtain approval of third parties to the design of the Temporary Works, where required.

17.5 All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, are subject to prior approval by the Project Manager before this use.

18. Health, Safety and Protection of the Environment

18.1 The Contractor shall be responsible for the safety of all activities on the Site.

18.2 The Contractor shall:

(a) comply with all applicable health and safety regulations and Laws;

(b) comply with all applicable health and safety obligations specified in the Contract;

(c) take care for the health and safety of all persons entitled to be on the Site and other places, if any, where the Works are being executed;

(d) keep the Site and Works clear of unnecessary obstruction so as to avoid danger to these persons;

(e) provide fencing, lighting, safe access, guarding and watching of the Works until the issue of the Contract Completion Certificate;

(f) provide any Temporary Works (including roadways, footways, guards and fences) which may be necessary, because of the execution of the Works, for the use and protection of the public and of owners and occupiers of adjacent land;

(g) provide health and safety training of Contractor's Personnel as appropriate and maintain training records;

(h) actively engage the Contractor's Personnel in promoting understanding, and methods for, implementation of health and safety requirements, as well as in providing information to Contractor's Personnel, training on occupational safety and health, and provision of personal protective equipment without expense to the Contractor's Personnel;

(i) put in place workplace processes for Contractor's Personnel to report work situations that they believe are not safe or healthy, and to remove themselves from a work situation which they have reasonable justification to believe presents an imminent and serious danger to their life or health.

(j) Contractor's Personnel who remove themselves from such work situations shall not be required to return to work until necessary remedial action to correct the situation has been taken. Contractor's Personnel shall not be retaliated

against or otherwise subject to reprisal or negative action for such reporting or removal;

(k) where the Employer's Personnel, any other contractors employed by the Employer, and/or personnel of any legally constituted public authorities and private utility companies are employed in carrying out, on or near the site, of any work not included in the Contract, collaborate in applying the health and safety requirements, without prejudice to the responsibility of the relevant entities for the health and safety of their own personnel; and

(l) establish and implement a system for regular (not less than six-monthly) review of health and safety performance and the working environment.

Subject to GCC Sub-Clause 16.2, the Contractor shall submit to the Project Manager for its approval a health and safety manual which has been specifically prepared for the Works, the Site and other places (if any) where the Contractor intends to execute the Works.

The health and safety manual shall be in addition to any other similar document required under applicable health and safety regulations and laws.

The health and safety manual shall set out all the health and safety requirements under the Contract,

(a) which shall include at a minimum:

(i) the procedures to establish and maintain a safe working environment without risk to health at all workplaces, machinery, equipment and processes under the control of the Contractor, including control measures for chemical, physical and biological substances and agents;

(ii) details of the training to be provided, records to be kept;

(iii) the procedures for prevention, preparedness and response activities to be implemented in the case of an emergency event (i.e. an unanticipated incident, arising from both natural and man-made hazards, typically in the form of fire, explosions, leaks or spills, which may occur for a variety of different reasons including failure to implement operating procedures that are designed to prevent their occurrence, extreme weather or lack of early warning);

(iv) remedies for adverse impacts such as occupational injuries, deaths, disability and disease;

(v) the measures to be taken to avoid or minimize the potential for community exposure to water-borne, water-based, water-related, and vector-borne diseases,

(vi) the measures to be implemented to avoid or minimize the spread of communicable diseases (including transfer of Sexually Transmitted Diseases or Infections (STDs), such as HIV virus) and non-communicable diseases associated with the execution of the Works, taking into consideration differentiated exposure to and higher sensitivity of vulnerable groups. This includes taking measures to avoid or minimize the transmission of communicable diseases that may be associated with the influx of temporary or permanent Contract-related labor;

(vii) the policies and procedures on the management and quality of accommodation and welfare facilities if such accommodation and welfare facilities are provided by the Contractor in accordance with GCC Sub-Clause 9.4.6; and

(b) any other requirements stated in the Specification

18.3 Protection of the environment

The Contractor shall take all necessary measures to:

(a) protect the environment (both on and off the Site); and

(b) limit damage and nuisance to people and property resulting from pollution, noise and other results of the Contractor's operations and/ or activities.

The Contractor shall ensure that emissions, surface discharges, effluent and any other pollutants from the Contractor's activities shall exceed neither the values indicated in the Specifications, nor those prescribed by applicable laws.

In the event of damage to the environment, property and/or nuisance to people, on or off Site as a result of the Contractor's operations, the Contractor shall agree with the Project Manager the appropriate actions and time scale to remedy, as practicable, the damaged environment to its former condition. The Contractor shall implement such remedies at its cost to the satisfaction of the Project Manager.

19. Archaeological and Geological Findings

19.1 All fossils, coins, articles of value or antiquity, structures, groups of structures, and other remains or items of geological, archaeological, paleontological, historical, architectural or religious interest found on the Site shall be placed under the care and custody of the Employer. The Contractor shall:

(a) take all reasonable precautions, including fencing-off the area or site of the finding, to avoid further disturbance and prevent Contractor's Personnel or other persons from removing or damaging any of these findings;

(b) train relevant Contractor's Personnel on appropriate actions to be taken in the event of such findings; and

(c) implement any other action consistent with the requirements of the Specifications and relevant laws.

The Contractor shall, as soon as practicable after discovery of any such finding, notify the Project Manager of such discoveries and carry out the Project Manager's instructions for dealing with them.

20. Possession of the Site

20.1 The Employer shall give possession of all parts of the Site to the Contractor. If possession of a part is not given by the date **stated in the PCC,** the Employer shall be deemed to have delayed the start of the relevant activities, and this shall be a Compensation Event.

21. Access to the Site

21.1 The Contractor shall allow the Project Manager and any person authorized by the Project Manager (including the Bank staff or consultants acting on the Bank's behalf, stakeholders and third parties, such as independent experts, local communities, or non-governmental organizations), including to carry out environmental and social audit, as appropriate, 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.

22. Instructions, Inspections and Audits

22.1 The Contractor shall carry out all instructions of the Project Manager which comply with the applicable laws where the Site is located.

22.2 The Contractor shall keep, and shall make all reasonable efforts to cause its Subcontractors and subconsultants to keep, accurate and systematic accounts and records in respect of the Works in such form and details as will clearly identify relevant time changes and costs.

22.3 Inspections &Audit by the Bank

Pursuant to paragraph 2.2 e. of Appendix A to the GCC- Fraud and Corruption, the Contractor shall permit and shall cause its

agents (where declared or not), subcontractors, subconsultants, service providers, suppliers, and personnel, to permit, the Bank and/or persons appointed by the Bank to inspect the site and/or the accounts, records and other documents relating to the procurement process, selection and/or contract execution, and to have such accounts, records and other documents audited by auditors appointed by the Bank. The Contractor's and its Subcontractors' and subconsultants' attention is drawn to GCC Sub-Clause 25.1 (Fraud and Corruption) which provides, inter alia, that acts intended to materially impede the exercise of the Bank's inspection and audit rights constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the Bank's prevailing sanctions procedures).

23. Appointment of the Adjudicator

23.1 The Adjudicator shall be appointed jointly by the Employer and the Contractor, at the time of the Employer's issuance of the Letter of Acceptance. If, in the Letter of Acceptance, the Employer does not agree on the appointment of the Adjudicator, the Employer will request the Appointing Authority **designated in the PCC**, to appoint the Adjudicator within 14 days of receipt of such request.

23.2 Should the Adjudicator resign or die, or should the Employer and the Contractor agree that the Adjudicator is not functioning in accordance with the provisions of the Contract, a new Adjudicator shall be jointly appointed by the Employer and the Contractor. In case of disagreement between the Employer and the Contractor, within 30 days, the Adjudicator shall be designated by the Appointing Authority **designated in the PCC** at the request of either party, within 14 days of receipt of such request.

24. Procedure for Disputes

24.1 If the Contractor believes that a decision taken by the Project Manager was either outside the authority given to the Project Manager by the Contract or that the decision was wrongly taken, the decision shall be referred to the Adjudicator within 14 days of the notification of the Project Manager's decision.

