

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

REQUEST FOR BIDS (RFB)
(One-Envelope Bidding Process without e-Procurement)

NATIONAL OPEN COMPETITIVE PROCUREMENT
RE-TENDER FOR CONSTRUCTION OF INTEGRATED COLD STORAGE AT SAMTSE
AND DAGANA DZONGKHAG

Date: 21st March 2023

RFB No. BT-MOAF-329319-CW-RFB & BT-MOAF-329342-CW-RFB

1. The Government of Bhutan has received financing from the World Bank toward the cost of the Food Security and Agriculture Productivity Project and intends to apply a part of the funds to cover eligible payments under the contracts for construction of works as detailed below. Bidding is open to all bidders from eligible source countries as defined in the "Procurement Regulations for IPF Borrowers, July 2016, revised August 2018" ("Procurement Regulations"). Bidders from Bhutan should, however, be registered with the Government of Bhutan. **Bidders are advised to note the minimum qualification criteria specified in Clause 3 of the Instructions to Bidders to qualify for the award of the contract.** In addition, please refer to paragraphs 3.14 and 3.15 of the "Procurement Regulations" setting forth the World Bank's policy on conflict of interest.
2. The Department of Agricultural Marketing & Cooperatives (DAMC), MoAL, Thimphu (Implementing Agency) invites sealed bids for the construction of works detailed in the table below. **The bidders are allowed to submit bids for both the package/works indicated therein.**
3. Interested eligible Bidders may obtain further information from the office of the DAMC, MoAL, Thimphu, Bhutan, during office hours.
4. A complete set of bidding document can be downloaded from the ministry's website, www.moal.gov.bt or www.damc.gov.bt free of cost.
5. Bids must be accompanied by a bid security of the amount specified for the work in the table below, drawn in favour of Director, DAMC, MoAL, Thimphu. Bid security will have to be in any one of the forms as specified in the bidding document and shall be valid for 30 days beyond the validity of the bid. Bids should be valid for 60 days after the deadline date specified for bid submission.
6. Bids must be delivered to DAMC, MoAL, Thimphu on or before 10.00 hours on April 05, 2023 and will be publicly opened on the same day at 10.30 hours, in the presence of the bidders who wish to attend. If the office happens to be closed on the date of receipt of the bids as specified, the bids will be received and opened on the next working day at the same time and venue. Late Bids will be rejected.
7. Other details can be seen in the bidding document.

TABLE

Package No.	Name of work	Bid Security (BTN.)	Period of completion
1	Construction of Integrated Cold Storage at Samtse Dzongkhag	BTN. 400,000.00	8 Months
2	Construction of Integrated Cold Storage at Dagana Dzongkhag	BTN. 300,000.00	8 Months

Seal of of

(Employe



Name: Kinlay Tshering (Ms.)
Address: Director, DAMC, MoAL, Thimphu
Tel.No: 17757240
Email: kinlaytshering@moal.gov.bt

Instructions to Bidders

SECTION - A

1. Scope of Works

The Department of Agricultural Marketing & Cooperatives (DAMC), MoAL, Thimphu (Employer) invites bids for the construction of works as detailed in the table given below

Package No.	Brief Description of the Works	Period of Completion
1	Construction of Integrated Cold Storage at Samtse Dzongkhag	8 Months
2	Construction of Integrated Cold Storage at Dagana Dzongkhag	8 Months

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

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

- a) total monetary value of construction works performed for each year of the last 5 years;
- b) Report on his financial standing; and
- c) Details of any litigation, current or during the last 3 years in which the bidder is involved, the parties concerned and disputed amount or awards in each case.

3. **To qualify for award of the contract (Package wise) the bidder:-**

- (a) should have satisfactorily completed as a prime contractor at least one similar work for the both the packages in the last five years (Pre-engineering and or Construction of Cold Storage). The bidder shall submit the performance certificate from the users certifying the satisfactory completion of the work.
- (b) should have achieved in at least five years an average annual financial turnover (Pre-engineering and or Construction of Cold Storage) of value not less than BTN 10.00 million (Ngultrum Ten Million) for Package 1 & BTN 6.00 million (Ngultrum Six Million) for Package 2 in the last five years;
- (c) should possess valid electrical license for executing building electrification works (in the event of the works being sub-contracted, the sub-contractor should have the necessary license) for both the Packages;

- (d) should not have been debarred or suspended on the date of bid opening by the World Bank Group.
- (e) no contract should have been suspended or terminated and/or performance security called by an employer(s) for reasons related to Environmental, Social (including sexual exploitation and abuse (SEA) and gender based violence (GBV)), Health, or Safety (ESHS) requirements or safeguards in the past five years.
- (g) availability of liquid assets and/or credit facilities, net of other contractual commitments and exclusive of any advance payments which may be made under the Contract, of not less than BTN 7.00 million (Ngultrum Seven Million) for Package 1 & BTN 5.00 million (Ngultrum Five Million) for Package 2.

3.1 Eligibility - Conflict of Interest*

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

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

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

4. Bid Price

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

- d) The Bidder shall fill in the prices for the Works in conformity with the Bidding Documents, both in figures and words.

5. Clarification of Bidding Documents

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

6. Amendment of Bidding Documents

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

7 Submission of Bids

- 7.1 The bidder is advised to visit the site of works at his own expense and obtain all information that may be necessary for preparing the bid.
- 7.2 Bidders are allowed to quote for both the Packages and can submit the bid for both the packages. Bidders should not contact other competing bidders in matters relating to this bid.
- 7.3 The set of bidding document comprise of the following:
 - i. Layout Drawings of the works;
 - ii. Structural Details;
 - iii. Bill of Quantities & Technical Specifications;
 - v. Instructions to Bidders; and
 - vi. Draft Contract Agreement format which will be used for finalizing the agreement for this Contract.

7.4 The bid submitted by the bidder shall comprise the following:-

- (a) Bid in the format given in Section B.
- (b) Completed Bill of Quantities;
- (c) Qualification information form given in Section B duly completed.
- (d) Bidder's confirmation to comply with (i) the applicable Laws/ Rules/ Regulations for protection of environment, public health and safety; (ii) the regulatory authority conditions (if any) attached to any permits or approvals for the project; and (iii) the FSAPP Environmental and Social Impact Assessment (ESIA) and Environmental and Social Management Plan (ESMP) For Selected Civil Works to manage the Environmental, Social (including sexual exploitation and abuse (SEA) and gender based violence (GBV)), Health and Safety (ESHS) risks, and ESHS Code of Conduct, (if any prescribed by the Employer), that will apply to its employees and all subcontractors.
- (e) Bid Security, in original form for the amount BTN. 400,000.00 (Ngultrum Four Hundred Thousand) for Package 1 and BTN. 300,000.00 (Ngultrum Three Hundred Thousand) for Package 2, in one of the following forms:
 - A bank guarantee issued by a Nationalized/Scheduled bank located in Bhutan in the form given in Section B; or
 - Certified cheque or Bank draft payable to Director, DAMC, MoAL, Thimphu.
 - Fixed Deposit/Time Deposit certificates issued by a Nationalized/Scheduled Bank located in Bhutan for equivalent or higher values are acceptable provided it is pledged in favour of Director, DAMC, MoAL, Thimphu, and such pledging has been noted and suitably endorsed by the bank issuing the deposit certificate.

7.5 The bidder shall seal the bid in an envelope addressed to the Director, DAMC, MoAL, Thimphu (Employer).

The envelope will also bear the following identification:-

- RFB for Package 1- Construction of Integrated Cold Storage at Samtse Dzongkhag or Package 2- Construction of Integrated Cold Storage at Dagana Dzongkhag
- Do not open before 10.30 hours on 5th April 2023.

7.6 Bids must be received in the office of the Director, DAMC, MoAL, Thimphu (Employer) not later than the deadline for submission of bids specified in the RFB viz. time 10.00 hours and 5th April 2023. If the specified date is declared a holiday, bids shall be received up to the appointed time on the next working day.

7.7 Any bid received by the Director, DAMC, MoAL, Thimphu (Employer) after the deadline for submission of bids will be rejected and returned unopened to the bidder.

8. Validity of Bid

Bid shall remain valid for a period not less than 60 days after the deadline date specified for submission. If a Bidder withdraws/modifies/substitutes its bid during the period of bid validity specified by the Bidder on the Letter of Bid, the Bid Security may be forfeited.

9. Public Opening of Bids

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

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

11. Evaluation of Bids

11.1 Correction of Arithmetical Errors

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

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

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

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

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

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

- 11.4** To assist in the examination, evaluation and comparison of Bids, the Employer may, at the Employer's discretion, ask any Bidder for clarification of the Bidder's Bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing, including by electronic mail, but no change in the price or substance of the Bid shall be sought, offered or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Bids in accordance with ITB Clause 11.1.

12. Award of contract

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

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

13. Performance Security

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

14. Defects Liability:

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

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

16. Fraud and Corruption

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

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SECTION - B

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

QUALIFICATION INFORMATION

1 For Individual Bidders

1.1 Principal place of business: _____

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

1.2 Total value of Civil Engineering 20____ _____
 construction work performed in the last 20____ _____
 three years (in BTN. Lakhs) 20____ _____

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

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

Existing commitments and on-going works:

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

* Enclose a certificate from Engineer concerned.

1.4 Proposed subcontracts and firms involved.

Sections of the works	Value of Sub-contract	Sub-contractor (name & address)	Experience in similar work

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

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

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

Other party(ies)	Employer	Cause of dispute	Amount involved	Remarks showing present status

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

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

LETTER OF BID

RFB No:

Date of Bid Submission:

To:

Subject : Construction of
.....

Sir,

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

BTN.** _____ [in figures]

BTN. _____ [in words].

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

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

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

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

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

Yours faithfully,

Authorized Signature : _____ Date signed: _____

Name & Title of Signatory : _____

Name of Bidder : _____

Address : _____

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

**LETTER OF ACCEPTANCE
CUM NOTICE TO PROCEED WITH THE WORK**

(LETTERHEAD OF THE EMPLOYER)

Dated: _____

To : _____ [Name and address of the Contractor]

Dear Sirs,

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

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

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

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

Yours faithfully,

**Authorized Signature
Name and title of Signatory**

Draft Agreement form for Construction through Lump Sum Contract

ARTICLES OF AGREEMENT

1. This deed of agreement is made in the form of agreement on _____ day _____ month _____ 20 __, between the _____ (Employer) or his authorized representative (hereinafter referred to as the first party) and _____ (Name of the Contractor), S/O _____ resident of _____¹ (hereinafter referred to as the second party), to execute the work of construction of _____ (hereinafter referred to as works) on the following terms and conditions.

2. Cost of the Contract

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

3. Payments under the contract:

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

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

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

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

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

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

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

4. Notice by Contractor to Engineer

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

5. Completion time

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

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

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

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

8. Duties and responsibilities of the first party

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

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

9. Duties and responsibilities of the second party

9.1 The second party shall:

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

- j) maintain necessary insurance against loss of materials/cash, etc. or workman disability compensation claims of the personnel deployed on the works as well as third party claims from the start date to the end of defect liability period;
- k) pay all duties, taxes and other levies payable by construction agencies as per law under the contract (First party will effect deduction from running bills in respect of such taxes as may be imposed under the law);
- l) abide by the regulatory authority conditions (if any) attached to any permits or approvals for the project; and the FSAPP Environmental and Social Impact Assessment (ESIA) and Environmental and Social Management Plan (ESMP) For Selected Civil Works (August 2021), if any prescribed by the Employer;
- m) abide by all labour enactments and rules made there under, regulations, notifications and by-laws of the Government or local authorities;
- n) abide by all enactments on environmental protection and rules made there under, regulations, notifications and by-laws of the State or Central Government, or local authorities;
- o) be responsible for the safety of all activities on the Site.

10. Variations / Extra Items

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

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

11. Securities

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

12. Termination

- 12.1 The Employer may terminate the Contract if the other party causes a fundamental breach of the Contract.
- 12.2 Fundamental breaches of Contract include, but shall not be limited to the following:
- (a) the Contractor stops work for 28 days and the stoppage has not been authorized by the Engineer;
 - (b) the Contractor has become bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
 - (c) the Engineer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer;
 - (d) the Contractor does not maintain a security which is required;
 - (e) the Contractor has engaged in Fraud and Corruption as defined in Section C, in competing for or in executing the Contract; and
 - (f) the contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid
- 12.3 Notwithstanding the above, the Employer may terminate the Contract for convenience.
- 12.4 If the Contract is terminated the Contractor shall stop work immediately, make the Site safe and secure and leave the Site as soon as reasonably possible.

13. Payment upon Termination

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

14. Dispute settlement

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

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

15. Fraud and Corruption

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

BILL OF QUANTITIES & TECHNICAL SPECIFICATIONS

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

Sl.No.	Description of Work	Unit	Qty.

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

Signature of Contractor

Format of certificate

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

Signature
Name & Designation (Official

address)
Place:
Date:

Office seal

Drawings

Form of Bid Security - Bank Guarantee

[Guarantor letterhead or SWIFT identifier code]

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

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

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

KNOW ALL PEOPLE by these presents that We _____ *[name of bank]* of _____ *[name of country]* having our registered office at _____ (hereinafter called "the Bank") are bound unto _____ *[name of Employer]* (hereinafter called "the Employer") in the sum of _____³ for which payment well and truly to be made to the said Employer the Bank binds itself, his successors and assigns by these presents.

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

THE CONDITIONS of this obligation are:

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

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

This Guarantee will remain in force up to and including the date _____⁴ days after the deadline for submission of Bids as such deadline is stated in the Instructions to Bidders or as it

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

³ The Guarantor should insert the amount of the guarantee in words and figures denominated in ~~Bhutan#~~ RupeesNgultrum. This figure should be the same as shown in Clause 5.5 of the Instructions to Bidders.

⁴ 45 days after the end of the validity period of the Bid.

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

DATE _____ SIGNATURE OF THE BANK _____

WITNESS _____ SEAL _____

[signature, name, and address]

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

Performance Security - Bank Guarantee

[Guarantor letterhead or SWIFT identifier code]

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

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

To: _____ [name of Employer]
_____ [address of Employer]

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

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

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

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of _____ [amount of guarantee⁵] _____ [in words], such sum being payable in the types and proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of _____ [amount of guarantee] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

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

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

This guarantee shall be valid until (i.e.) 28 days after the date of issue of the Certificate of Completion, and any demand for payment under it must be received by us at this office on or before that date.

Signature and seal of the guarantor _____
Name of Bank _____
Address _____
Date _____

⁵ An amount shall be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract and denominated in Bhutan ~~Rs~~ Ngultrum ~~Rupees~~.

**Advance Payment Security
Demand Guarantee**

[Guarantor letterhead or SWIFT identifier code]

Advance Payment Guarantee No.....*[insert guarantee reference number]*
Date.....*[insert date of issue of the guarantee]*

To: _____ *[name of Employer]*
_____ *[address of Employer]*
_____ *[name of Contract]*

Gentlemen:

In accordance with the provisions of the Articles of Agreement, Sub-clause 3 ("Advance Payment") of the above-mentioned Contract, _____ *[name and address of Contractor]* (hereinafter called "the Contractor") shall deposit with _____ *[name of Employer]* a bank guarantee to guarantee his proper and faithful performance under the said Clause of the Contract in an amount of _____ *[amount of guarantee⁶]* _____ *[in words]*.

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

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

This guarantee shall remain valid and in full effect from the date of the advance payment under the Contract until _____ *[name of Employer]* receives full repayment of the same amount from the Contractor. Consequently any demand for payment under this guarantee must be received by us at this office on or before that date.

Yours truly,

Signature and seal: _____
Name of Bank: _____
Address: _____
Date: _____

_____ ⁶ An amount shall be inserted by the bank representing the amount of the Advance Payment, and denominated in Bhutan Ngultrum.

Retention Money Security

Demand Guarantee

[Guarantor letterhead or SWIFT identifier code]

_____ [Bank's name and address of issuing branch or office]

Beneficiary: _____ [Name and Address of Employer]

Date: _____

RETENTION MONEY GUARANTEE NO.: _____

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

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

At the request of the contractor, we _____ [name of Bank] hereby irrevocably undertake to pay you the sum or sums not exceeding in total an amount of _____ [amount in Ngultrum] (_____) [amount in words⁷] upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation under the Contract without cavil or argument.

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

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

[Signature(s) and seal of the guarantor]

⁷ The Guarantor shall insert an amount representing the amount of the second half of the Retention Money.