24.2 The Adjudicator shall give a decision in writing within 28 days of receipt of a notification of a dispute.

24.3 The Adjudicator shall be paid by the hour at the **rate specified in the PCC,** together with reimbursable expenses of the types **specified in the PCC**, and the cost shall be divided equally between the Employer and the Contractor, whatever decision is reached by the Adjudicator. Either party may refer a decision of the Adjudicator to an Arbitrator within 28 days of the Adjudicator's written decision. If neither party refers the dispute

to arbitration within the above 28 days, the Adjudicator's decision shall be final and binding.

24.4 The arbitration shall be conducted in accordance with the arbitration procedures published by the institution named and in the place **specified in the PCC.**

25. Fraud and Corruption

25.1 The 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 Appendix A to the GCC.

25.2 The Employer requires the Contractor to disclose any commissions or fees that may have been paid or are to be paid to agents or any other party with respect to the bidding process or execution of the Contract. The information disclosed must include at least the name and address of the agent or other party, the amount and currency, and the purpose of the commission, gratuity or fee.

26. Stakeholder Engagement

26.1 The Contractor shall provide relevant contract- related information, as the Employer and/or Project Manager may reasonably request to conduct Stakeholder engagements. "Stakeholder" refers to individuals or groups who:

(i) are affected or likely to be affected by the Contract; and

(ii) may have an interest in the Contract.

The Contractor may also directly participate in Stakeholder engagements, as the Employer and/or Project Manager may reasonably request

27. Suppliers (other than Subcontractors)

27.1 Forced Labor: The Contractor shall take measures to require its suppliers (other than Subcontractors) not to employ or engage forced labor including trafficked persons as described in GCC Sub-Clause 9.4.14. If forced labor/trafficking cases are identified, the Contractor shall take measures to require the suppliers to take appropriate steps to remedy them. Where the supplier does not remedy the situation, the Contractor shall within a reasonable period substitute the supplier with a supplier that is able to manage such risks.

27.2 *Child Labor:* The Contractor shall take measures to require its suppliers (other than Subcontractors) not to employ or engage child labor as described in GCC Sub-Clause 9.4.15. If child labor cases are identified, the Contractor shall take measures to require the suppliers to take appropriate steps to remedy them. Where the supplier does not remedy the situation, the Contractor shall within a reasonable period substitute the supplier with a supplier that is able to manage such risks.

27.3 *Serious Safety Issues:* The Contractor, including its Subcontractors, shall comply with all applicable safety obligations, including as stated in GCC Sub-Clause 18.2. The Contractor shall also take measures to require its suppliers (other than Subcontractors) to adopt procedures and mitigation measures adequate to address safety issues related to their personnel. If serious safety issues are identified, the Contractor shall take measures to require the suppliers to take appropriate steps to remedy them. Where the supplier does not remedy the situation, the Contractor shall within a reasonable period substitute the supplier with a supplier that is able to manage such risks.

27.4 *Obtaining natural resource materials in relation to supplier:* The Contractor shall obtain natural resource *materials* from suppliers that can demonstrate, through compliance with the applicable verification and/ or certification requirements, that obtaining such materials is not contributing to the risk of significant conversion or significant degradation of natural or critical habitats such as unsustainably harvested wood products, gravel or sand extraction from river beds or beaches.

If a supplier cannot continue to demonstrate that obtaining such materials is not contributing to the risk of significant conversion or significant degradation of natural or critical habitats, the Contractor shall within a reasonable period substitute the supplier with a supplier that is able to demonstrate that they are not significantly adversely impacting the habitats.

28. Code of Conduct

28.1 The Contractor shall have a Code of Conduct for the Contractor's Personnel.

The Contractor shall take all necessary measures to ensure that each Contractor's Personnel is made aware of the Code of Conduct including specific behaviors that are prohibited, and understands the consequences of engaging in such prohibited behaviors.

These measures include providing instructions and documentation that can be understood by the Contractor's Personnel and seeking to obtain that person's signature acknowledging receipt of such instructions and/or documentation, as appropriate.

The Contractor shall also ensure that the Code of Conduct is visibly displayed in multiple locations on the Site and any other place where the Works will be carried out, as well as in areas outside the Site accessible to the local community and project affected people. The posted Code of Conduct shall be provided in languages comprehensible to Contractor's Personnel, Employer's Personnel and the local community.

The Contractor's Management Strategy and Implementation Plans shall include appropriate processes for the Contractor to verify compliance with these obligations.

29. Security of the Site

29.1 The Contractor shall be responsible for the security of the Site, and:

(a) for keeping unauthorized persons off the Site;

(b) authorized persons shall be limited to the Contractor's Personnel, the Employer's Personnel, and to any other personnel identified as authorized personnel (including the Employer's other contractors on the Site), by a notice from the Employer or the Project Manager to the Contractor.

Subject to GCC Sub-Clause 16.2, the Contractor shall submit for the Project Manager's No-objection a security management plan that sets out the security arrangements for the Site

The Contractor shall (i) conduct appropriate background checks on any personnel retained to provide security; (ii) train the security personnel adequately (or determine that they are properly trained) in the use of force (and where applicable, firearms), and appropriate conduct towards Contractor's Personnel, Employer's Personnel and affected communities; and (iii) require the security personnel to act within the applicable Laws and any requirements set out in the Specifications.

The Contractor shall not permit any use of force by security personnel in providing security except when used for preventive and defensive purposes in proportion to the nature and extent of the threat.

In making security arrangements, the Contractor shall also comply with any additional requirements stated in the Specification."

B. Time Control

30. Program and Progress Reports

30.1 Within the time **stated in the PCC**, after the date of the Letter of Acceptance, the Contractor shall submit to the Project Manager for approval a Program showing the general methods, arrangements, order, and timing for all the activities in the Works. In the case of a lump-sum contract, the activities in the Program shall be consistent with those in the Activity Schedule. The Project Manager's approval of the Program shall not alter the Contractor's obligations. The Contractor may revise the Program and submit it to the Project Manager again at any time. A revised Program shall show the effect of Variations and Compensation Events.

30.2 An update of the Program shall be a program showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work, including any changes to the sequence of the activities.

30.3 The Contractor shall monitor progress of the Works and submit to the Project manager progress report and any updated Program showing the actual progress achieved and the effect of the progress achieved on the timing of the remaining Works, including any changes to the sequence of the activities, at intervals no longer than the period **stated in the PCC.** If the Contractor does not submit an updated Program within this period, the Project Manager may withhold the amount **stated in the PCC** from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program has been submitted. In the case of lump-sum Contract, the Contractor shall provide an updated Activity Schedule within 14 days of being instructed to by the Project Manager.

30.4 Unless otherwise stated in the Specifications, each progress report shall include the Environmental and Social (ES) metrics set out in Appendix B.

30.5 In addition to the progress reports, the Contractor shall inform the Project Manager immediately of any allegation, incident or accident in the Site, which has or is likely to have a significant adverse effect on the environment, the affected communities, the public, Employer's Personnel, Project Manager's personnel or Contractor's Personnel. This includes, but is not limited to, any incident or accident causing fatality or serious injury; significant adverse effects or damage to private property; or any allegation of SEA and/or SH. In case of SEA and/or SH, while maintaining confidentiality as appropriate, the type of allegation (sexual exploitation, sexual abuse or sexual harassment), gender and age of the person who experienced the alleged incident should be included in the information.

The Contractor, upon becoming aware of the allegation, incident or accident, shall also immediately inform the Project Manager of any such incident or accident on the Subcontractors' or suppliers' premises relating to the Works which has or is likely to have a significant adverse effect on the environment, the affected communities, the public, Employer's Personnel, or Contractor's, its Subcontractors' and suppliers' personnel. The notification shall provide sufficient detail regarding such incidents or accidents. The Contractor shall provide full details of such incidents or accidents to the Project Manager within the timeframe agreed with the Project Manager.

The Contractor shall require its Subcontractors and suppliers (other than Subcontractors) to immediately notify the Contractor of any incidents or accidents referred to in this Subclause.

31. Extension of the Intended Completion Date

31.1 The Project Manager shall extend the Intended Completion Date if a Compensation Event occurs or a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date without the Contractor taking steps to accelerate the remaining work, which would cause the Contractor to incur additional cost.

31.2 The Project Manager shall decide whether and by how much to extend the Intended Completion Date within 21 days of the Contractor asking the Project Manager for a decision upon the effect of a Compensation Event or Variation and submitting full supporting information. If the Contractor has failed to give early warning of a delay or has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new Intended Completion Date.

32. Acceleration

32.1 When the Employer wants the Contractor to finish before the Intended Completion Date, the Project Manager shall obtain priced proposals for achieving the necessary acceleration from the Contractor. If the Employer accepts these proposals, the Intended Completion Date shall be adjusted accordingly and confirmed by both the Employer and the Contractor.

32.2 If the Contractor's priced proposals for an acceleration are accepted by the Employer, they are incorporated in the Contract Price and treated as a Variation.

33. Delays Ordered by the Project Manager

33.1 The Project Manager may instruct the Contractor to delay the start or progress of any activity within the Works.

34. Management Meetings

34.1 Either the Project Manager or the Contractor may require the other to attend a management meeting. The business of a management meeting shall be to review the plans for remaining work and to deal with matters raised in accordance with the early warning procedure.

34.2 The Project Manager shall record the business of management meetings and provide copies of the record to those attending the meeting and to the Employer. The responsibility of the parties for actions to be taken shall be decided by the Project Manager either at the management meeting or after the management meeting and stated in writing to all who attended the meeting.

35. Early Warning

35.1 The Contractor shall warn the Project Manager at the earliest opportunity of specific likely future events or circumstances that

may adversely affect the quality of the work, increase the Contract Price, or delay the execution of the Works. The Project Manager may require the Contractor to provide an estimate of the expected effect of the future event or circumstance on the Contract Price and Completion Date. The estimate shall be provided by the Contractor as soon as reasonably possible.

35.2 The Contractor shall cooperate with the Project Manager in making and considering proposals for how the effect of such an event or circumstance can be avoided or reduced by anyone involved in the work and in carrying out any resulting instruction of the Project Manager.

C. Quality Control

36. Identifying Defects

36.1 The Project Manager shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Project Manager may instruct the Contractor to search for a Defect and to uncover and test any work that the Project Manager considers may have a Defect.

37. Tests

37.1 If the Project Manager instructs the Contractor to carry out a test not specified in the Specifications to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no Defect, the test shall be a Compensation Event.

38. Correction of Defects

38.1 The Project Manager 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 PCC.** The Defects Liability Period shall be extended for as long as Defects remain to be corrected.

38.2 Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the length of time specified by the Project Manager's notice.

39. Uncorrected Defects

39.1 If the Contractor has not corrected a Defect within the time specified in the Project Manager's notice, the Project Manager shall assess the cost of having the Defect corrected, and the Contractor shall pay this amount.

D. Cost Control

40. Contract Price10

40.1 The Bill of Quantities shall contain priced items for the Works to be performed by the Contractor. The Bill of Quantities is used

[10] In lump-sum contracts, replace GCC Sub-Clauses 40.1 as follows:

to calculate the Contract Price. The Contractor will be paid for the quantity of the work accomplished at the rate in the Bill of Quantities for each item.

41. Changes in the Contract Price11

41.1 If the final quantity of the work done differs from the quantity in the Bill of Quantities for the particular item by more than 25 percent, provided the change exceeds 1 percent of the Initial Contract Price, the Project Manager shall adjust the rate to allow for the change. The Project Manager shall not adjust rates from changes in quantities if thereby the Initial Contract Price is exceeded by more than 15 percent, except with the prior approval of the Employer.

41.2 If requested by the Project Manager, the Contractor shall provide the Project Manager with a detailed cost breakdown of any rate in the Bill of Quantities.

42. Variations

42.1 All Variations shall be included in updated Programs[12] produced by the Contractor.

42.2 The Contractor shall provide the Project Manager with a quotation for carrying out the Variation when requested to do so by the Project Manager. The Contractor shall also provide information of any ES risks and impacts of the Variation. The Project Manager shall assess the quotation, which shall be given within seven (7) days of the request or within any longer period stated by the Project Manager and before the Variation is ordered.

42.3 If the Contractor's quotation is unreasonable, the Project Manager may order the Variation and make a change to the Contract Price, which shall be based on the Project Manager's own forecast of the effects of the Variation on the Contractor's costs.

42.4 If the Project Manager decides that the urgency of varying the work would prevent a quotation being given and considered without delaying the work, no quotation shall be given and the Variation shall be treated as a Compensation Event.

40.1 The Contractor shall provide updated Activity Schedules within 14 days of being instructed to by the Project Manager. The Activity Schedule shall contain the priced activities for the Works to be performed by the Contractor. The Activity Schedule is used to monitor and control the performance of activities on which basis the Contractor will be paid. If payment for materials on site shall be made separately, the Contractor shall show delivery of Materials to the Site separately on the Activity Schedule.

11 In lump-sum contracts, replace entire GCC Clause 41 with new GCC Sub-Clause 41.1, as follows:

41.1 The Activity Schedule shall be amended by the Contractor to accommodate changes of Program or method of working made at the Contractor's own discretion. Prices in the Activity Schedule shall not be altered when the Contractor makes such changes to the Activity Schedule.

12 In lump-sum contracts, add "and Activity Schedules" after "Programs."

42.5 The Contractor shall not be entitled to additional payment for costs that could have been avoided by giving early warning.

42.6 If the work in the Variation corresponds to an item description in the Bill of Quantities and if, in the opinion of the Project Manager, the quantity of work above the limit stated in GCC Sub-Clause 41.1 or the timing of its execution do not cause the cost per unit of quantity to change, the rate in the Bill of Quantities shall be used to calculate the value of the Variation. If the cost per unit of quantity changes, or if the nature or timing of the work in the Variation does not correspond with items in the Bill of Quantities, the quotation by the Contractor shall be in the form of new rates for the relevant items of work. [13]

42.7 Value Engineering: The Contractor may prepare, at its own cost, a value engineering proposal at any time during the performance of the contract. The value engineering proposal shall, at a minimum, include the following;

(a) the proposed change(s), and a description of the difference to the existing contract requirements;

(b) a full cost/benefit analysis of the proposed change(s) including a description and estimate of costs (including life cycle cost) the Employer may incur in implementing the value engineering proposal;

(c) a description of any effect(s) of the change on performance/functionality; and

(d) a description of the proposed work to be performed, a program for its execution and sufficient ES information to enable an evaluation of ES risks and impacts.

The Employer may accept the value engineering proposal if the proposal demonstrates benefits that:

(a) accelerates the contract completion period; or

(b) reduces the Contract Price or the life cycle costs to the Employer; or

(c) improves the quality, efficiency, safety or sustainability of the Facilities; or

(d) yields any other benefits to the Employer,

without compromising the functionality of the Works.

If the value engineering proposal is approved by the Employer and results in:

[13] In lump-sum contracts, delete this paragraph.

(a) a reduction of the Contract Price; the amount to be paid to the Contractor shall be the **percentage specified in the PCC** of the reduction in the Contract Price; or

(b) an increase in the Contract Price; but results in a reduction in life cycle costs due to any benefit described in (a) to (d) above, the amount to be paid to the Contractor shall be the full increase in the Contract Price.

43. Cash Flow Forecasts

43.1 When the Program,[14] is updated, the Contractor shall provide the Project Manager with an updated cash flow forecast. The cash flow forecast shall include different currencies, as defined in the Contract, converted as necessary using the Contract exchange rates.

44. Payment Certificates

44.1 The Contractor shall submit to the Project Manager monthly statements of the estimated value of the work executed less the cumulative amount certified previously.

44.2 The Project Manager shall check the Contractor's monthly statement and certify the amount to be paid to the Contractor.