Section C. Fraud and Corruption

(Text in this Section shall not be modified)

1. Purpose

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

2. Requirements

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

2.2 To this end, the Bank:

a. Defines, for the purposes of this provision, the terms set forth below as follows:

i. "corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;

ii. "fraudulent practice" is any act or omission, including misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;

iii. "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;

iv. "coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;

v. "obstructive practice" is:

(a) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive, or collusive practice; and/or threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or

(b) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under paragraph 2.2 e. below.

b. Rejects a proposal for award if the Bank determines that the firm or individual recommended for award, any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/ or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;

- c. In addition to the legal remedies set out in the relevant Legal Agreement, may take other appropriate actions, including declaring 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;⁸ (ii) to be a nominated⁹ 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 inspect¹⁰ 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.

⁸ 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.

⁹ 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.

¹⁰ 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.

Annexure-1

Package 1: Supply, Installation and Commissioning of Cold Store Machinerics at Samtse Dzongkhag

S/No.	Description	Qty.	Unit	Rate (BTN)	Amount (BTN)
Wall systems for Cold room					
1	Providing & fixing 75mm thickness wall panel PUF (PP/PP) insulated wall with PPGI lamination 0.5mm thick on both sides for walls, with press injected eco friendly Cyclopentane Rigid Polyurethane (PUF) foam core density 40- 42 kg/cu.m incorporating a tongue and groove joints with cam lock fixing system including providing & fixing internal & external PP flashings with fasteners & U-Profile & Silicon Sealants-white complete. The puff panel should be cut properly for opening window in warehouse; in Wall .	606.00	sq.m		
2	Providing & fixing 150mm thickness wall panel PUF (PP/PP) insulated wall with PPGI lamination 0.5mm thick on both sides for walls, with press injected eco friendly Cyclopentane Rigid Polyurethane (PUF) foam core density 40- 42 kg/cu.m incorporating a tongue and groove joints with cam lock fixing system including providing & fixing internal & external PP flashings with fasteners & U-Profile & Silicon Sealants-white complete. The puff panel should be cut properly for opening window in warehouse; in Wall .	78.00	sq.m		
3	Accessories for PU panel (nails etc.)	1,152.00	sq.m		
4	Self drilling screws	5,920.00	Pcs		
5	Rivets (Pop, Aluminium, steel rivets)	8.00	box		
6	Glue	4.00	box		
7	Wall panel	342.00	sq.m		
8	Providing & fixing Sliding door (2850 x 2100 mm) 2 units.	12.00	sq.m		
9	Canopy (0.5mm thickness steel sheet)	16.00	sq.m		
10	Door for Cold storage room (1850 x 850 mm) 10 unit	15.80	sq.m		
Roofing system					
1	Providing and fixing PU ceiling panel (75 mm thickness) PU sandwich panel.	436.00	sq.m		
2	Providing and fixing PU ceiling panel (150 mm thickness) PU sandwich panel.	32.00	sq.m		
3	Providing and fixing roof panel (0.5mm thickness) steel sheet	494.00	sq.m		
4	Providing and fixing edge cover (0.5mm thickness)	186.00	sq.m		
Cooler Room (8 x 5 x 3.3m) 9 units					
1	Providing and fixing of Condensing unit: 1. With Original Semi hermetic/Scroll compressor, Horsepower: 6HP, 4EES-6Y 2. Voltage :380V/50HZ/3 Ph; 3. By R404a refrigerant gas 4. Cooling Capacity : 11.41kw ; Power consumption: 5.14kw 5. Evaporating SST: -10C, Condensing SDT: 40C Packing size: 1400*820*970	18.00	Set		
2	Providing and fixing of Evaporator unit: 1. Model: DL80 2. Fin Space: 4.5mm 3. Cooling Capacity: 16700w 4. Air Flow:2*6000m3/h 5.Heat exchange area: 80m2 Packing size:1900*750*890	18.00	Set		
3	Providing and fixing Control Panel box	18.00	Set		
4	Providing and fixing (Expansion Valve: Danfoss brand)	18.00	Set		
5	Providing and fixing Release window:	9.00	Set		
6	Providing and fixing Connecting pipes and power lines	18.00	Set		
7	Providing and fixing LED light explosion proof	36.00	Set		
Freezer room (8 x 4 x 3.3m) 1 unit					

1	Providing and fixing of Condensing unit 1. With Original Semi hermetic/Scroll compressor Horsepower: 9HP, 4TES9Y 2. Voltage :380V/50HZ/3 Ph; 3. By R404a refrigerant gas 4. Cooling Capacity : 7.76kw ; Power consumption: 5.38kw 5. Evaporating SST: -30C Condensing SDT: 40C Packing size: 1380*820*1110	2.00	Set		
2	Providing and fixing of Evaporator unit: 1. Model: DJ55 2. Fin Space: 9mm3. Cooling Capacity: 9800w 4. Air Flow:2*6000m3/h 5.Heat exchange area: 55m2 Packing size:1900*810*820	2.00	Set		
3	Providing and fixing Control Panel box	2.00	Set		
4	Providing and fixing (Expansion Valve: Danfoss brand)	2.00	Set		
5	Providing and fixing Release window:	1.00	Set		
6	Providing and fixing Connecting pipes and power lines	2.00	Set		
7	Providing and fixing LED light explosion proof	2.00	Set		
8	160 KVA water cooled Diesel Generator	1.00	No.		
	Maintenance tools				
1	Vacuum pump: Electric, Belt Drive Rotary Vane Pumps, Two stages, Industrial usage, Aluminium made.	1.00	No.		
2	Mobil Filter clamp: Chain type car strap socket wrench	1.00	No.		
3	Semi-auto folding rivet gun: standard size, multiple applicationsm aluminium alloy, 450g, imported.	1.00	No.		
4	Hand held riveter: Standard size, industrial usage, mild steel material, 412 g, Import	1.00	No.		
5	Pop rivets of various sizes (different sizes, 2.5mm-8mm, Aluminium material, Powder coated, multiple choices	500.00	no.		
6	Reinforced flat steps ladder	1.00	No.		
7	Hand drilling machine: 2.5 to 13 mm drill size, rpm: 300-2800	1.00	set		
8	Clamp multi meter: AC current: 2A/20A/200A/400A± (1.5%5), AC Voltage: 2V/20V/200V/600V ±(1.2%5), DC Voltage: 200mV/2V/20V/200V/600V ±(0.8%1), Resistance (o): O/20MO±(1%2), Display count: 2000	1.00	No.		
9	Swaging and flaring tool kit with box	1.00	No.		
10	Copper pipe bender (1/4"-1" sizes)	1.00	No.		
11	Tube cutters: Manual driver, size: 1/8"-11/8"	1.00	No.		
12	Guage manifold with hose pipe: Brass material all kind of gas pressure	1.00	No.		
13	Nitrogen cylinder with accessories: Mild steel nitrogen gas cylinder, 20MPa, 5-30 Ltrs with necessary hose fittings	1.00	No.		
14	LPG cylinder with accessories, for gas welding and brazing. With necessary hose	1	No.		
15	Vacuum pressure leakage temperature tester full kit	1.00	No.		
16	Industrial blow torch: gas blow torch flame thrower burner welding au	5.00	No.		
17	Flat screw driver	2.00	No.		
18	Phillip Screw Driver	2.00	No.		
19	Offset screwdrivers set: slotted phillips 3 pcs/IRIMO	1.00	set		
20	Machinist plier: 6 inch slip joint 19207/steelman tool	1.00	No.		
21	Vice grip, wire cutter, curved jaw 7-inch 702L3	1.00	No.		
22	Adjustable wrech: forged, heat treated chrome-plated, set of 4	1.00	set		
23	Long nose plier: set of three (2" max jaw opening, 8" overall length, 2	1.00	set		
24	Pipe wrench: 3 piece heavy duty with storage pouch (6",8",12")	1.00	set		
25	Tool box set: Auto combination tools wrench set batch head ratchet pawl, socket spinner, screwdriver, socket set, multifunction	1.00	set		