44.3 The value of work executed shall be determined by the Project Manager.

44.4 The value of work executed shall comprise the value of the quantities of work in the Bill of Quantities that have been completed.[15]

44.5 The value of work executed shall include the valuation of Variations and Compensation Events.

44.6 The Project Manager may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.

44.7 If the Contractor was, or is, failing to perform any ES obligations or work under the Contract, the value of this work or obligation, as determined by the Project Manager, may be withheld until the work or obligation has been performed, and/or the cost of rectification or replacement, as determined by the Project Manager, may be withheld until rectification or replacement has been completed. Failure to perform includes, but is not limited to the following:

(a) failure to comply with any ES obligations or work described in the Works' Requirements which may include: working outside site boundaries, excessive dust,

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[14] In lump-sum contracts, add "or Activity Schedule" after "Program."

[15] In lump-sum contracts, replace this paragraph with the following: "The value of work executed shall comprise the value of completed activities in the Activity Schedule."

failure to keep public roads in a safe usable condition, damage to offsite vegetation, pollution of water courses from oils or sedimentation, contamination of land e.g. from oils, human waste, damage to archeology or cultural heritage features, air pollution as a result of unauthorized and/or inefficient combustion;

(b) failure to regularly review C-ESMP and/or update it in a timely manner to address emerging ES issues, or anticipated risks or impacts;

(c) failure to implement the C-ESMP e.g. failure to provide required training or sensitization;

(d) failing to have appropriate consents/permits prior to undertaking Works or related activities;

(e) failure to submit ES report/s (as described in Appendix B), or failure to submit such reports in a timely manner;

(f) failure to implement remediation as instructed by the Project Manager within the specified timeframe (e.g. remediation addressing non-compliance/s).

45. Payments

45.1 Payments shall be adjusted for deductions for advance payments and retention. The Employer shall pay the Contractor the amounts certified by the Project Manager within 28 days of the date of each certificate. If the Employer makes a late payment, the Contractor shall be paid interest on the late payment in the next payment. Interest shall be calculated from the date by which the payment should have been made up to the date when the late payment is made at the prevailing rate of interest for commercial borrowing for each of the currencies in which payments are made.

45.2 If an amount certified is increased in a later certificate or as a result of an award by the Adjudicator or an Arbitrator, the Contractor shall be paid interest upon the delayed payment as set out in this clause. Interest shall be calculated from the date upon which the increased amount would have been certified in the absence of dispute.

45.3 Unless otherwise stated, all payments and deductions shall be paid or charged in the proportions of currencies comprising the Contract Price.

45.4 Items of the Works for which no rate or price has been entered in shall not be paid for by the Employer and shall be deemed covered by other rates and prices in the Contract.

46. Compensation Events

46.1 The following shall be Compensation Events:

(a) The Employer does not give access to a part of the Site by the Site Possession Date pursuant to GCC Sub-Clause 20.1.

(b) The Employer modifies the Schedule of Other Contractors in a way that affects the work of the Contractor under the Contract.

(c) The Project Manager orders a delay or does not issue Drawings, Specifications, or instructions required for execution of the Works on time.

(d) The Project Manager instructs the Contractor to uncover or to carry out additional tests upon work, which is then found to have no Defects.

(e) The Project Manager unreasonably does not approve a subcontract to be let.

(f) Ground conditions are substantially more adverse than could reasonably have been assumed before issuance of the Letter of Acceptance from the information issued to bidders (including the Site Investigation Reports), from information available publicly and from a visual inspection of the Site.

(g) The Project Manager gives an instruction for dealing with an unforeseen condition, caused by the Employer, or additional work required for safety or other reasons.

(h) Other contractors, public authorities, utilities, or the Employer does not work within the dates and other constraints stated in the Contract, and they cause delay or extra cost to the Contractor.

(i) The advance payment is delayed.

(j) The effects on the Contractor of any of the Employer's Risks.

(k) The Project Manager unreasonably delays issuing a Certificate of Completion.

46.2 If a Compensation Event would cause additional cost or would prevent the work being completed before the Intended Completion Date, the Contract Price shall be increased and/or the Intended Completion Date shall be extended. The Project Manager shall decide whether and by how much the Contract Price shall be increased and whether and by how much the Intended Completion Date shall be extended.

46.3 As soon as information demonstrating the effect of each Compensation Event upon the Contractor's forecast cost has been provided by the Contractor, it shall be assessed by the Project Manager, and the Contract Price shall be adjusted

accordingly. If the Contractor's forecast is deemed unreasonable, the Project Manager shall adjust the Contract Price based on the Project Manager's own forecast. The Project Manager shall assume that the Contractor shall react competently and promptly to the event.

46.4 The Contractor shall not be entitled to compensation to the extent that the Employer's interests are adversely affected by the Contractor's not having given early warning or not having cooperated with the Project Manager.

47. Tax

47.1 The Project Manager shall adjust the Contract Price if taxes, duties, and other levies are changed between the date 28 days before the submission of bids for the Contract and the date of the last Completion certificate. The adjustment shall be the change in the amount of tax payable by the Contractor, provided such changes are not already reflected in the Contract Price or are a result of GCC Clause 49.

48. Currencies

48.1 Where payments are made in currencies other than the currency of the Employer's country **specified in the PCC,** the exchange rates used for calculating the amounts to be paid shall be the exchange rates stated in the Contractor's Bid.

49. Price Adjustment

49.1 Prices shall be adjusted for fluctuations in the cost of inputs only if **provided for in the PCC.** If so provided, the amounts certified in each payment certificate, before deducting for Advance Payment, shall be adjusted by applying the respective price adjustment factor to the payment amounts due in each currency. A separate formula of the type specified below applies to each Contract currency:

$$\mathbf{P_c = A_c + B_c\ Imc/Ioc}$$

where:

P_c is the adjustment factor for the portion of the Contract Price payable in a specific currency "c."

A_c and B_c are coefficients[16] **specified in the PCC,** representing the nonadjustable and adjustable portions, respectively, of the Contract Price payable in that specific currency "c;" and

Imc is the index prevailing at the end of the month being invoiced and Ioc is the index prevailing 28 days before Bid

[16] The sum of the two coefficients A_c and B_c should be 1 (one) in the formula for each currency. Normally, both coefficients shall be the same in the formulae for all currencies, since coefficient A, for the nonadjustable portion of the payments, is a very approximate figure (usually 0.15) to take account of fixed cost elements or other nonadjustable components. The sum of the adjustments for each currency are added to the Contract Price.

opening for inputs payable; both in the specific currency "c."

49.2 If the value of the index is changed after it has been used in a calculation, the calculation shall be corrected and an adjustment made in the next payment certificate. The index value shall be deemed to take account of all changes in cost due to fluctuations in costs.

50. Retention

50.1 The Employer shall retain from each payment due to the Contractor the proportion **stated in the PCC** until Completion of the whole of the Works.

50.2 Upon the issue of a Certificate of Completion of the Works by the Project Manager, in accordance with GCC Sub-Clause 57.1, half the total amount retained shall be repaid to the Contractor and half when the Defects Liability Period has passed and the Project Manager has certified that all Defects notified by the Project Manager to the Contractor before the end of this period have been corrected. The Contractor may substitute retention money with an "on demand" Bank guarantee.

51. Liquidated Damages

51.1 The Contractor shall pay liquidated damages to the Employer at the rate per day **stated in the PCC** for each day that the Completion Date is later than the Intended Completion Date. The total amount of liquidated damages shall not exceed the amount **defined in the PCC.** The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor's liabilities.

51.2 If the Intended Completion Date is extended after liquidated damages have been paid, the Project Manager shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate. The Contractor shall be paid interest on the overpayment, calculated from the date of payment to the date of repayment, at the rates specified in GCC Sub-Clause 45.1.

52. Bonus

52.1 The Contractor shall be paid a Bonus calculated at the rate per calendar day **stated in the PCC** for each day (less any days for which the Contractor is paid for acceleration) that the Completion is earlier than the Intended Completion Date. The Project Manager shall certify that the Works are complete, although they may not be due to be complete.

53. Advance Payment

53.1 The Employer shall make advance payment to the Contractor of the amounts **stated in the PCC** by the date **stated in the PCC,** against provision by the Contractor of an Unconditional Bank Guarantee in a form and by a bank acceptable to the Employer

in amounts and currencies equal to the advance payment. The Guarantee shall remain effective until the advance payment has been repaid, but the amount of the Guarantee shall be progressively reduced by the amounts repaid by the Contractor. Interest shall not be charged on the advance payment.

53.2 The Contractor is to use the advance payment only to pay for Equipment, Plant, Materials, and mobilization expenses required specifically for execution of the Contract. The Contractor shall demonstrate that advance payment has been used in this way by supplying copies of invoices or other documents to the Project Manager.

53.3 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, price adjustments, Compensation Events, Bonuses, or Liquidated Damages.

54. Securities

54.1 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 **specified in the PCC,** by a bank or surety acceptable to the Employer, and denominated in the types and proportions of the currencies in which the Contract Price is payable. 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, and until one year from the date of issue of the Certificate of Completion in the case of a Performance Bond.

55. Dayworks

55.1 If applicable, the Dayworks rates in the Contractor's Bid shall be used only when the Project Manager has given written instructions in advance for additional work to be paid for in that way.

55.2 All work to be paid for as Dayworks shall be recorded by the Contractor on forms approved by the Project Manager. Each completed form shall be verified and signed by the Project Manager within two days of the work being done.

55.3 The Contractor shall be paid for Dayworks subject to obtaining signed Dayworks forms.

56. Cost of Repairs

56.1 Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Correction periods shall be remedied by the Contractor at the Contractor's cost if the loss or damage arises from the Contractor's acts or omissions.

E. Finishing the Contract

57. Completion

57.1 The Contractor shall request the Project Manager to issue a Certificate of Completion of the Works, and the Project Manager shall do so upon deciding that the whole of the Works is completed.

58. Taking Over

58.1 The Employer shall take over the Site and the Works within seven days of the Project Manager's issuing a certificate of Completion.

59. Final Account

59.1 The Contractor shall supply the Project Manager with a detailed account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Project Manager shall issue a Defects Liability Certificate and certify any final payment that is due to the Contractor within 56 days of receiving the Contractor's account if it is correct and complete. If it is not, the Project Manager shall issue within 56 days a schedule that states the scope of the corrections or additions that are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Project Manager shall decide on the amount payable to the Contractor and issue a payment certificate.

60. Operating and Maintenance Manuals

60.1 If "as built" Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates **stated in the PCC.**

60.2 If the Contractor does not supply the Drawings and/or manuals by the dates **stated in the PCC** pursuant to GCC Sub-Clause 60.1**,** or they do not receive the Project Manager's approval, the Project Manager shall withhold the amount **stated in the PCC** from payments due to the Contractor.

61. Termination

61.1 The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract.

61.2 Fundamental breaches of Contract shall include, but shall not be limited to, the following:

(a) the Contractor stops work for 28 days when no stoppage of work is shown on the current Program and the stoppage has not been authorized by the Project Manager;

(b) the Project Manager instructs the Contractor to delay the progress of the Works, and the instruction is not withdrawn within 28 days;

(c) the Employer or the Contractor is made bankrupt or goes into liquidation other than for a reconstruction or amalgamation;

(d) a payment certified by the Project Manager is not paid by the Employer to the Contractor within 84 days of the date of the Project Manager's certificate;

(e) the Project Manager 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 Project Manager;

(f) the Contractor does not maintain a Security, which is required;

(g) 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, as **defined in the PCC**; or

(h) if the Contractor, in the judgment of the Employer has engaged in Fraud and Corruption, as defined in paragraph 2.2 a of the Appendix A to the GCC, in competing for or in executing the Contract, then the Employer may, after giving fourteen (14) days written notice to the Contractor, terminate the Contract and expel him from the Site.

61.3 Notwithstanding the above, the Employer may terminate the Contract for convenience.

61.4 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.

61.5 When either party to the Contract gives notice of a breach of Contract to the Project Manager for a cause other than those listed under GCC Sub-Clause 61.2 above, the Project Manager shall decide whether the breach is fundamental or not.

62. Payment upon Termination

62.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Project Manager shall issue a certificate for the value of the work done 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 **specified in the PCC.** 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.

62.2 If the Contract is terminated for the Employer's convenience or because of a fundamental breach of Contract by the Employer, the Project Manager shall issue a certificate for the value of the work done, Materials ordered, 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.

63. Property

63.1 All Materials on the Site, Plant, Equipment, Temporary Works, and Works shall be deemed to be the property of the Employer if the Contract is terminated because of the Contractor's default.

64. Release from Performance

64.1 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 Project Manager 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 and shall be paid for all work carried out before receiving it and for any work carried out afterwards to which a commitment was made.

65. Suspension of Bank Loan or Credit

65.1 In the event that the Bank suspends the Loan or Credit to the Employer, from which part of the payments to the Contractor are being made:

(a) The Employer is obligated to notify the Contractor of such suspension within 7 days of having received the Bank's suspension notice.

(b) If the Contractor has not received sums due to it within the 28 days for payment provided for in GCC Sub-Clause 45.1, the Contractor may immediately issue a 14-day termination notice.

APPENDIX A
TO GENERAL CONDITIONS

Fraud and Corruption
(Text in this Appendix 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 misprocurement, 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;[17] (ii) to be a nominated[18] 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[19] 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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17 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.

18 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.

19 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.

APPENDIX B

Environmental and Social (ES) Metrics for Progress Reports

[Note to Employer: the following metrics may be amended to reflect the specifics of the Contract. The Employer shall ensure that the metrics provided are appropriate for the Works and impacts/key issues identified in the environmental and social assessment]

Metrics for regular reporting:

a. environmental incidents or non-compliances with contract requirements, including contamination, pollution or damage to ground or water supplies;

b. health and safety incidents, accidents, injuries that require treatment and all fatalities;

c. interactions with regulators: identify agency, dates, subjects, outcomes (report the negative if none);

d. status of all permits and agreements:

i. work permits: number required, number received, actions taken for those not received;

ii. status of permits and consents:

- list areas/facilities with permits required (quarries, asphalt & batch plants), dates of application, dates issued (actions to follow up if not issued), dates submitted to resident engineer (or equivalent), status of area (waiting for permits, working, abandoned without reclamation, decommissioning plan being implemented, etc.);
- list areas with landowner agreements required (borrow and spoil areas, camp sites), dates of agreements, dates submitted to resident engineer (or equivalent);
- identify major activities undertaken in each area in the reporting period and highlights of environmental and social protection (land clearing, boundary marking, topsoil salvage, traffic management, decommissioning planning, decommissioning implementation);
- for quarries: status of relocation and compensation (completed, or details of activities and current status in the reporting period).

e. health and safety supervision:

i. safety officer: number days worked, number of full inspections & partial inspections, reports to construction/project management;

ii. number of workers, work hours, metric of PPE use (percentage of workers with full personal protection equipment (PPE), partial, etc.), worker violations observed (by type of violation, PPE or otherwise), warnings given, repeat warnings given, follow-up actions taken (if any);

f. worker accommodations:

i. number of expats housed in accommodations, number of locals;

ii. date of last inspection, and highlights of inspection including status of accommodations' compliance with national and local law and good practice, including sanitation, space, etc.;

iii. actions taken to recommend/require improved conditions, or to improve conditions.

g. Health services: provider of health services, information and/or training, location of clinic, number of non-safety disease or illness treatments and diagnoses (no names to be provided);

h. gender (for expats and locals separately): number of female workers, percentage of workforce, gender issues raised and dealt with (cross-reference grievances or other sections as needed);

i. training:

i. number of new workers, number receiving induction training, dates of induction training;

ii. number and dates of toolbox talks, number of workers receiving Occupational Health and Safety (OHS), environmental and social training;

iii. number and dates of communicable diseases (including STDs) sensitization and/or training, no. workers receiving training (in the reporting period and in the past); same questions for gender sensitization, flag person training.