26	Nut driver: Hollow shaft nut driver Hex bit socket metric 7-14 mm metal	1.00	set		
27	Allen wrench key set: 0.028-3/8 inch, 7-10 mm	1.00	set		
28	Machinist vice: Bench vice 360-degree swivel base and head with Anvil 6"	1.00	No.		
29	Curved claw hammer: With fiberglass handle-16 oz	1.00	No.		
30	Mallet hammer: Plastic mallet (pack of 2)	1.00	set		
31	Coping saw: With 40 pcs replacement blades (62-105 mm throat depth)	1.00	set		
32	Zig zag folding ruler: vintage 6 foot ruler	1.00	No.		
33	C-clamp: Malleable iron, 3 piece, 1", 2" and 3"	1.00	No.		
34	Single cut file: Nicholson 5 piece general purpose hand file set or equivalent	1.00	No.		
35	Half round file: 6",8",10" and 12"	1.00	No.		
36	Waist tool bag: Leather waist tools carry bag (heavy duty)	3.00	set		
37	Spiral thread: HSS-M2 spiral metric tap and dye for stainless steel 6 mm to 14 mm	1.00	No.		
	Total Amount (Nu:)				

Package 1- Pre-fab Structure at Samtse Dzongkhag

Sl no	Particular	Specification	Qty.	Unit	Rate (BTN)	Amount (BTN)
1	Main Structure	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red [H shaped steel Q355B, alkyd painting or equivalent]	7.20	ton		
2	Roof purlin	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red [XZ160x60x20x2.2 or equivalent]	2.30	ton		
3	Wall purlin	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red [C220x75x20x2.5 or equivalent]	0.88	ton		
4	Wall purlin	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red [C140x50x20x2.5 or equivalent]	0.87	ton		
5	U channel	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red [75x40x2 or equivalent]	1.45	ton		
6	Ceiling frame	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red [C80x40x20x2 or equivalent]	1.36	ton		
7	Intensive bolt	Providing & fixing bolts (Threaded) of various sizes including nuts & washers [M20 or equivalent]	176.00	set		
8	Anchor bolt	Providing & fixing bolts (Threaded) of various sizes including nuts & washers [M24 or equivalent]	64.00	pcs		
9	Turnbuckle	Providing & fixing bolts (Threaded) of various sizes including nuts & washers [M20 or equivalent]	32.00	pcs		
10	Ordinary bolt	Providing & fixing bolts (Threaded) of various sizes including nuts & washers [M12 or equivalent]	2028.00	pcs		
11	Bolt for tie bar	Providing & fixing bolts (Threaded) of various sizes including nuts & washers [M16 or equivalent]	92.00	pcs		
12	Bolt for brace	Providing & fixing bolts (Threaded) of various sizes including nuts & washers [M20 or equivalent]	64.00	pcs		
13	Nut for batter brace	Providing & fixing bolts (Threaded) of various sizes including nuts & washers [M12 or equivalent]	776.00	pcs		
14	Angle brace	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red [L56x5 or equivalent]	0.60	ton		
15	Tie Bar	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red [D89x2.5 or equivalent]	0.67	ton		
16	Batter brace	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red [D12 or equivalent]	0.36	ton		
17	Draw bar for ceiling	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red [D10 or equivalent]	0.41	ton		
18	Ceiling accessories	Providing & fixing bolts (Threaded) of various sizes including nuts & washers	800.00	pcs		

19	Roof panel	Providing & fixing Pre Painted Galvalume (PPGL) Roofing sheets (Green colour), including 4" self drilling screw & washer , excluding the cost of purlins, rafter and trusses. 25g (0.50mm) of 550 MPA, including the side L flasing.	494.00	sqm		
20	Brace	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red [D20 or equivalent]	0.46	ton		
21	Sleeve tube	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red [D32x2.5 or equivalent]	0.12	ton		
22	Edge cover	0.5 mm thickness edge covers	186.00	Sqm		
		TOTAL AMOUNT				

Package 1: Electrification of Integrated Cold Store at Samtse

BSR CODE	Description	Nos	L(m)	W (m)	H (m)	QTY	UNIT	RATE	AMOUNT
	PVC Conduct								
A/R	Wiring for light, fan, call bell and 2 pin light socket outlet with 1.5 sqmm 1.1 kV grade, PVC casing and capping including connections, painting, testing & commissioning etc, as required.								
A/R	Short point	20				20	point		
A/R	Medium Point	15				15	Point		
A/R	Long point	10				10	Point		
	Supply of copper wire								
A/R	Wiring with 1.1kV grade, PVC insulated copper conductor cable in PVC casing & capping including connections, painting								
A/R	Copper wire 2.5 sqmm	300				300	meter		
A/R	copper wire 1.5 sqmm	200				200	meter		
A/R	copper wire 0.75 sqmm	100				100	meter		
	Switches and Sockets								
A/R	Supply and fixing of socket/regulator on existing PVC/metal/modulated tough surface box (recessed or surface) including necessary cutting, connection testing etc. as required. Dimmer/regulator	14				14	each		
	Indoor luminaries (Supply)								
	Indoor luminaries								
A/R	Supplying of prewired indoor LED tube light 18 watt	8				8	Each		
	Flood Light Luminaires								
	LAMPS								
A/R	Supply of LED flood light for each corner of the building (as compound light) 100w IP 64	4				4	Each		

	Control Gear & Busbar (supply)							
	Miniature circuit breaker (MCB)							
A/R	Supply of miniature circuit breaker (MCB) single pole, 230 volt A.C complete with all accessories suitable to fix on a din-bar etc. as required: 6A	9			9	Each		
	Control Gear & Busbar (supply)							
	miniature circuit breaker (MCB)							
A/R	Supply of miniature circuit breaker (MCB) single pole, 230 volt A.C complete with all accessories suitable to fix on a din-bar etc. as required:16A for internal supply for cold store rooms	5			5	Each		
	Control Gear & Busbar (supply)							
	Isolator							
A/R	Supply of loadkontak isolator double pole, 230volt A.C complete with all accessories suitable to fix on a din-bar etc. as required 40A	1			1	Each		
	control Gear & Busbar (supply)							
	Distribution Board (DB)							
A/R	Supply of SPN distribution board (DIN type) with acrylic door, 230 volt A.C complete with all accessories without MCB/isolator/RCCB out going or incoming etc as required: 16way	1			1	Each		
	Erection/Installation							
	Luminaries Installation/flood light							
A/R	Installation, testing and commissioning of pre-wired fluorescent & flood light fittings of all surface type complete with all accessories and tubes directly on ceiling/wall as required including connection with PVC insulated copper conductor: 1sq.mm single core cable 1.1 KV grade	14			14	Point		
	Electrification of cold room machine							
A/R	Supplying of panel moulded case circuit breaker (MCBB) with electronic release, breaking capacity 70KA, 4pole 415 Volt (250 A) A.C complete with all accessories etc as required	1			1	Each		
A/R	Supplying of panel moulded case circuit breaker (MCBB) with electronic release, breaking capacity 16KA, 4pole 415 Volt (63 A) A.C complete with all accessories etc as required	30			30	Each		
A/R	Supply of miniature circuit breaker (MCB) 4 pole & neutral, 415 volt A.C (63A) complete with all accessories suitable to fix on a din-bar etc as required	30			30	Each		
A/R	DB box 4 way	30			30	Each		

	Supplying of 4-core 1.1 KV grade PVC insulated & sheathed Aluminium conductor un-armoured power cables								
A/R	16 sq.mm	180				180	meter		
A/R	6 sq.mm	20				20	Meter		
A/R	Service cable supplying of 4-core 1.1 KV grade PVC insulated an sheathed Aluminium conductor armoured power cable								
A/R	70 sqmm	65				65	Meter		
A/R	Supplying of Pre-fabricated MS busbar chamber with copper busbar complete with all accessories etc as required 4 strips, 600mm bar, 300 A	1				1	Each		
	Control Gear & Busbar (supply)								
	minature Circuit Breake (MCB)								
A/R	Installation, testing and commissionig of SPN/DP miniature circuit breaker DIN type complete with all accessories to accommodate on/in prefabricatedMS surface/MS cubical control panel board includig drilling holes, connections etc as required. Installation, testin and commissioning of SPN/DP miniature circuit breaker DIN type complete with all accessories to accomodate on/in pre fabricated MS surface/MS cubical control panel board including drilling holes, connections etc as required: 6/10/16/20A	14				14	Each		
	Control Gear & Busbar (supply)								
	Distribution Board								
A/R	Installation, testing and commissioning of SPN DB (DIN type, horizontal/vertical) with no door, mtal door or arcylic door (double/single door) complete with all accessories to accomodat incoing RCCB DP 63A sensitivity 30/100/300mA and outgoing SP MCB 6/10/16 A on/in prefabricated MS surface/MS cubical control panal board including drilling holes, connections etc as required: 12 way	2				2	Each		

	Earthing								
	Earthing & Loop Earthing								
A/R	Provide and fixing of earthing including all accessories, machinery enclosure, C.I cover plate having locking arrangement, watering pipe with excavation and refilling work including charcoal or coke and salt complete as required as per standard earthing drawing: With G.I earth plate 600x600x6mm	1				1	Each		
	Earthing								
	Earthing & Loop Earthing								
A/R	Providing and laying earth connection from earth electrodes in 15mm dia G.I pipe from earth electrodes in 15mm dia G.I pipe from earth electrodes as required as per the guidance of standard earthing drawing: with 4.06mm dia (8SWG) G.I wire	30				30	Each		
	Lightning Conductors								
A/R	Providing and fixing lightning conductor including hotels, etc. complete as required								
A/R	25mm dia 300mm long copper tube single prong at top with 85mm dia 3mm thick	1				1	Each		
A/R	25mm dia 900 mm long copper tube four prong at top with 85mm dia 3mm thick	1				1	Each		
A/R	25mm dia 300 mm long G.I tube single prong at top with 85mm dia 6mm thick copper base plate	1				1	Each		
A/R	Providing and fixing metal strip on parapet or surface of wall/roof for lightning conductor as required								
A/R	25x4mm G.I strip	1				1	Each		
A/R	25x4mm copper strip	1				1	Each		

Package 2: Supply, Installation and Commissioning of Cold Store Machinerics at Dagana Dzongkhag

S/No.	Description	Qty.	Unit	Rate(BTN)	Amount (BTN)
Wall systems for Cold room					
1	Providing & fixing 75mm thickness wall panel PUF (PP/PP) insulated wall with PPGI lamination 0.5mm thick on both sides for walls, with press injected eco friendly Cyclopentane Rigid Polyurethane (PUF) foam core density 40- 42 kg/cu.m incorporating a tongue and groove joints with cam lock fixing system including providing & fixing internal & external PP flashings with fasteners & U-Profile & Silicon Sealants-white complete. The puff panel should be cut properly for opening window in warehouse; in Wall .	348.00	sq.m		
2	Providing & fixing 150mm thickness wall panel PUF (PP/PP) insulated wall with PPGI lamination 0.5mm thick on both sides for walls, with press injected eco friendly Cyclopentane Rigid Polyurethane (PUF) foam core density 40- 42 kg/cu.m incorporating a tongue and groove joints with cam lock fixing system including providing & fixing internal & external PP flashings with fasteners & U-Profile & Silicon Sealants-white complete. The puff panel should be cut properly for opening window in warehouse; in Wall .	78.00	sq.m		
3	Accessories for PU panel (nails etc.)	692.00	sq.m		
4	Self drilling screws	3,808.00	Pcs		
5	Rivets (Pop, Aluminium, steel rivets)	5.00	box		
6	Glue	3.00	box		
7	Wall panel	264.00	sq.m		
8	Providing & fixing Sliding door (2850 x 2100 mm) 2 units.	12.00	sq.m		
9	Canopy (0.5mm thickness steel sheet)	16.00	sq.m		
10	Door for Cold storage room (1850 x 850 mm) 6 unit	9.60	sq.m		
Roofing system					
1	Providing and fixing PU ceiling panel (75 mm thickness) PU sandwich panel.	234.00	sq.m		
2	Providing and fixing PU ceiling panel (150 mm thickness) PU sandwich panel.	32.00	sq.m		
3	Providing and fixing roof panel (0.5mm thickness) steel sheet	288.00	sq.m		
4	Providing and fixing edge cover (0.5mm thickness)	149.00	sq.m		
Cooler Room (8 x 5 x 3.3m) 5 units					
1	Providing and fixing of Condensing unit: hermetic/Scroll compressor, Horsepower: 6HP, 4EES-6Y 2. Voltage :380V/50HZ/3 Ph; 3. By R404a refrigerant gas 4. Cooling Capacity : 11.41kw ; Power consumption: 5.14kw 5. Evaporating SST: -10C, Condensing SDT: 40C Packing size: 1400*820*970	10.00	Set		
2	Providing and fixing of Evaporator unit: 4.5mm 3. Cooling Capacity: 16700w 4. Air Flow:2*6000m3/h 5.Heat exchange area: 80m2 Packing size:1900*750*890	10.00	Set		

3	Providing and fixing Control Panel box	10.00	Set		
4	Providing and fixing (Expansion Valve: Danfoss brand)	10.00	Set		
5	Providing and fixing Release window:	5.00	Set		
6	Providing and fixing Connecting pipes and power lines	10.00	Set		
7	Providing and fixing LED light explosion proof	18.00	Set		
Freezer room (8 x 4 x 3.3m) 1 unit					
1	Providing and fixing of Condensing unit hermetic/Scroll compressor Horsepower: 9HP, 4TES9Y 2. Voltage :380V/50HZ/3 Ph; 3. By R404a refrigerant gas 4. Cooling Capacity : 7.76kw ; Power consumption: 5.38kw 5. Evaporating SST: -30C Condensing SDT: 40C Packing size: 1380*820*1110	2.00	Set		
2	Providing and fixing of Evaporator unit: 2. Fin Space: 9mm3. Cooling Capacity: 9800w 4. Air Flow:2*6000m3/h 5.Heat exchange area: 55m2 Packing size:1900*810*820	2.00	Set		
3	Providing and fixing Control Panel box	2.00	Set		
4	Providing and fixing (Expansion Valve: Danfoss brand)	2.00	Set		
5	Providing and fixing Release window:	1.00	Set		
6	Providing and fixing Connecting pipes and power lines	2.00	Set		
7	Providing and fixing LED light explosion proof	2.00	Set		
8	160 KVA water cooled Diesel Generator	1.00	No.		
Maintenance tools					
1	Vacuum pump: Electric, Belt Drive Rotary Vane Pumps, Two stages, Industrial usage, Aluminium made.	1.00	No.		
2	Mobil Filter clamp: Chain type car strap socket wrench	1.00	No.		
3	Semi-auto folding rivet gun: standard size, multiple applicationsm aluminium alloy, 450g, imported.	1.00	No.		
4	Hand held riveter: Standard size, industrial usage, mild steel material, 412 g, Import	1.00	No.		
5	Pop rivets of various sizes (different sizes, 2.5mm-8mm, Aluminium material, Powder coated, multiple choices	500.00	no.		
6	Reinforced flat steps ladder	1.00	No.		
7	Hand drilling machine: 2.5 to 13 mm drill size, rpm: 300-2800	1.00	set		
8	Clamp multi meter: AC current: 2A/20A/200A/400A± (1.5%5), AC Voltage: 2V/20V/200V/600V ±(1.2%5), DC Voltage: 200mV/2V/20V/200V/600V ±(0.8%1), Resistance (o): O/20MO±(1%2), Display count: 2000	1.00	No.		
9	Swaging and flaring tool kit with box	1.00	No.		
10	Copper pipe bender (1/4"-1" sizes)	1.00	No.		
11	Tube cutters: Manual driver, size: 1/8"-11/8"	1.00	No.		
12	Guage manifold with hose pipe: Brass material all kind of gas pressure read	1.00	No.		
13	Nitrogen cylinder with accessories: Mild steel nitrogen gas cylinder, 20MPa, 5-30 Ltrs with necessary hose fittings	1.00	No.		
14	LPG cylinder with accessories, for gas welding and brazing. With necessary hose	1	No.		

15	Vacuum pressure leakage temperature tester full kit	1.00	No.		
16	Industrial blow torch: gas blow torch flame thrower burner welding auto ignition tool	5.00	No.		
17	Flat screw driver	2.00	No.		
18	Phillip Screw Driver	2.00	No.		
19	Offset screwdrivers set: slotted phillips 3 pcs/IRIMO	1.00	set		
20	Machinist plier: 6 inch slip joint 19207/steelman tool	1.00	No.		
21	Vice grip, wire cutter, curved jaw 7-inch 702L3	1.00	No.		
22	Adjustable wrech: forged, heat treated chrome-plated, set of 4 (6",8",10",12")	1.00	set		
23	Long nose plier: set of three (2" max jaw opening, 8" overall length, 2 7/8" jaw length, serrated wire cutter	1.00	set		
24	Pipe wrench: 3 piece heavy duty with storage pouch (6",8",12")	1.00	set		
25	Tool box set: Auto combination tools wrench set batch head ratchet pawl, socket spinner, screwdriver, socket set, multifunction	1.00	set		
26	Nut driver: Hollow shaft nut driver Hex bit socket metric 7-14 mm metal	1.00	set		
27	Allen wrench key set: 0.028-3/8 inch, 7-10 mm	1.00	set		
28	Machinist vice: Bench vice 360-degree swivel base and head with Anvil 6"	1.00	No.		
29	Curved claw hammer: With fiberglass handle-16 oz	1.00	No.		
30	Mallet hammer: Plastic mallet (pack of 2)	1.00	set		
31	Coping saw: With 40 pcs replacement blades (62-105 mm throat depth)	1.00	set		
32	Zig zag folding ruler: vintage 6 foot ruler	1.00	No.		
33	C-clamp: Malleable iron, 3 piece, 1", 2" and 3"	1.00	No.		
34	Single cut filer: Nicholson 5 piece general purpose hand file set or equivalent	1.00	No.		
35	Half round file: 6",8",10" and 12"	1.00	No.		
36	Waist tool bag: Leather waist tools carry bag (heavy duty)	3.00	set		
37	Spiral thread: HSS-M2 spiral metric tap and dye for stainless steel 6 mm to 14 mm	1.00	No.		
	Total Amount (Nu:)				

Package 2- Pre-fab Structure at Dagana Dzongkhag

Sl no	Particular	Specification	Qty.	Unit	Rate (BTN)	Amount (BTN)
1	Main Structure	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red [H shaped steel Q355B, alkyd painting or equivalent]	5.80	ton		
2	Roof purlin	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red [XZ160x60x20x2.2 or equivalent]	1.30	ton		
3	Wall purlin	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red [C220x75x20x2.5 or equivalent]	0.88	ton		
4	Wall purlin	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red [C140x50x20x2.5 or equivalent]	0.55	ton		
5	U channel	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red [[75x40x2 or equivalent]	0.93	ton		
6	Ceiling frame	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red [C80x40x20x2 or equivalent]	0.88	ton		
7	Intensive bolt	Providing & fixing bolts (Threaded) of various sizes including nuts & washers [M20 or equivalent]	120.00	set		
8	Anchor bolt	Providing & fixing bolts (Threaded) of various sizes including nuts & washers [M24 or equivalent]	48.00	pcs		
9	Turnbuckle	Providing & fixing bolts (Threaded) of various sizes including nuts & washers [M20 or equivalent]	32.00	pcs		
10	Ordinary bolt	Providing & fixing bolts (Threaded) of various sizes including nuts & washers [M12 or equivalent]	1264.00	pcs		
11	Bolt for tie bar	Providing & fixing bolts (Threaded) of various sizes including nuts & washers [M16 or equivalent]	68.00	pcs		
12	Bolt for brace	Providing & fixing bolts (Threaded) of various sizes including nuts & washers [M20 or equivalent]	64.00	pcs		
13	Nut for batter brace	Providing & fixing bolts (Threaded) of various sizes including nuts & washers [M12 or equivalent]	652.00	pcs		
14	Angle brace	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red [L56x5 or equivalent]	0.30	ton		

15	Tie Bar	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red [D89x2.5 or equivalent]	0.48	ton		
16	Batter brace	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red [D12 or equivalent]	0.19	ton		
17	Draw bar for ceiling	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red [D10 or equivalent]	0.26	ton		
18	Ceiling accessories	Providing & fixing bolts (Threaded) of various sizes including nuts & washers	480.00	pcs		
19	Roof panel	Providing & fixing Pre Painted Galvalume (PPGL) Roofing sheets (Green colour), including 4" self drilling srcew & washer , excluding the cost of purlins, rafter and trusses. 25g (0.50mm) of 550 MPA, including the side L flasing.	288.00	sqm		
20	Brace	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red [D20 or equivalent]	0.46	ton		
21	Sleeve tube	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red [D32x2.5 or equivalent]	0.06	ton		
22	Edge cover	0.5 mm thickness edge covers	149.00	Sqm		
		TOTAL AMOUNT				

Package 2: Electrification of Integrated Cold Store at Dagana

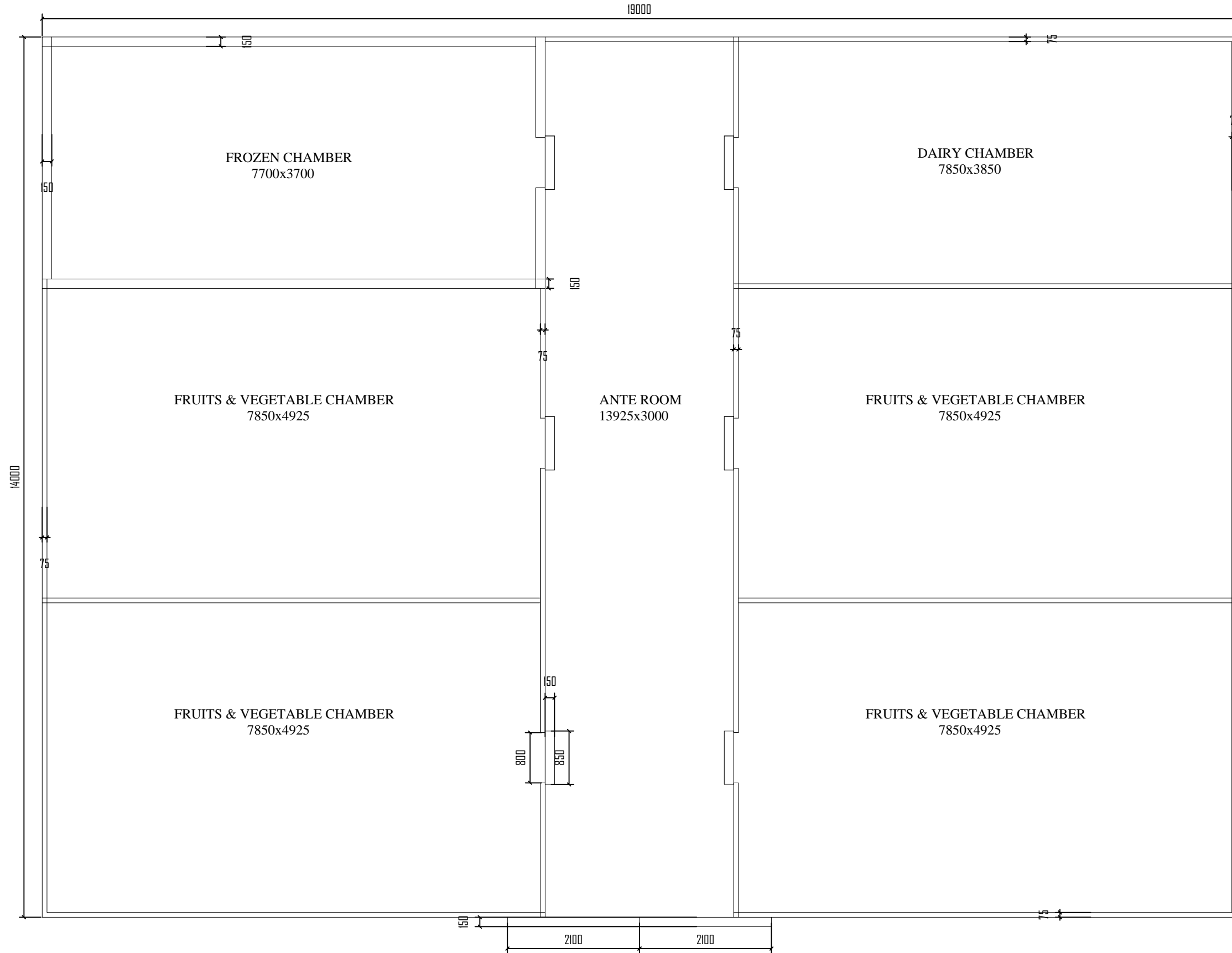
BSR CODE	Description	Nos	L(m)	W (m)	H (m)	QTY	UNIT	RATE	AMOUNT
	PVC Conduct								
A/R	Wiring for light, fan, call bell and 2 pin light socket outlet wth 1.5 sqmm 1.1 kV grade, PVC casing and capping includin connections, painting, testing & commissioning etc, as required.								
A/R	Short point	15				15	point		
A/R	Medium Point	15				15	Point		
A/R	Long point	10				10	Point		
	Supply of copper wire								
A/R	Wiring with 1.1kV grade, PVC insulated copper conductor cable in PVCcasing & capping includiing connections, painting								
A/R	Copper wire 2.5 sqmm	250				250	meter		
A/R	copper wire 1.5 sqmm	150				150	meter		
A/R	copper wire 0.75 sqmm	50				50	meter		
	Switches and Sockets								
A/R	Supply and fixing of socket/regulator on existing PVC/metal/modulated tough surface box (recessed or surface) including necessary cutting, connction testing etc. as required. Dimmer/regulato	14				14	each		
	Indoor luminiaries (Supply)								
	Indoor luminiaries								
A/R	Supplying of prewired indoor LED tube light 18 watt	8				8	Each		
	Flood Lght Luminiare								
	LAMPS								
A/R	Supply of LED flood light for each corner of the building (as compound light) 100w IP 64	4				4	Each		

	Control Gear & Busbar (supply)							
	Miniature circuit breaker (MCB)							
A/R	Supply of miniature circuit breaker (MCB) single pole, 230 volt A.C complete with all accessories suitable to fix on a din-bar etc. as required: 6A	7			7	Each		
	Control Gear & Busbar (supply)							
	miniature circuit breaker (MCB)							
A/R	Supply of miniature circuit breaker (MCB) single pole, 230 volt A.C complete with all accessories suitable to fix on a din-bar etc. as required: 16A for internal supply for cold store rooms	4			4	Each		
	Control Gear & Busbar (supply)							
	Isolator							
A/R	Supply of loadkontak isolator double pole, 230volt A.C complete with all accessories suitable to fix on a din-bar etc. as required 40A	1			1	Each		
	control Gear & Busbar (supply)							
	Distribution Board (DB)							
A/R	Supply of SPN distribution board (DIN type) with acrylic door, 230 volt A.C complete with all accessories without MCB/isolator/RCCB out going or incoming etc as required: 16way	1			1	Each		
	Erection/Installation							
	Luminaries Installation/flood light							
A/R	Installation, testing and commissioning of pre-wired fluorescent & flood light fittings of all surface type complete with all accessories and tubes directly on ceiling/wall as required including connection with PVC insulated copper conductor: 1sq.mm single core cable 1.1 KV grade	14			14	Point		

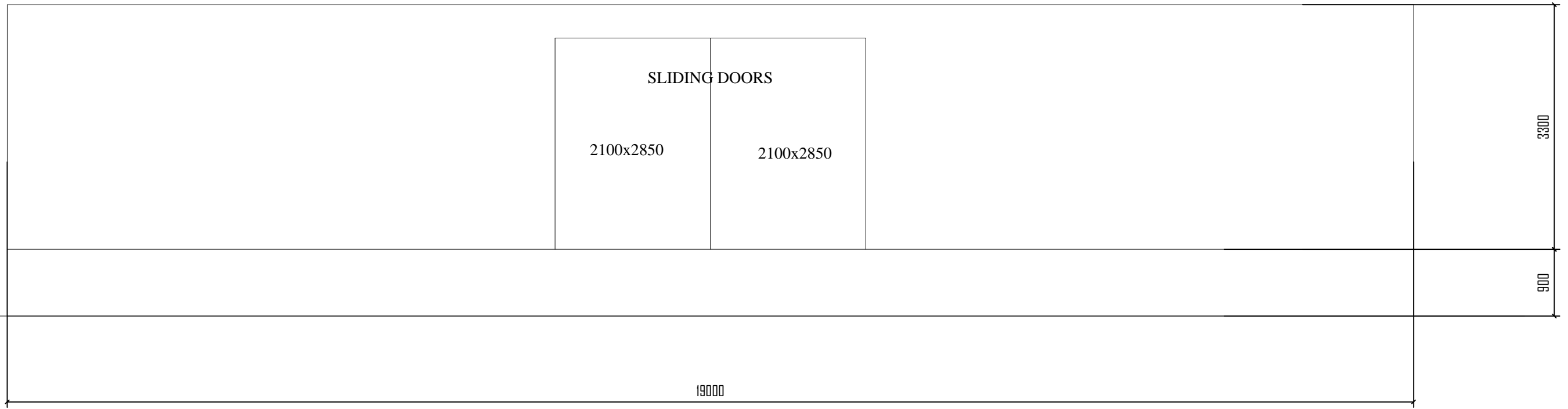
	Electrification of cold room machine								
A/R	Supplying of panel moulded case circuit breaker (MCBB) with electronic release, breaking capacity 70KA, 4pole 415 Volt (250 A) A.C complete with all accessories etc as required	1				1	Each		
A/R	Supplying of panel moulded case circuit breaker (MCBB) with electronic release, breaking capacity 16KA, 4pole 415 Volt (63 A) A.C complete with all accessories etc as required	19				19	Each		
A/R	Supply of miniature circuit breaker (MCB) 4 pole & neutral, 415 volt A.C (63A) complete with all accessories suitable to fix on a din-bar etc as required	19				19	Each		
A/R	DB box 4 way	19				19	Each		
	Supplying of 4-core 1.1 KV grade PVC insulated & sheathed Aluminium conductor un-armoured power cables								
A/R	16 sq.mm	160				160	meter		
A/R	6 sq.mm	15				15	Meter		
A/R	Service cable supplying of 4-core 1.1 KV grade PVC insulated an sheathed Aluminium conductor armoured power cable								
A/R	70 sqmm	65				65	Meter		
A/R	Supplying of Pre-fabricated MS busbar chamber with copper busbar complete with all accessories etc as required 4 strips, 600mm bar, 300 A	1				1	Each		
	Control Gear & Busbar (supply)								
	minature Circuit Breake (MCB)								
A/R	Installation, testing and commissioning of SPN/DP miniature circuit breaker DIN type complete with all accessories to accommodate on/in prefabricatedMS surface/MS cubical control panel board including drilling holes, connections etc as required. Installation, testin and commissioning of SPN/DP miniature circuit breaker DIN type complete with all accessories to accomodate on/in pre fabricated MS surface/MS cubical control panel board including drilling holes, connections etc as required: 6/10/16/20A	12				12	Each		

	Control Gear & Busbar (supply)								
	Distribution Board								
A/R	Installation, testing and commissioning of SPN DB (DIN type, horizontal/vertical) with no door, mtal door or arcylic door (double/single door) complete with all accessories to accomodat incoing RCCB DP 63A sensitivity 30/100/300mA and outgoing SP MCB 6/10/16 A on/in prefabricated MS surface/MS cubical control panal board including drilling holes, connections etc as required: 12 way	1				1	Each		
	Earthing								
	Earthing & Loop Earthing								
A/R	Provide and fixing of earthing including all accessories, machinery enclosure, C.I cover plate having locking arrangment, watering pipe with excavation and refilling work including charcoal or coke and salt complete as required as per standard earthing drawing: With G.I earth plate 600x600x6mm	1				1	Each		
	Earthing								
	Earthing & Loop Earthing								
A/R	Providing and laying earth connection from earth electrodesin 15mm dia G.I pipe from earth electrodes in 15mm dia G.I pipe fro earth electrodes as required as per the guidance of standard earthing drawing: with 4.06mm dia (8SWG) G.I wire	30				30	Each		
	Lightning Conductors								
A/R	Providing and fixing lightning cinductor including hotels, etc. complete as required								
A/R	25mm dia 300mm long copper tube single prong at top with 85mm dia 3mm thick	1				1	Each		
A/R	25mm dia 900 mm long copper tube four prong at top with 85mm dia 3mm thick	1				1	Each		
A/R	25mm dia 300 mm long G.I tube single prong at top with 85mm dia 6mm thick copper base plate	1				1	Each		
A/R	Providing and fixing metal strip on parapet or surface of wall/roof for lightning conductor as required								
A/R	25x4mm G.I strip	1				1	Each		
A/R	25x4mm copper strip	1				1	Each		

Annexure-3



NOTES * ALL DIMENSIONS ARE IN MM. * ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED. * ALL DIMENSIONS SHOULD BE CHECKED AT SITE LAYOUT BEFORE FABRICATION. * IF THERE IS ANY DISCREPANCIES IN THE DRAWINGS THEN REPORT TO SITE ENGINEER FOR CLARIFICATION.	REVISIONS				PROJECT: CONSTRUCTION OF INTEGRATED COLD STORE AT DAGANA DZONGKHAG		SUBJECT: FLOOR PLAN		DRAWING NO. : 01	
	REV.	DATE	DESCRIPTION	REVISED BY:						
SCALE: NTS		DATE: MARCH 2023								



NOTES
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REVISIONS			
REV.	DATE	DESCRIPTION	REVISED BY:

PROJECT:
 CONSTRUCTION OF INTEGRATED COLD STORE AT DAGANA DZONGKHAG

PREPARED BY: SUJAN PRADHAN

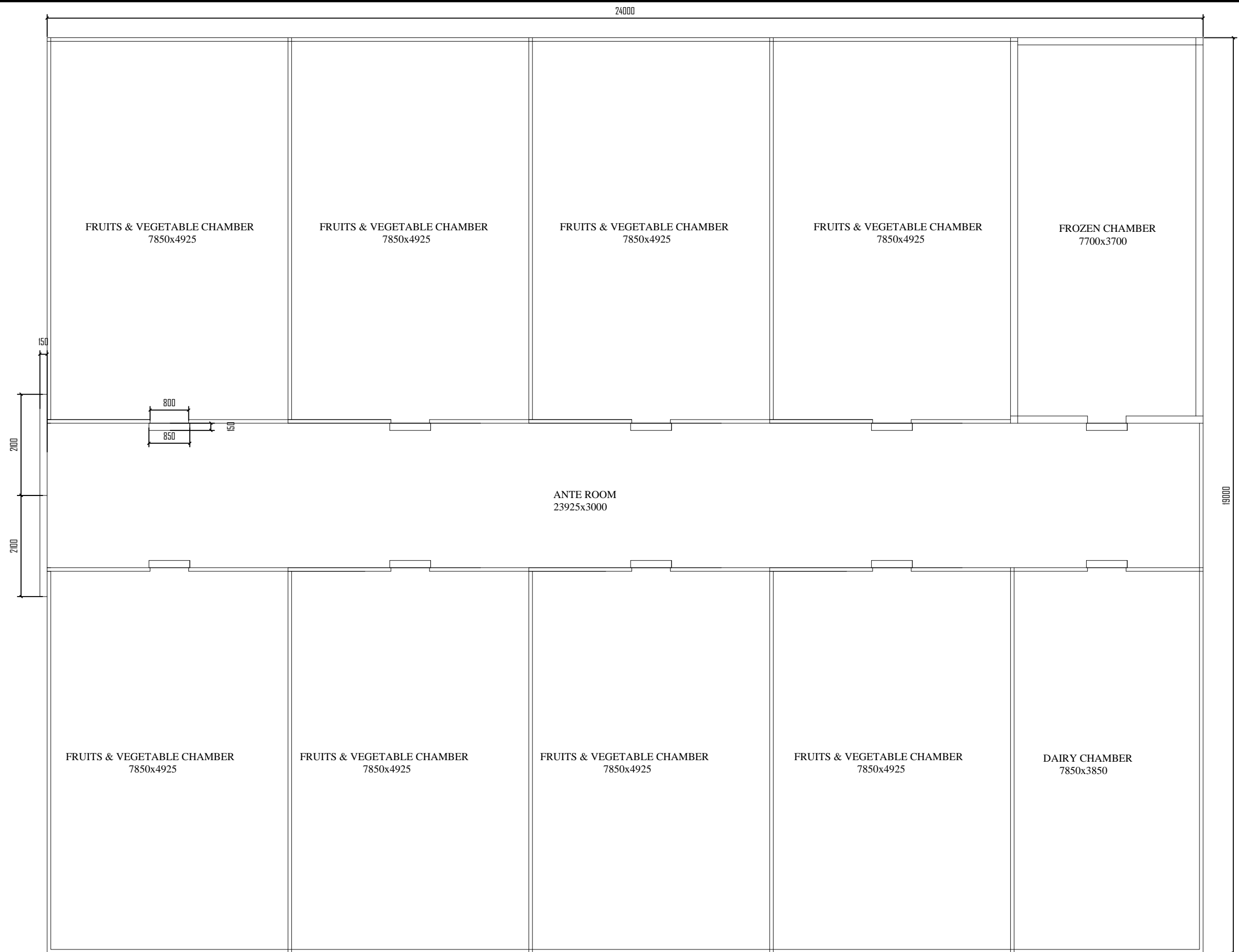
APPROVED BY:

SUBJECT:
 FRONT ELEVATION

SCALE:
 NTS

DATE:
 MARCH 2023

DRAWING NO. :
 02



NOTES
 * ALL DIMENSIONS ARE IN MM.
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 * IF THERE IS ANY DISCREPANCIES IN THE DRAWINGS THEN REPORT TO SITE ENGINEER FOR CLARIFICATION.

REVISIONS			
REV.	DATE	DESCRIPTION	REVISED BY:

PROJECT:
 CONSTRUCTION OF INTEGRATED COLD STORE AT SAMTSE DZONGKHAG

PREPARED BY: SUJAN PRADHAN

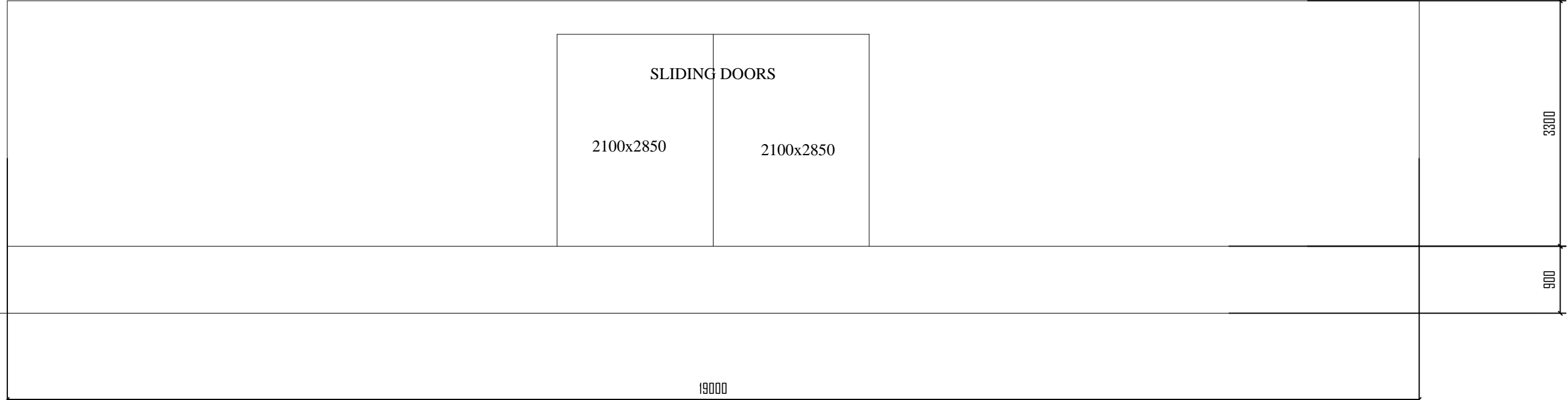
APPROVED BY:

SUBJECT:
 FLOOR PLAN

SCALE:
 NTS

DATE:
 MARCH 2023

DRAWING NO. :
 03



NOTES * ALL DIMENSIONS ARE IN MM. * ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED. * ALL DIMENSIONS SHOULD BE CHECKED AT SITE LAYOUT BEFORE FABRICATION. * IF THERE IS ANY DISCREPANCIES IN THE DRAWINGS THEN REPORT TO SITE ENGINEER FOR CLARIFICATION.	REVISIONS				PROJECT: CONSTRUCTION OF INTEGRATED COLD STORE AT SAMTSE DZONGKHAG		SUBJECT: FRONT ELEVATION		DRAWING NO. : 04
	REV.	DATE	DESCRIPTION	REVISED BY:			PREPARED BY:		
					SUJAN PRADHAN		DATE: MARCH 2023		