iv. number and date of SEA and SH prevention sensitization and/or training events, including number of workers receiving training on Code of Conduct for Contractor's Personnel (in the reporting period and in the past), etc.

j. environmental and social supervision:

i. environmentalist: days worked, areas inspected and numbers of inspections of each (road section, work camp, accommodations, quarries, borrow areas, spoil areas, swamps, forest crossings, etc.), highlights of activities/findings (including violations of environmental and/or social best practices, actions taken), reports to environmental and/or social specialist/construction/site management;

ii. sociologist: days worked, number of partial and full site inspections (by area: road section, work camp, accommodations, quarries, borrow areas, spoil areas, clinic, HIV/AIDS center, community centers, etc.), highlights of activities (including violations of environmental and/or social requirements observed, actions taken), reports to environmental and/or social specialist/construction/site management; and

iii. community liaison person(s): days worked (hours community center open), number of people met, highlights of activities (issues raised, etc.), reports to environmental and/or social specialist /construction/site management.

k. *Grievances*: list new grievances (e.g. number of allegations of SEA and SH) received in the reporting period and number of unresolved past grievances by date received, complainant's age and sex, how received, to whom referred to for action, resolution and date (if completed), data resolution reported to complainant, any required follow-up (Cross-reference other sections as needed):

i. Worker grievances;

ii. Community grievances

l. *Traffic, road safety and vehicles/equipment:*

i. traffic and road safety incidents and accidents involving project vehicles & equipment: provide date, location, damage, cause, follow-up;

ii. traffic and road safety incidents and accidents involving non-project vehicles or property (also reported under immediate metrics): provide date, location, damage, cause, follow-up;

iii. overall condition of vehicles/equipment (subjective judgment by environmentalist); non-routine repairs and maintenance needed to improve safety and/or environmental performance (to control smoke, etc.).

m. *Environmental mitigations and issues (what has been done):*

i. dust: number of working bowsers, number of waterings/day, number of complaints, warnings given by environmentalist, actions taken to resolve; highlights of quarry dust control (covers, sprays, operational status); % of rock/ spoil lorries with covers, actions taken for uncovered vehicles;

ii. erosion control: controls implemented by location, status of water crossings, environmentalist inspections and results, actions taken to resolve issues, emergency repairs needed to control erosion/sedimentation;

iii. quarries, borrow areas, spoil areas, asphalt plants, batch plants: identify major activities undertaken in the reporting period at each, and highlights of environmental and social protection: land clearing, boundary marking, topsoil

salvage, traffic management, decommissioning planning, decommissioning implementation;

iv. blasting: number of blasts (and locations), status of implementation of blasting plan (including notices, evacuations, etc.), incidents of off-site damage or complaints (cross-reference other sections as needed);

v. spill clean-ups, if any: material spilled, location, amount, actions taken, material disposal (report all spills that result in water or soil contamination;

vi. waste management: types and quantities generated and managed, including amount taken offsite (and by whom) or reused/recycled/disposed on-site;

vii. details of tree plantings and other mitigations required undertaken in the reporting period;

viii. details of water and swamp protection mitigations required undertaken in the reporting period.

n. compliance:

i. compliance status for conditions of all relevant consents/permits, for the Work, including quarries, etc.): statement of compliance or listing of issues and actions taken (or to be taken) to reach compliance;

ii. compliance status of C-ESMP/ESIP requirements: statement of compliance or listing of issues and actions taken (or to be taken) to reach compliance

iii. compliance status of SEA and SH prevention and response action plan: statement of compliance or listing of issues and actions taken (or to be taken) to reach compliance

iv. compliance status of Health and Safety Management Plan re: statement of compliance or listing of issues and actions taken (or to be taken) to reach compliance

v. other unresolved issues from previous reporting periods related to environmental and social: continued violations, continued failure of equipment, continued lack of vehicle covers, spills not dealt with, continued compensation or blasting issues, etc. Cross-reference other sections as needed.

Section IX - Particular Conditions of Contract

Except where otherwise specified, all Particular Conditions of Contract should be filled in by the Employer prior to issuance of the bidding document. Schedules and reports to be provided by the Employer should be annexed.

<table>
<tr><th colspan="2">A. General</th></tr>
<tr><td>GCC 1.1 (d)</td><td>The financing institution is: The World Bank</td></tr>
<tr><td>GCC 1.1 (r)</td><td>The Employer is: BFDA, MoH, Thimphu Bhutan and the authorized personnel is Mr. Sherub Gyeltshen, Project Manager, PMU</td></tr>
<tr><td>GCC 1.1 (v)</td><td>The Intended Completion Date for the whole of the Works shall be Two (2) Years</td></tr>
<tr><td>GCC 1.1 (y)</td><td>The Project Manager is Mr. Chador Wangdi, Specialist III, BFDA, MoH</td></tr>
<tr><td>GCC 1.1 (aa)</td><td>The Site is located: Phuentsholing, Chhukha Bhutan</td></tr>
<tr><td>GCC 1.1 (dd)</td><td>The Start Date shall be 10 (Ten) days from the date of possessing of site.</td></tr>
<tr><td>GCC 1.1 (hh)</td><td>The Works consist of
1. Construction of S+G+3+J storied building
2. Electrical Works
3. Installation of elevator</td></tr>
<tr><td>GCC 2.2</td><td>Sectional Completions are: None</td></tr>
<tr><td>GCC 2.3(i)</td><td>The following documents also form part of the Contract:
<table>
<tr><th>SN</th><th>Document</th><th>Description of the document</th></tr>
<tr><td>1</td><td>Construction Methodology</td><td>Construction methodology given in bid and/ or amended as per comments of the Employer given in letter of acceptance.</td></tr>
<tr><td>2</td><td>Quality Control</td><td>Quality control procedures and assurance plans given in the bid and/ or amended as per comments of the Employer in letter of acceptance.</td></tr>
<tr><td>3</td><td>Environment and Social Metrics-Appendix B</td><td>Contractor shall comply to the Environment and Social metrics given in the bid and/ or amended as per the comments of the Employer in the letter of acceptance.</td></tr>
</table></td></tr>
</table>

GCC 3.1	The language of the contract is **English** The law that applies to the Contract is the **law of the Kingdom of Bhutan**
GCC 5.1	The Project manager ***may*** delegate any of his duties and responsibilities.
GCC 8.1	Schedule of other contractors: **None**
GCC 13.1	The minimum insurance amounts and deductibles shall be: (a) for loss or damage to the Works, Plant and Materials: ***110% of the Accepted Contract Amount and maximum deductibles as per the insurance policy.*** (b) For loss or damage to Equipment: **100% of the Net Book value and maximum deductibles *as per the insurance policy.*** (c) for loss or damage to property (except the Works, Plant, Materials, and Equipment) in connection with Contract: **Amount and maximum deductibles *as per the insurance policy.*** (d) for personal injury or death: (i) of the Contractor's employees: **In accordance with the statutory requirements applicable in Bhutan**. (ii) of other people: ***In accordance with the statutory requirements applicable in Bhutan and amount as permissible under the policy.***
GCC 14.1	Site Data are: **As per technical requirements and drawings**
GCC 20.1	The Site Possession Date(s) shall be: **On the date of commencement**
GCC 23.1 & GCC 23.2	Appointing Authority for the Adjudicator: **As per the Alternative Dispute Resolution Act 2013 and its Rules and Regulations 2019 (To be discussed with Bhutan Arbitration Resolution Centre)**
GCC 24.3	**Hourly rate and types of reimbursable expenses to be paid to the Adjudicator: is mutually agreed before the commencement of the arbitration proceedings.**
GCC 24.4	Any dispute, controversy, or claim arising out of or relating to this Contract, or breach, termination, or invalidity thereof, shall be settled by arbitration in accordance with the **Alternative Dispute Resolution Act of Bhutan 2013 and its Rules and Regulations 2019 as at present in force.**
B. Time Control	

GCC 30.1	The Contractor shall submit for approval a Program including Environment Management Plan and ESHS-MSIP for the Works (in such for, and detail as the Project Manager shall reasonably prescribe) within 14 (fourteen) days from the date of the Letter of Acceptance.
GCC 30.3	The period between Program updates is **30 (Thirty) days.** The amount to be withheld for late submission of an updated Program is **Not Applicable** The period for submission of progress reports is 14 (Fourteen) days
C. Quality Control	
GCC 38.1	The Defects Liability Period is: **12 months from the Date of handover of the site.**
D. Cost Control	
GCC 42.7	**Not Applicable**
GCC 48.1	The currency of the Employer's Country is: **Bhutanese Ngultrum (Nu.)**
GCC 49.1	The Contract *is* subject to price adjustment in accordance with **GCC Clause 45.**
GCC 50.1	The proportion of payments retained is: **10% of the invoiced amount. until Completion of the whole of the Works.**
GCC 51.1	The liquidated damages for the whole of the Works are **0.10% of the final Contract Price per day of delay.** The maximum amount of liquidated damages for the whole of the Works is 10% of the final Contract Price.
GCC 52.1	**The Bonus is Not Applicable**
GCC 53.1	The amount of the advance payments is: **20% of the Contract Price** on submission of unconditional Bank Guarantee and after obtaining confirmation from the issuing bank. The above Advance Payments shall be paid to the Contractor no later than 30 days after fulfillment of the above conditions Repayment of advance payment The advance shall be repaid with percentage deductions from the interim payments certified by the Project Manager of the Contract. Deductions shall commence in the next Interim Payment Certificate following that in which total of all such payments to the contractor has reached not less than 25% of the Contract Price or twelve months from the date of payment of first

	installment of advance, whichever period concludes earlier, and shall be made at the rate of 25% of the amounts of all Interim Payment Certificates until such time as the advance has been repaid.
GCC 54.1	An Environmental and Social (ES) Performance Security **shall not** be provided to the Employer.
GCC 54.1	The Performance Security amount is **10 (ten) %.** (a) Performance Security – unconditional Bank Guarantee: in the amount(s) of 10% of the Accepted Contract Amount and in the same currency(ies) of the Accepted Contract Amount valid until 30 days beyond the date of completion time.
E. Finishing the Contract	
GCC 60.1	The date by which "as built" drawings consisting of 1 set of hard copy as well as soft copy shall be submitted within 30 days from the issuance of certificate of completion of whole of the Work.
GCC 60.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required in GCC Sub-Clause 60.1 is 1 (one) % of the Final Contract Price.
GCC 61.2 (g)	The maximum number of days is: **100 (one hundred)**
GCC 62.1	The percentage to apply to the value of the work not completed, representing the Employer's additional cost for completing the Works, is **20 (twenty) %.**

Section X - Contract Forms

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Notification of Intention to Award

[*This Notification of Intention to Award shall be sent to each Bidder that submitted a Bid.*]

[*Send this Notification to the Bidder's Authorized Representative named in the Bidder Information Form*]
For the attention of Bidder's Authorized Representative
Name: *[insert Authorized Representative's name]*
Address: *[insert Authorized Representative's Address]*
Telephone/Fax numbers: *[insert Authorized Representative's telephone/fax numbers]*
Email Address: *[insert Authorized Representative's email address]*

[IMPORTANT: insert the date that this Notification is transmitted to Bidders. The Notification must be sent to all Bidders simultaneously. This means on the same date and as close to the same time as possible.]
DATE OF TRANSMISSION: This Notification is sent by: [*email/fax*] on [*date*] (local time)

Notification of Intention to Award
Employer: *[insert the name of the Employer]*
Project: *[insert name of project]*
Contract title: *[insert the name of the contract]*
Country: *[insert country where RFB is issued]*
Loan No. /Credit No. / Grant No.: *[insert reference number for loan/credit/grant]*
RFB No: *[insert RFB reference number from Procurement Plan]*

This Notification of Intention to Award (Notification) notifies you of our decision to award the above contract. The transmission of this Notification begins the Standstill Period. During the Standstill Period, you may:

a) request a debriefing in relation to the evaluation of your Bid, and/or

b) submit a Procurement-related Complaint in relation to the decision to award the contract.

1. The successful Bidder

Name:	[*insert name of successful Bidder*]
Address:	[*insert address of the successful Bidder*]
Contract price:	[*insert contract price of the successful Bid*]

2. Other Bidders ***[INSTRUCTIONS: insert names of all Bidders that submitted a Bid. If the Bid's price was evaluated include the evaluated price as well as the Bid price as read out.]***

Name of Bidder	Bid price	Evaluated Bid price (if applicable)
[*insert name*]	[*insert Bid price*]	[*insert evaluated price*]
[*insert name*]	[*insert Bid price*]	[*insert evaluated price*]
[*insert name*]	[*insert Bid price*]	[*insert evaluated price*]
[*insert name*]	[*insert Bid price*]	[*insert evaluated price*]
[*insert name*]	[*insert Bid price*]	[*insert evaluated price*]

3. Reason/s why your Bid was unsuccessful

[INSTRUCTIONS: State the reason/s why <u>this</u> Bidder's Bid was unsuccessful. Do NOT include: (a) a point by point comparison with another Bidder's Bid or (b) information that is marked confidential by the Bidder in its Bid.]

4. How to request a debriefing

DEADLINE: The deadline to request a debriefing expires at midnight on [*insert date*] (local time).

You may request a debriefing in relation to the results of the evaluation of your Bid. If you decide to request a debriefing your written request must be made within three (3) Business Days of receipt of this Notification of Intention to Award.

Provide the contract name, reference number, name of the Bidder, contact details; and address the request for debriefing as follows:

Attention: [*insert full name of person, if applicable*]

Title/position: [*insert title/position*]

Agency: [*insert name of Employer*]

Email address: [*insert email address*]

Fax number: [*insert fax number*] ***delete if not used***

If your request for a debriefing is received within the 3 Business Days deadline, we will provide the debriefing within five (5) Business Days of receipt of your request. If we are unable to provide the debriefing within this period, the Standstill Period shall be extended by five (5) Business Days after the date that the debriefing is provided. If this happens, we will notify you and confirm the date that the extended Standstill Period will end.

The debriefing may be in writing, by phone, video conference call or in person. We shall promptly advise you in writing how the debriefing will take place and confirm the date and time.

If the deadline to request a debriefing has expired, you may still request a debriefing. In this case, we will provide the debriefing as soon as practicable, and normally no later than fifteen (15) Business Days from the date of publication of the Contract Award Notice.

5. How to make a complaint

Period: Procurement-related Complaint challenging the decision to award shall be submitted by midnight, [*insert date*] (local time).

Provide the contract name, reference number, name of the Bidder, contact details; and address the Procurement-related Complaint as follows:

Attention: [*insert full name of person, if applicable*]

Title/position: [*insert title/position*]

Agency: [*insert name of Employer*]

Email address: [*insert email address*]

Fax number: [*insert fax number*] ***delete if not used***

At this point in the procurement process, you may submit a Procurement-related Complaint challenging the decision to award the contract. You do not need to have requested, or received, a debriefing before making this complaint. Your complaint must be submitted within the Standstill Period and received by us before the Standstill Period ends.

Further information:

For more information see the Procurement Regulations for IPF Borrowers (Procurement Regulations)[https://policies.worldbank.org/sites/ppf3/PPFDocuments/Forms/DispPage.aspx?docid=4005] (Annex III). You should read these provisions before preparing and submitting your complaint. In addition, the World Bank's Guidance "How to make a Procurement-related Complaint" [http://www.worldbank.org/en/projects-operations/products-and-services/brief/procurement-new-framework#framework] provides a useful explanation of the process, as well as a sample letter of complaint.

In summary, there are four essential requirements:

1. You must be an 'interested party'. In this case, that means a Bidder who submitted a Bid in this bidding process, and is the recipient of a Notification of Intention to Award.
2. The complaint can only challenge the decision to award the contract.
3. You must submit the complaint within the period stated above.

4. You must include, in your complaint, all of the information required by the Procurement Regulations (as described in Annex III).

6. Standstill Period

DEADLINE: The Standstill Period is due to end at midnight on [*insert date*] (local time).

The Standstill Period lasts ten (10) Business Days after the date of transmission of this Notification of Intention to Award.

The Standstill Period may be extended as stated in Section 4 above.

If you have any questions regarding this Notification, please do not hesitate to contact us.

On behalf of the Employer:

Signature: _____

Name: _____

Title/position: _____

Telephone: _____

Email: _____

Letter of Acceptance

[on letterhead paper of the Employer***]***

. . . . . ***[date]***. . . . . .

To: . . . . . ***[name and address of the Contractor]*** . . . . . .

Subject: . . . . . ***[Notification of Award Contract No]***. . . . . .

This is to notify you that your Bid dated . . . . ***[insert date] . .*** . . for execution of the . . . . . ***.[insert name of the contract and identification number, as given in the PCC]*** . . . . . for the Accepted Contract Amount of . . . . . ***.[insert amount in numbers and words and name of currency]***, as corrected and modified in accordance with the Instructions to Bidders is hereby accepted by our Agency.

You are requested to furnish (i) the Performance Security and an Environmental and Social (ES) Performance Security ***[Delete ES Performance Security if it is not required under the contract]*** within 28 days in accordance with the Conditions of Contract, using for that purpose the of the Performance Security Form and the ES Performance Security Form, ***[Delete reference to the ES Performance Security Form if it is not required under the contract]*** and (ii) the additional information on beneficial ownership in accordance with BDS ITB 47.1, within eight (8) Business days using the Beneficial Ownership Disclosure Form, included in Section X - Contract Forms, of the bidding document.
[Choose one of the following statements:]

We accept that _____***[insert the name of Adjudicator proposed by the Bidder]*** be appointed as the Adjudicator.

[or]

We do not accept that _____***[insert the name of the Adjudicator proposed by the Bidder]*** be appointed as the Adjudicator, and by sending a copy of this Letter of Acceptance to _____***[insert name of the Appointing Authority]***, the Appointing Authority, we are hereby requesting such Authority to appoint the Adjudicator in accordance with ITB 48.1 and GCC Sub-Clause 23.1.

Authorized Signature:

Name and Title of Signatory:

Name of Agency:

Attachment: Contract Agreement

Contract Agreement

THIS AGREEMENT made the . . . . . .day of . . . . . ., ..., between . . . . ***[name of the*** Employer***]***. . . . . (hereinafter "the Employer"), of the one part, and . . . . ***[name of the Contractor]***. . . . .(hereinafter "the Contractor"), of the other part:

WHEREAS the Employer desires that the Works known as . . . . . ***[name of the Contract]***. . . . .should be executed by the Contractor, and has accepted a Bid by the Contractor for the execution and completion of these Works and the remedying of any defects therein,

The Employer and the Contractor agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.

2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other Contract documents.

(a) the Letter of Acceptance

(b) the Letter of Bid

(c) the addenda Nos _____(if any)

(d) the Particular Conditions

(e) the General Conditions of Contract, including appendix;

(f) the Specifications

(g) the Drawings

(h) Bill of Quantities; [20] and

(i) any other document listed in the PCC as forming part of the Contract, but not limited to;

i. the ES Management Strategies and Implementation Plans**;** and

ii. Code of Conduct for Contractor's Personnel (ES).

3. In consideration of the payments to be made by the Employer to the Contractor as specified in this Agreement, the Contractor hereby covenants with the Employer to execute the Works and to remedy defects therein in conformity in all respects with the provisions of the Contract.

[20] In lump sum contracts, delete "Bill of Quantities" and replace with "Activity Schedule."

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 hereto have caused this Agreement to be executed in accordance with the laws of . . . . . ***[name of the borrowing country]***. . . . .on the day, month and year specified above.

Signed by:	Signed by: .....
for and on behalf of the Employer	for and on behalf the Contractor
in the presence of:	in the presence of: .....
Witness, Name, Signature, Address, Date	Witness, Name, Signature, Address, Date

Performance Security - Bank Guarantee

[Guarantor letterhead or SWIFT identifier code]
Beneficiary: *[insert name and Address of* Employer*]*

Date: _ *[Insert date of issue]*

PERFORMANCE GUARANTEE No.: *[Insert guarantee reference number]*
Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*
We have been informed that _ *[insert name of Contractor, which in the case of a joint venture shall be the name of the joint venture]* (hereinafter called "the Applicant") has entered into Contract No. *[insert reference number of the contract]* dated *[insert date]* with the Beneficiary, for the execution of _ *[insert name of contract and brief description of* Works*]* (hereinafter called "the Contract").
Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.
At the request of the Applicant, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of *[insert amount in figures]* (_____) *[insert amount in words]*,[211] such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its obligation(s) under the Contract, without the Beneficiary needing to prove or to show grounds for your demand or the sum specified therein.
This guarantee shall expire, no later than the …. Day of ……, 2… [222], and any demand for payment under it must be received by us at this office indicated above on or before that date.
This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

_____
[signature(s)]

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[211] *The Guarantor shall insert an amount representing the percentage of the Accepted Contract Amount specified in the Letter of Acceptance, less provisional sums, if any, and denominated either in the currency(ies) of the Contract or a freely convertible currency acceptable to the Beneficiary.*

[222] *Insert the date twenty-eight days after the expected completion date as described in GCC Sub-Clause 57.1. The Employer should note that in the event of an extension of this date for completion of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the Employer might consider adding the following text to the form, at the end of the penultimate paragraph: "The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months][one year], in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee."*

Advance Payment Security

Demand Guarantee

[Guarantor letterhead or SWIFT identifier code]
Beneficiary: *[Insert name and Address of* Employer*]*
Date: *[Insert date of issue]*
ADVANCE PAYMENT GUARANTEE No.: *[Insert guarantee reference number]*
Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

We have been informed that *[insert name of Contractor, which in the case of a joint venture shall be the name of the joint venture]* (hereinafter called "the Applicant") has entered into Contract No. *[insert reference number of the contract]* dated *[insert date]* with the Beneficiary, for the execution of *[insert name of contract and brief description of* Works*]* (hereinafter called "the Contract").
Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum *[insert amount in figures]* () *[insert amount in words]* is to be made against an advance payment guarantee.
At the request of the Applicant, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of *[insert amount in figures]* (_____) *[insert amount in words]*[231] upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating either that the Applicant:

(a) has used the advance payment for purposes other than the costs of mobilization in respect of the Works; or

(b) has failed to repay the advance payment in accordance with the Contract conditions, specifying the amount which the Applicant has failed to repay.

A demand under this guarantee may be presented as from the presentation to the Guarantor of a certificate from the Beneficiary's bank stating that the advance payment referred to above has been credited to the Applicant on its account number *[insert number]* at *[insert name and address of Applicant's bank]*..
The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Applicant as specified in copies of interim statements or payment certificates which shall be presented to us. This guarantee shall expire, at the latest, upon our receipt of a copy of the interim payment certificate indicating that ninety (90) percent of the Accepted Contract Amount, less provisional sums, has been certified for payment, or on the *[insert day]* day of *[insert month]*, 2 *[insert year]*,[242] whichever is earlier. Consequently,

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[231] *The Guarantor shall insert an amount representing the amount of the advance payment and denominated either in the currency(ies) of the advance payment as specified in the Contract, or in a freely convertible currency acceptable to the Employer.*

[242] *Insert the date twenty-eight days after the expected completion date as described in GCC Sub-Clause 57.1.. The Employer should note that in the event of an extension of the expected completion date, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee,*

any demand for payment under this guarantee must be received by us at this office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

_____

[signature(s)]

the Employer might consider adding the following text to the form, at the end of the penultimate paragraph: "The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months][one year], in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee."