

# **ASSAM POWER GENERATION CORPORATION LIMITED**

PROJECT DIRECTOR (PMU), LKHEP  
BIJULEE BHAWAN, GUWAHATI-781001



## **TENDER DOCUMENT FOR**

NIT NO: - Tender Notice No. APGCL/PD/LKHEP/Civil Works/05  
of 2020-21 of PD (PMU), LKHEP, APGCL, Dated:  
20.11.2020

NAME OF THE WORK: - CONSTRUCTION OF SECURITY BARRACK AT LOWER  
KOPI LI H. E. PROJECT (120 MW), LONGKU, DIMA  
HASAO DISTRICT.

Issued to:

Name:-

Address: -

Issued by:

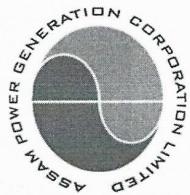
Price: - ₹ 1000/-  
(Non Refundable)

November, 2020

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**CHAPTER-I**  
**TENDER NOTICE**



**ASSAM POWER GENERATION CORPORATION LIMITED**

Registered Office: Bijulee Bhawan, 3<sup>rd</sup> floor, Paltanbazar, Guwahati-781 001, Assam

**Sri. Abhijit Bhuyan**

**Project Director (PMU)**

LOWER KOPILI HYDRO ELECTRIC PROJECT

E-mail: pdpmu@apgcl.com

**Tender Notice No. APGCL/PD/LKHEP/Civil Works/05 of 2020-21**

**Dated: 20.11.2020**

Sealed tender is hereby invited by the Project Director (PMU), Lower Kopili H.E. Project, APGCL, Bijulee Bhawan, Guwahati-1 for the work mentioned below from experienced and financially sound Civil Engineering firms / contractors. Preference shall be given to the local eligible tribal contractors. However all Government norms will be followed.

SI. no.	Name of Work	Tendered Amount Rs.	Earnest Money (Gen) Rs.	Earnest Money (SC/ST/OBC) Rs.	Time of Completion
1	Construction of Security Barrack at Lower Kopili H. E. Project (120 MW), Longku, Dima Hasao District	23,86,022.00	47,720.00	23,860.00	<b>100 (Hundred) days</b>

The bid documents may be obtained from the office of the Project Director (PMU), Lower Kopili H.E. Project, APGCL, 3<sup>rd</sup> Floor, Bijulee Bhawan, Paltan Bazar, Guwahati-01 during office hours on all working days with effect from **24.11.2020** to **08.12.2020**. The bids will be received up to **13:00 hrs** of **09.12.2020** and will be opened at **14:00 hrs** on the same day in presence of the tenderers or their authorized representatives.

The bid documents will be issued only on payment of **Rs. 1,000.00** (Rupees One Thousand only), which is non-refundable in the shape of Demand Draft duly pledged in favour of **Deputy General Manager (F & A), APGCL**. The Earnest Money is to be submitted in the form of demand draft drawn in favour of Deputy General Manager (F & A), APGCL.

The bid documents may also be downloaded from website [www.apgcl.org](http://www.apgcl.org). Cost of bid documents shall have to be deposited along with the bid documents. The Project Director (PMU), Lower Kopili H.E. Project, APGCL is not bound to accept the lowest rates and reserves the right to accept or reject any or all tenders without assigning any reason thereof.

  
Project Director (PMU)  
Lower Kopili H.E. Project, APGCL

Memo no: APGCL/LKHEP/PD/2020-21/55/03

Dated: 20.11.2020

Copy to:

- 1) The Managing Director, APGCL, Bijulee Bhawan, Paltan bazar, Guwahati -1 for kind information.
- 2) The General Manager (HQ), LKHEP, APGCL for information.
- 3) The Deputy General Manager, Investigation Circle, APGCL, Narangi, Guwahati -26 for information and wide circulation of the N.I.T.
- 4) The Deputy General Manager (F&A), APGCL, Bijulee Bhawan, Paltan bazar, Guwahati-1, for information.
- 5) The Assistant General Manager, Lower Kopili Construction Division, APGCL, Lanka, Dist.-Hojai for wide circulation of the N.I.T.
- 6) The P.R.O., APDCL, Bijulee Bhawan, Paltan bazar, Guwahati -1 for information with a request to publish the NIT in local news paper both in Regional and English language Daily on or before **23.11.2020**.
- 7) Relevant File.

  
Project Director (PMU)  
Lower Kopili H.E. Project, APGCL

## CHAPTER-II

### **1 TERMINOLOGY**

- 1.01** APGCL wherever used in this document shall mean Assam Power Generation Corporation Limited incorporated vide The Companies Act 1961 in exercise of Powers conferred under the Act including subsequent amendments, if any. APGCL is a successor company of ASEB.
- 1.02** Project Director (PMU),APGCL or owner or purchaser or project authority wherever used in this document shall mean the officer holding the post of the Project Director (PMU), LKHEP, APGCL, Guwahati (Assam), who or his authorized representative will exercise authority on behalf of the Department in respect of the Tender and the works specified herein.
- 1.03** Engineer-in-Charge/or Engineer shall mean the Officer holding the charge of the Departmental post of General Manager/ Assistant General Manager (Civil) pertaining to supervision of works specified in this document.
- 1.04** The term 'Contractor' wherever used in this document shall mean the individual/firm or company who shall have entered into a contract agreement with the owner or the project authority, undertaking on his behalf to carry out the works in full or in part as may be specified in contract documents, and shall include in the case of an individual/ his heirs, administrators and permitted assignees, in case of a firm, the partners of the said firm, their respective heirs, executors, administrators and permitted assignees, and in case of a Company its successors and permitted assignees.
- 1.05** Contract documents shall mean and comprise the following documents and shall be the basis of agreement between the owner and the contractor for carrying out the works in accordance with the terms and conditions, specifications, drawings and directions contained in the said documents
- a) Bid documents duly filled in respect of rates, process & signed, the tender forms properly filled in, signed and dated by the contractor & duly submitted
  - b) Contractor's original bid proposal and subsequent correspondences relating to clarifications and negotiations, if any, prior to award of the contract.
  - c) Equipment specifications and drawings, so far as applicable
  - d) Approved agreement forms duly signed, dated and sealed by the contractor and the owner as specified in the said forms
- 1.06** 'Equipments' and 'Plants' shall mean and include all sorts of machineries and accessories, apparatus, instruments, components manufactured articles and parts etc. to be supplied or provided by the contractor under the terms of the contract , unless otherwise specified
- 1.07** The 'Works' shall unless be repugnant to such description shall be construed and taken to mean the works contracted, or by virtue of the contract agreement, to be executed whether temporary or permanent and whether original, altered, substituted or additional
- 1.08** The expression 'Specifications' wherever used in this document shall mean all the pertinent terms and stipulations furnished herein in respect of the work or part thereof and/or indicated in the drawings appended hereto and to be issued for construction and shall have reference also to other relevant terms and stipulations not furnished herein, but as far as applicable

## **CHAPTER-III**

### **INSTRUCTION FOR BIDDERS AND SPECIAL CONDITIONS**

**NIT NO:** - Tender Notice No. APGCL/PD/LKHEP/Civil Works/05 of 2020-21 of Project Director (PMU), LKHEP, Dated: 20.11.20220

**BID INVITATION FOR:** - Construction of Security Barrack at Lower Kopili H. E. Project (120 MW), Longku, Dima Hasao District.

**EARNEST MONEY DEPOSIT:**  
Rs. 47,720.00 (for General)  
Rs. 23,860.00 (for SC/ST/OBC) (For Individual only)

**1. DUE DATE AND CLOSING TIME**

The bids will be received up to 13:00 hrs on 09.12.2020. The opening time of the bids will be at 14:00 hrs on the same day and the venue will be the office of the Project Director (PMU), LKHEP, APGCL. Bidders or their authorized representatives shall make it convenient to attend the bid opening on time.

**2. TIME OF COMPLETION OF WORK**

The stipulated time of completion of the work is 100 (Hundred) days from the date of handing over of the site.

**3. BID-GUARANTEE OR EARNEST MONEY DEPOSIT: (E.M.)**

3.1 Every bid or tender shall be accompanied by a deposit of E.M for an amount indicated in the Tender Notice pertaining to the work (ordinarily equivalent to 2% of the estimated value of work, unless otherwise specified in the Notice), in the form of an acceptable **Demand Draft only from a Nationalized/Scheduled Bank pledged in favour of the Deputy General Manager (F & A), APGCL, Guwahati**. Irregular tender is liable to be rejected.

3.2 The E.M. as mentioned above will be returned to the respective unsuccessful bidder soon after the award of the contract. The E.M. will be retained towards the contract security deposit in the case of selected bidder or bidders in whose favour the contract is awarded. APGCL will not entertain any claim for release of the E.M. during pendency in selection of contractors for awarding the contract. APGCL will not pay any interest on the E.M. deposit.

3.3 **The E.M. is liable to be forfeited in the absolute discretion of the Project Director (PMU), LKHEP, APGCL, if a selected bidder revokes or causes to withdraw his offer / tender before the expiry of its validity or fails after the contract is awarded to him to execute the 'Contract agreement' with the APGCL described herein after (so far as applicable) or to commence the work within the period as notified in the work order.**

**4. PERFORMANCE –GUARANTEE OR SECURITY DEPOSIT (S.D.)**

4.1 The security to be taken for due performance of the contract in terms of the 'contract agreement' will be a deduction of 10% (ten percent) from every ad-interim payment made on account of works performed, until the sum of these deductions and E.M. together becomes equal to 10 (ten) percent of the total executed value.

4.2 Such S.D. shall be forfeited or appropriated by the PD (PMU), LKHEP, APGCL, Bijulee Bhawan, Guwahati under authority of the owner in his discretion towards any loss, damage etc. that may be sustained by the APGCL as a result of breach of any terms, conditions of the contract by the contractor, notwithstanding other remedies open to the APGCL under the terms of the contract or law.

4.3 In the event of contractor's Security Deposit being appropriated towards loss, damage etc, the contractor shall forthwith recoup the amount to restore the Security Deposit to the full current value within 30 (thirty) days from the date of intimation.

4.4 Subject to the provisions mentioned above and the provisions of guarantee period of one year, the Security Deposit will be returned to the contractor on the due and satisfactory completion of the contract and after all claims of the APGCL shall have been settled. The APGCL will not pay any interest on the amount of Security Deposit of Performance Guarantee.

**5. TAXES AND DUTIES:**

5.1 All duties, taxes including Goods and Services Tax (GST) and other levies, royalty, building and construction workers cess (as applicable in states), payable by the bidder/Contractor under the Contract, or for any other cause as applicable on the last date of submission of Bid, shall be included in the rates, prices and the total Bid Price submitted by the Bidder. All investments, operating expenses, incidentals, overheads leads, lifts, carriages, tools, and plants etc. as may be attendant upon execution and completion of works shall also be included in the rates, prices and total Bid price submitted by the bidder.

However, such duties, taxes, levies etc. which is notified after the last date of submission of Bid and/ or any increase over the rate existing on the last date of submission of Bid shall be reimbursed by the company on production of documentary evidence in support of payment actually made to the concerned authorities.

Similarly if there is any decrease in such duties, taxes and levies the same shall become recoverable from the contractor. The details of such duties, taxes and other levies along with rates shall be declared by the bidder.

The Employer will perform such duties in regard to the deduction of such taxes at source as per applicable law.

5.2 **The contractors must have a valid GST Registration No. and should submit copy of GST Certificate and attested copy of PAN Card.**

5.3 Caste certificate must be produced where necessary.

**6. BIDDER'S QUALIFICATIONS:**

6.1 The Bidder should submit a list and description of similar or comparable works **along with Work Completion Certificate**, such as construction of Assam type/RCC buildings including sanitary, water supply and electrification etc. previously executed by him successfully during last 3 (three) consecutive financial years indicating the individual volume and contract price along with the name and address of the respective owner / authority.

6.2 All prospective bidders are hereby notified that, before any bid submitted in response to this invitation is considered for award, the Project Director (PMU), LKHEP, APGCL may require the bidder to submit a further statement of facts in detail as to the previous experience of the bidder and financial resource available with him for performing the contemplated work. The PD (PMU), LKHEP, APGCL expressly reserves the right to reject any bid or which the facts as to business, financial and other resources or business experience, compared with the work bid upon, justify such rejection.

6.3 **The Bidder should submit valid Labour License Certificate.**

6.4 Civil Engineering firms / contractors with adequate experience must complete 3 (three) similar works as mentioned in Clause No 6.1 above having **total value not less than Rs. 9.54 Lakhs for each work during last the last 3 (three) financial years i.e. from April starting to March ending.** They must submit such work completion certificate with the tender.

6.5 Cost over run shall not be accepted.

6.6 Contractors should be financially sound to invest the amount and should submit necessary evidence on this account. **Annual turnover should not be less Rs. 7.16 Lakhs in the last 3 (three) Financial Years i.e.2019-20, 2018-19 and 2017-18.**

**7. BIDDER SHOULD EXAMINE & UNDERSTAND**

7.1 All prospective bidders are required to thoroughly study and carefully examine all the terms and conditions, instructions, drawing & specifications pertaining to the work and visit the field of work to fully satisfy and acquaint themselves about the nature and location of work, the configuration of the ground. The spring level, the surface conditions, quality and quantity of materials required and their availability the type of equipments and facilities needed preliminary to and during the execution of the work and local conditions which may affect the work or cost thereof. Failure to do so will be at the bidder's risk.

## 8. SUBMISSION OF TENDER

- 8.1 Bidders are to quote their rates against each item in clear money (Rupees) value per unit of work in the prescribed format.
- 8.2 **The rates quoted by the bidders will be inclusive of all taxes, royalties and other statutory levies as applicable.**
- 8.3 The specification of the work shall be as per the APWD SOR. If any item of the work is not as per SOR then its specifications shall be as per relevant drawings/ additional specifications.
- 8.4 Bidders should note that unusually low rates not feasible for execution may not be technically accepted.
- 8.5 Bidders should note that during the time of execution of work, any item not covered by the schedule of work if required to be done as per decision of the Project Director (PMU), APGCL/ Engineer-in- Charge of APGCL, they have to execute such work/works as supplementary item of works, rates of which will be calculated as per prevailing market rates of materials/labourers.

If the rate of such supplementary item/items is/are not available in the aforesaid S.O.R, the same will be analyzed by the department as per reasonable market price but in any case of dispute for rate of supplementary item/items, the decision of Project Director (PMU) will be final and conclusive.

- 8.6 **The quoted rates will be firm for entire period of completion of the work and no price escalation will be admissible.**
- 8.7 Firms submitting tender should enclose a certified copy of the Firm's constitution and a certified copy of Power of Attorney authorizing a person to operate the tender and contract and should furnish full address of the partners and the persons holding power of attorney on behalf of the firm.
- 8.8 **Information regarding litigation, current or during the last five years, in which the Bidder is involved with APGCL/AEGCL/APDCL, must be furnished, if any in the form of declaration. If there is no litigation, then the bidder is requested to submit NIL in the form of declaration.**
- 8.9 In the event of the date specified for bid receipt and opening being declared as a closed holiday for Purchaser's office, the due date for submission of bids and opening of bids will be the following working day at the appointed date and place.
- 8.10 The Corporation cannot be held responsible for non-receipt and postal delay.
- 8.11 **Every page of the tender to be duly signed and sealed (if any) by the tenderer.**

## 9. AWARD OF CONTRACT

- 9.1 The contract will be awarded to that responsible bidder whose bid, confirming to the schedule conditions of contract and specifications will be most advantageous to the Department, price and other factors considered. An award mailed (or otherwise furnished) to the successful bidder within the time for acceptance specified in the bid will result in a binding contract without further action by either party. The Project Director (PMU), APGCL does not bind itself to accept the lowest bid or any bid. **As the interest of the Department may require, the right is reserved to reject any or all bids and to waive any minor informality or irregularity in bids received without assigning any reason thereof.** Bid which are incomplete or which contain undesirable conditions are liable to rejection.
- 9.2 **APGCL will try to make timely payment of bills, but on unavoidable circumstances cannot guarantee timely payment of bills, for which no interest on the payable amount will be entertained.**

## 10. CONTRACT AGREEMENT

- 10.1 The 'Contract agreement' (or Tender Agreement) for the works will be drawn up with the selected bidder/bidders within 7 (Seven) days of issue of the work order and the contract documents will comprise as described herein before.
- 10.2 The conditions of the F-2 form shall form part and parcel of the agreement. However wherever there is any contradiction or variation between the conditions of the F-2 form, the terms and conditions specified elsewhere in this document, the later will be treated as superseding the former. Terms and conditions shall be as per F-2 Form of agreement and has to follow

accordingly. In the Form F-2 all the designations appearing as Executive Engineer/Sub Divisional Officer shall be read as Project Director (PMU), LKHEP, Assam Power Generation Corporation Limited (herein after called as PD (PMU), LKHEP, APGCL).

- 10.3 In a case where the selected bidder fails to commence the work as shall be notified in the work order or fails to execute the tender agreement with the PD (PMU), LKHEP, APGCL as stipulated herein before; the PD (PMU), LKHEP, APGCL reserves the right to claim loss, damage etc. and take appropriate action under the terms of this document or law including forfeiture of E.M.

**11. TOOLS & PLANTS**

- 11.1 The APGCL shall not furnish any tools & tackle, plants and equipments or such facilities for carrying out the work by the contractor (excluding hypothecation). The contractor shall arrange and maintain the equipments required for implementation of work all throughout the period of the contract.

**12. MATERIALS & LABOUR**

- 12.1 All materials (this includes without limitation raw materials, parts, components, etc.) and laborers required for carrying out the work shall be arranged and furnished by the contractor all throughout the tenure of the contract and strictly conform to relevant IS Code (latest revision).
- 12.2 The intending tenderers should inspect the prospective sources of collection of raw materials and fully satisfy him about the quality of materials, availability of materials, lead, and mode of transportation. The Department shall not consider, after acceptance of the contract, to pay any extra charge for lead or any other reasons, in case the contractor found later on, to have misjudged, the quality/quantity of availability of such materials from the source of collection.
- 12.3 APGCL shall not issue any construction materials such as cement, reinforcement bar, or any other materials.
- 12.4 In connection with the performance of work throughout the tenure of the contract, the engagement of labour and payment therefore by the contractor shall conform to the statute, the pertinent law or act of the Central & State Govt., as well as rules, regulations and orders of the local authorities or statutory bodies, as may be in force from time to time.
- 12.5 The materials procured for the work by the contractor shall be placed at site properly for inspection of Engineer-in charge before utilization. Any defecting materials should be replaced immediately for which no extra charge will be payable to contractor.

**13. CHANGES IN QUANTITY AND ITEM**

- 13.1 The PD (PMU), LKHEP, APGCL may at any time, by a written order make changes within the general scope of the contract, in any one or more of the following

- i) Quantity of any item
- ii) Alteration or omission of any item
- iii) Addition of any item
- iv) Alteration in drawings, designs or specifications

If any such change causes an increase or decrease in the cost of or the time required for performance of the contract, an equitable adjustment shall be made in the contract price or time schedule or both and the contract shall be modified in writing accordingly. Any claim by the contractor for adjustment under this clause must be asserted within 30 days from the date of receipt by the contractor of the notification of change: PROVIDED HOWEVER, that the PD (PMU), LKHEP, APGCL if decides that the facts justify such action, may receive and act upon any such claim asserted at any time prior to final payment under the contract. Failure to agree to any adjustment shall be a dispute concerning a question of fact within the meaning of the disputes mentioned herein after. However nothing in this clause shall excuse the contractor from proceeding with the contract as changed.



**14. INSPECTION**

- 14.1 All works and all supplies (this term includes without limitation raw materials, parts, components, intermediate assemblies and end products) under the contract shall be subject to inspection and test by the PD (PMU), LKHEP, APGCL or his authorized person to the extent practicable at all times and places including the period of construction or manufacture and in any event prior to final acceptance.
- 14.2 In case any work or part thereof or/and any supply is found defective in material or workmanship or otherwise not in conformity with the specifications or drawings or requirements of the contract, the PD (PMU), LKHEP, APGCL shall have the right either to reject them or to require their correction, as directed by the department.
- 14.3 The inspection and test by the PD (PMU), LKHEP, APGCL or his authorized person of any work or any supplies does not relieve the contractor from any responsibility regarding defects or other failures to meet the contract requirements which may be discovered prior to final acceptance. Except as otherwise provided in this contract final acceptance shall be conclusive except as regards latent defects, fraud or such gross mistakes as amount to fraud.
- 14.4 The contractor shall provide and maintain an inspection system acceptable to the PD (PMU), LKHEP, APGCL covering the works and/or supplies hereunder. Records of all inspection works by the contractor shall be kept complete and available to the PD (PMU), LKHEP, APGCL during the performance of this contract.

**15. FORCE MAJUERE**

- 15.1 The contractor shall not be liable for any excess cost of any failure to perform the contract arises out of causes beyond the control and without the fault or negligence of the contractor (such as FORCE MAJEURE) PROVIDED THAT the contractor shall notify the authority in writing of the cause of any such delay, within fifteen (15) days from the beginning thereof or within such further period as the authority shall grant for the giving of such notice.

**16. LIQUIDITY DAMAGE**

- 16.1 The liquidated damages shall be payable for delay in completion of the work @ 1.0 % (**One percent**) of the executed value per week. The liquidated damages so payable shall not exceed 10% (ten percent) of the executed value. However, the payment of liquidated damages shall not in any way relieve the Contractor from any of its obligations to complete the works or from any other obligations and liabilities of the Contractor under the Contract.

**17. TERMS OF PAYMENT**

- 1) **1st Running Account Bill shall be entertained only after completion of minimum 50% of total value of the executed work.**
- 2) Bills shall be entertained on the basis of actual measurement of completed works as per standard procedure.
- 3) Every payment shall be made subject to the availability of fund.

**18. CONTRACTUAL FAILURE:**

- 18.1 In the event of Contractual Failure of any respect on the part of the successful bidder, APGCL shall be entitled to forfeit the EMD or any money received from the bidder and may take appropriate action under the terms of the Contract or Law.

**19. SETTLEMENT OF DISPUTE:**

- 19.1 In the event of any dispute or differences at any time arising between the parties relating to work or any other clauses or any content of the right and liabilities of the parties or other matters specified therein or with reference to anything arising out of the such dispute or differences shall be endeavored to be resolved by mutual negotiation. If, however, such negotiation is infructuous, the dispute should be finally settled through Arbitration and Conciliation Act 1996 by three arbitrators appointed in accordance with the said Act. The decision of the arbitrator shall be final & binding upon the parties and the expense of the

arbitration shall be paid as may be determined by the arbitrator in accordance with provisions of Arbitration and Conciliation Act 1996. The arbitration proceedings shall be held in Guwahati.

**20. TERMINATION:**

20.1 APGCL may, by not less than 7 (seven) days written notice may terminate the contract, if the contractor :- (i) fails to remedy a failure in the performance of his obligations, (ii) becomes insolvent or bankrupt, (iii) submit to APGCL statement which has a material effect on the rights, obligations or interest of APGCL and which the contractor known to be false, (iv) as result of force majeure, if the whole work cannot be performed for a continuous period of 90 (ninety) days.

APGCL shall make payment upon termination to contractor the services performed by the contractor to the entire satisfaction of APGCL prior to date of termination.

## CHAPTER-IV

### SAFETY ENGINEERING & SAFETY CODE

#### 1. SAFETY ENGINEERING

Accident prevention shall be an essential part of the programme of the contractor for all operations involve in performance of the contract under this invitation in order to reduce the cost of construction measures in terms of:

- a. Human life sacrificed
- b. Temporary and permanent injuries to workers.
- c. Loss of materials resulting from accidents.
- d. Loss of damage to equipment.
- e. The cost of workman's compensation insurance.
- f. Loss of times due to accidents.

Suitable safety programme to be developed to cope with the particular hazards for each operations of the performance of the contract.

#### 2. INSPECTION

To ensure effective enforcement of the rules and regulations relating to safety precautions, the arrangements made by the contractor shall be open to inspect by the Engineer-in-Charge or his representative.

#### 3. COMPENSATION

No extra charges or additional compensation will be admissible to the contractor by the department for any work done to comply with the provisions of safety Engineering and Safety Code. The bid price of the contractor for various items shall include these incidental cost.

## CHAPTER-V

### CONTRACTOR'S CAMP

#### 1. CAMP SITES

The contractor shall provide, maintain and operate under competent direction such camp facilities convenient to the site works under this contract as are necessary for housing, feeding and accommodation of his employees. The location, construction, operation and maintenance of such camps shall be subject to the approval of the Assistant General Manager/ Engineer in charge of the site.

#### 2. USE OF LAND FOR CONSTRUCTION PURPOSES

Such land as may be available at worksite will be allowed to be used by the contractor for construction of his camps free of charge. However, development of clearances of the land will have to be done by the contractor at his own cost. The contractor will be responsible to clear and clean the site after completion of his works and handover the land to the Engineer-in-Charge. The contractor will be liable to pay compensation for any damages done to the land or neighboring area.

#### 3. SANITATION IN CAMP SITE:

The temporary sanitation in the camp site should be properly maintained and hygienic so that pollution can be controlled and just before completion of the work site must be cleared properly.

CHAPTER-VI

DECLARATION

I / We hereby declare that I/we shall treat the tender documents and other records connected with the works as secret/confidential and shall not communicate information derived there from to any person other than person to whom I//We/am/are authorized to communicate the same or use the information to any manner prejudicial to the safety of the state.

Signature of the tenderer

Full Name:

(In Block letters)

Address .....

.....

.....

.....

Phone/ Mobile .....

Date: .....

**CHAPTER-VII**

**DECLARATION OF LITIGATION**

Information on litigation history in which bidder is involved

Employer (APDCL/APGCL/AEGCL)	Cause of Dispute	Amount involved	Remarks showing present status

**CHAPTER-VIII**

**Schedule of work:**

**ANNEXURE-A**

To,

The Project Director (PMU),  
LKHEP, APGCL, Bijulee Bhawan  
Paltan Bazar, Guwahati-781001

Sub: Submission of tender for the work “Construction of Security Barrack at Lower Kopili H. E. Project (120 MW), Longku, Dima Hasao District.”

Ref: Your Tender Notice No APGCL/PD/LKHEP/Civil Works/05 of 2020-21 dated: 20.11.2020

Dear Sir,

In response to your above notice I/We ..... am /are submitting herewith, my / our rates for the work as mentioned below. Necessary documents, as asked for, are enclosed herewith, for your kind perusal.

**A. Schedule items of work**

Sl. No.	Name of work	Rate on percentage basis to be quoted on the Schedule of Rates for A.P.W.D, Building (Civil works) for the year 2013-14 (including GST)		
		In Figure	At Par/Above/Below	In words
A	Construction of Security Barrack at Lower Kopili H. E. Project (120 MW), Longku, Dima Hasao District			

Enclose:

1. Demand Draft No.:

2. Date of issue:

3. Name of Bank:

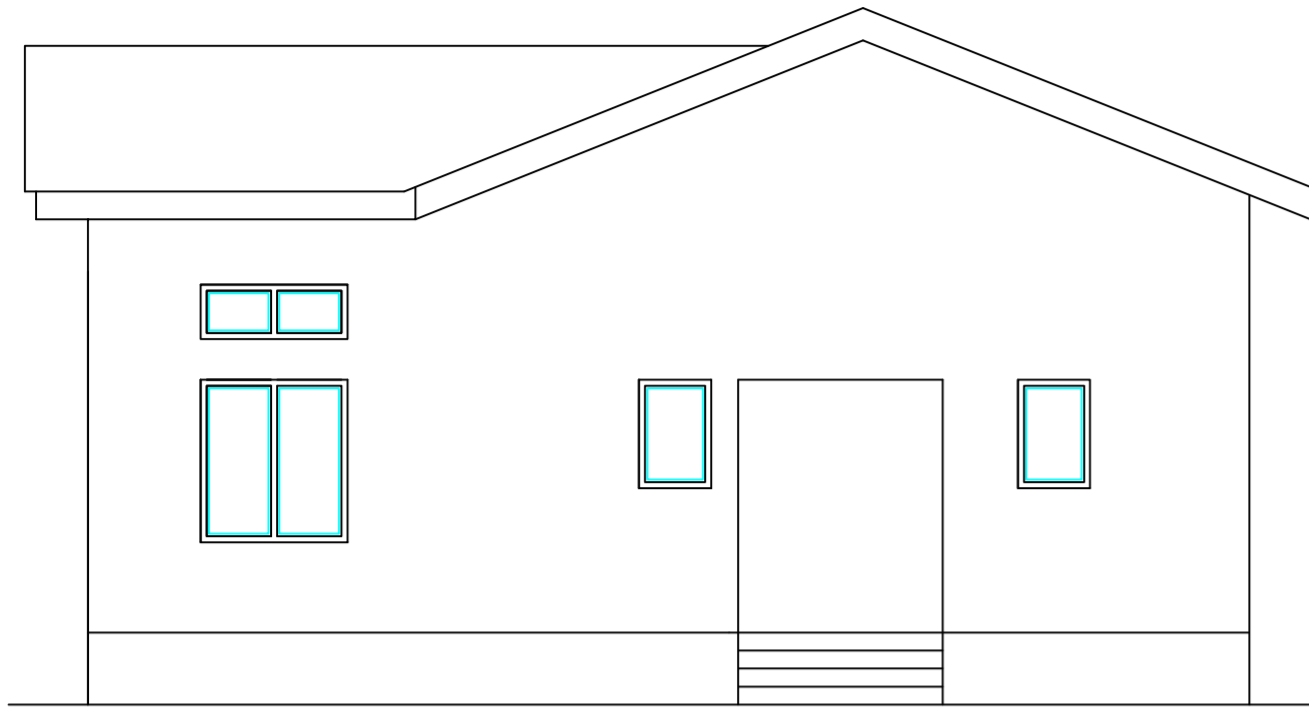
Yours faithfully,

Signature of contractor

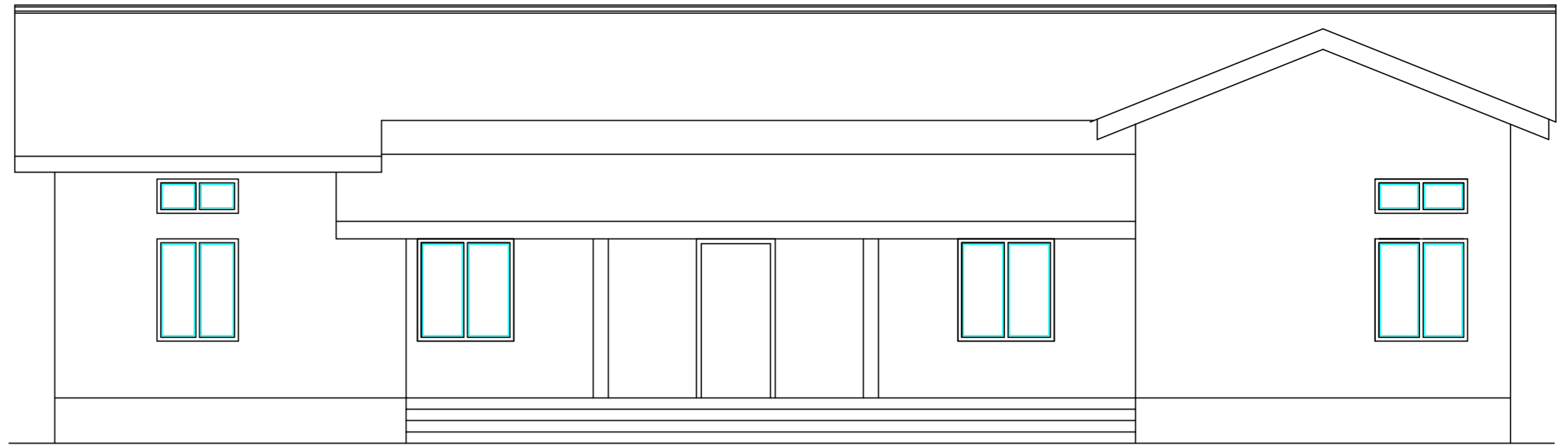
Full Name:

Address:

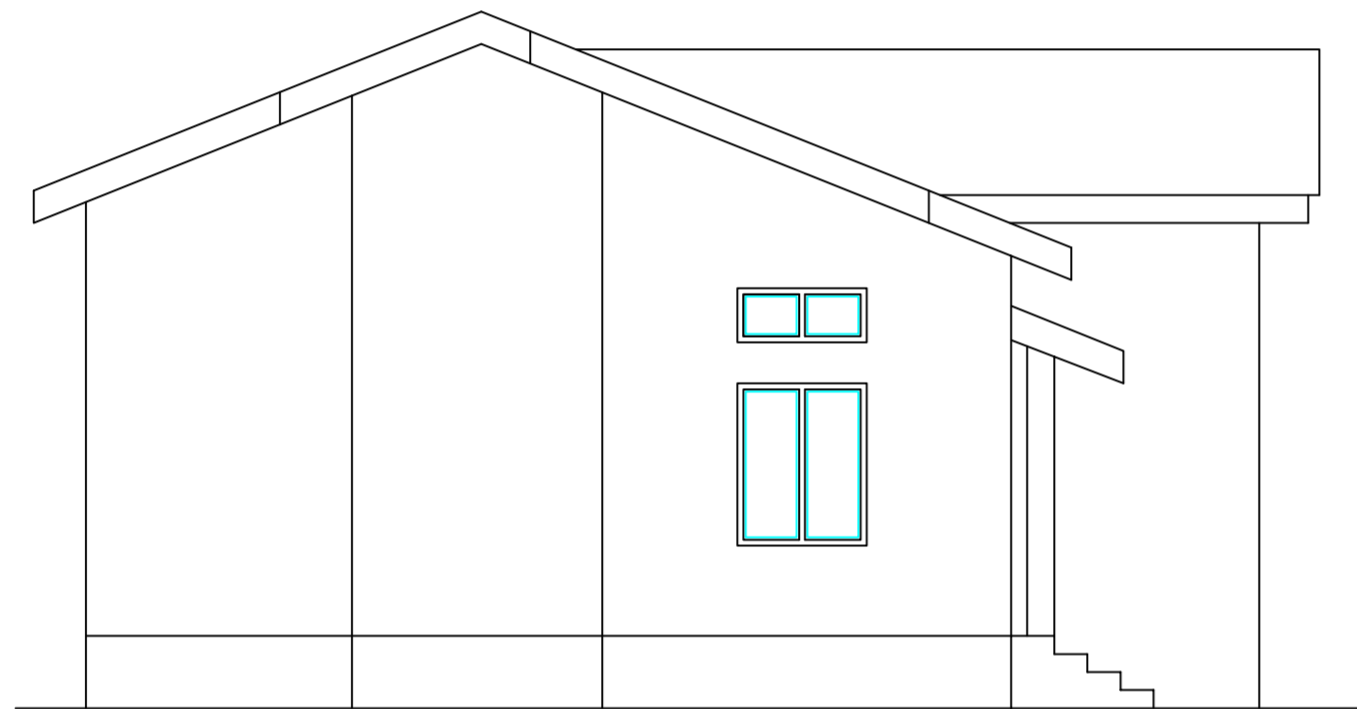
Mobile No:



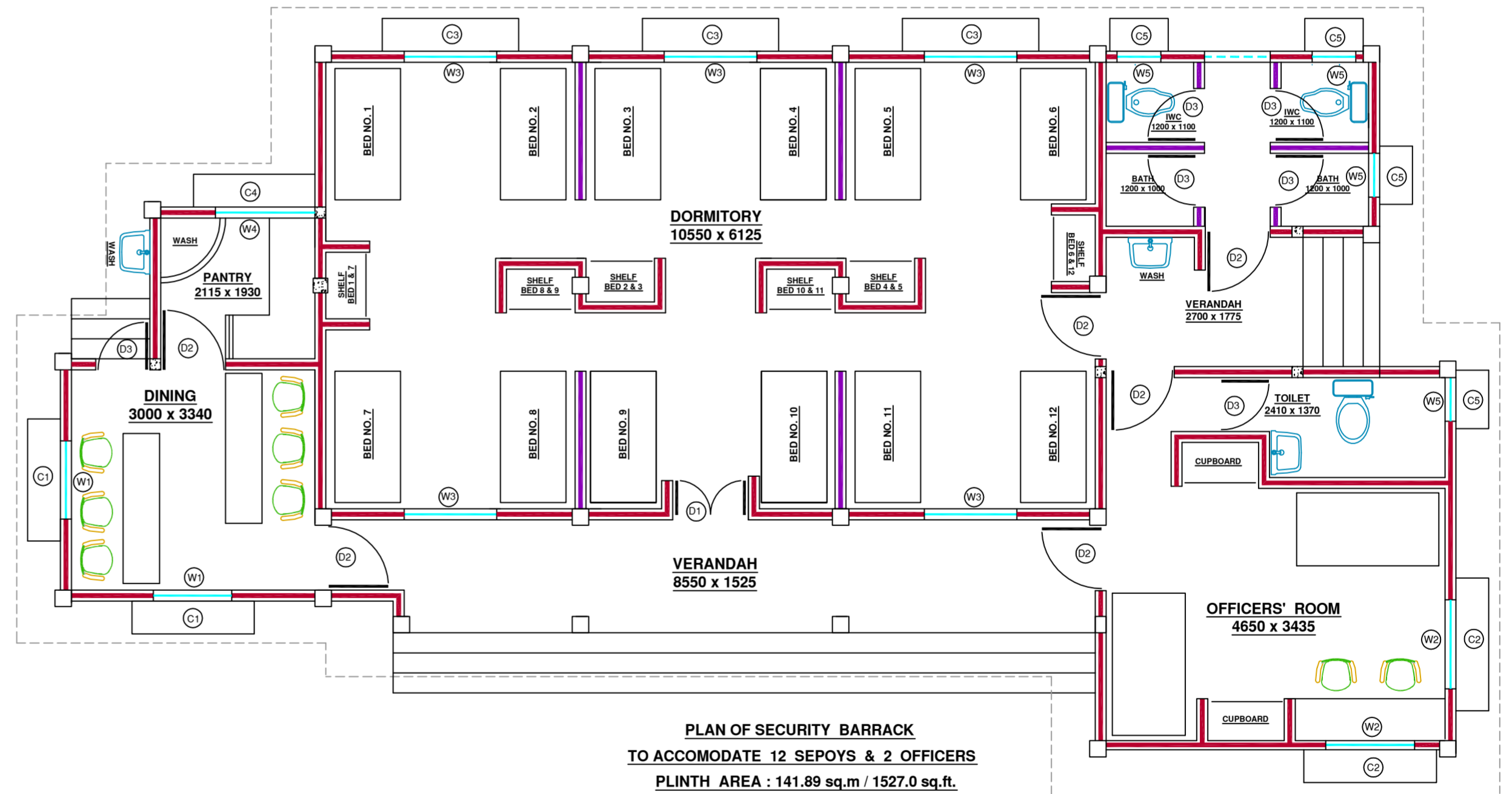
SIDE ELEVATION 1



FRONT ELEVATION



SIDE ELEVATION 2



**DOORS AND WINDOWS SCHEDULE**

DOOR SCHEDULE				
DOOR	WIDTH (mm)	HEIGHT (mm)	SHUTTER DIMENSION	
			WIDTH (mm)	HEIGHT (mm)
D1	1020	2100	893	2035
D2	950	2100	763	2035
D3	740	2100	610	2035

**NOTE:**

1. Chowkath of 125 x 75 sections made of 1st class timber (Sal/Nahar/Hollock) should be used in case of doors.
2. Each door frame shall accommodate block board shutters of given dimensions.
3. The abbreviation Al stands for Alluminium.

WINDOW SCHEDULE							
WINDOW	WINDOW SEGMENT				VENTILATION SEGMENT		
	WIDTH (mm)	HEIGHT (mm)	SILL LVL (mm)	DESCRIPTION	WIDTH (mm)	HEIGHT (mm)	DESCRIPTION
W1	1075	1350	750	Two glazed Al shutter on double track	1075	450	Top hung double glazed Al shutter
W2	1220	1350	750	Two glazed Al shutter on double track	1220	450	Top hung single glazed Al shutter
W3	1270	1350	750	Two glazed Al shutter on double track	1270	450	Top hung single glazed Al shutter
W4	1365	1350	750	Two glazed Al shutter on double track	1365	450	Top hung single glazed Al shutter
W5	600	800	1200	Hinged single shutter with ribbed glazing			

**CHAJJAH SCHEDULE**

CHAJJAH	WINDOW SEGMENT			
	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)	REINFORCEMENT
C1	1675	450	75	8Ø torr steel @ 150 mm c/c both ways
C2	1820	450	75	8Ø torr steel @ 150 mm c/c both ways
C3	1870	450	75	8Ø torr steel @ 150 mm c/c both ways
C4	1665	450	75	8Ø torr steel @ 150 mm c/c both ways
C5	800	450	75	8Ø torr steel @ 150 mm c/c both ways

NOTE: ALL DIMENSIONS ARE IN mm AND ONLY WRITTEN DIMENSIONS SHOULD BE FOLLOWED

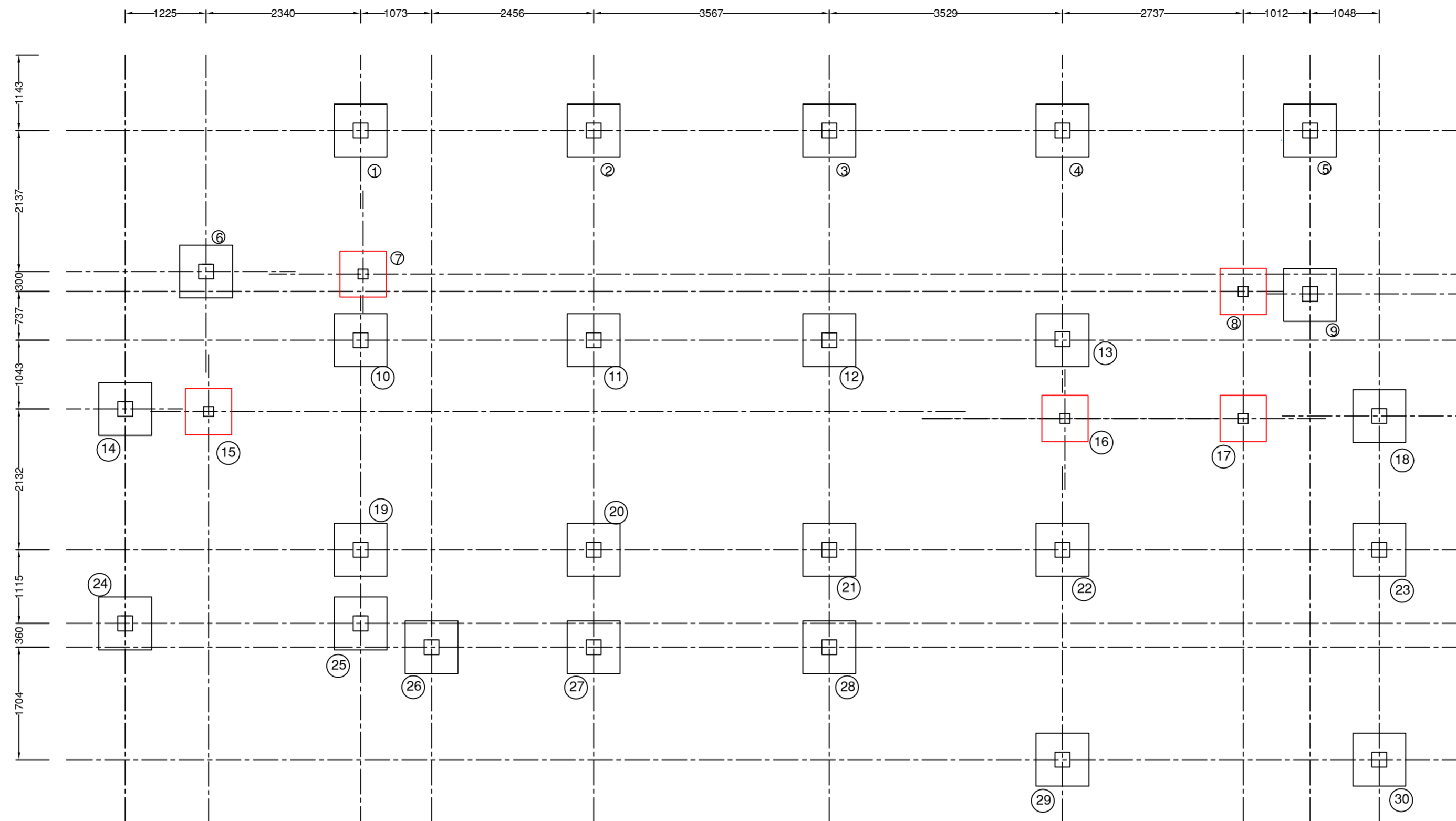
ASSAM POWER GENERATION CORPORATION LTD .  
 OFFICE OF THE CHIEF GENERAL MANAGER  
 HYDRO & CIVIL, PALTANBAZAR, GHY-01  
 CONSTRUCTION OF SECURITY BARRACK AT LKHEP  
 PLAN, ELEVATION, DOOR & WINDOW SCHEDULE  
 AND CHAJJAH SCHEDULE

DRAWN BY:  
 K. TALUKDAR

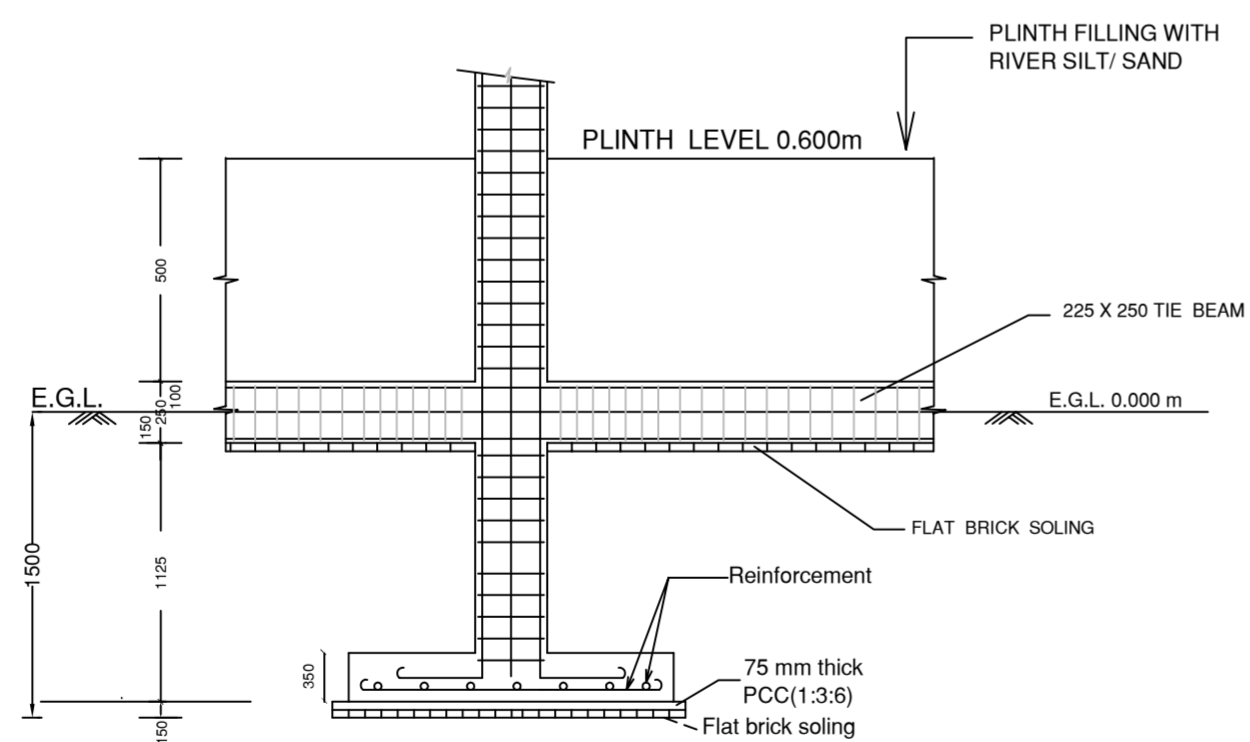
APPROVED BY:  
 R. BISWANATH, CGM

DRG. NO. CGM(H&C)/SECURITY BARRACK/LKHEP/2020/01  
 DATE: NOVEMBER, 2020





**LAY-OUT PLAN OF FOOTINGS**



**SECTION 1-1**

**GENERAL NOTE FOR CONSTRUCTION**

ALL RCC WORK SHALL BE CAST WITH M20 GRADE OF CONCRETE (NOMINAL MIX OF 1:1.5:3)

COARSE AGGREGATE OF 40 mm DOWN SIZE MAY BE USED IN CONCRETE MIX FOR CASTING OF FOOTING .

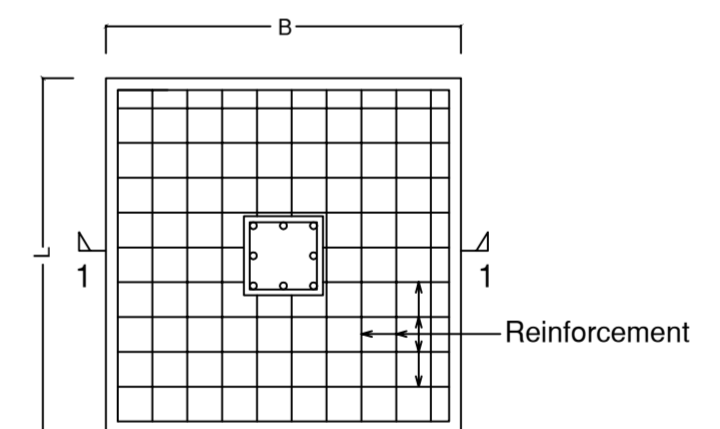
COLUMN SHALL BE CAST WITH 20 mm DOWN SIZE COARSE AGGREGATE ONLY .

CLEAR COVER TO REINFORCEMENT :

- TO MAIN STEEL OF COLUMNS : 40 mm
- TO MAIN STEEL OF FOOTING : 50 mm ON ALL SIDES .

PLINTH LEVEL FROM EXISTING G.L. = 1050.00mm.

ALL DIMENSIONS ARE IN mm AND ONLY WRITTEN DIMENSIONS SHOULD BE FOLLOWED.



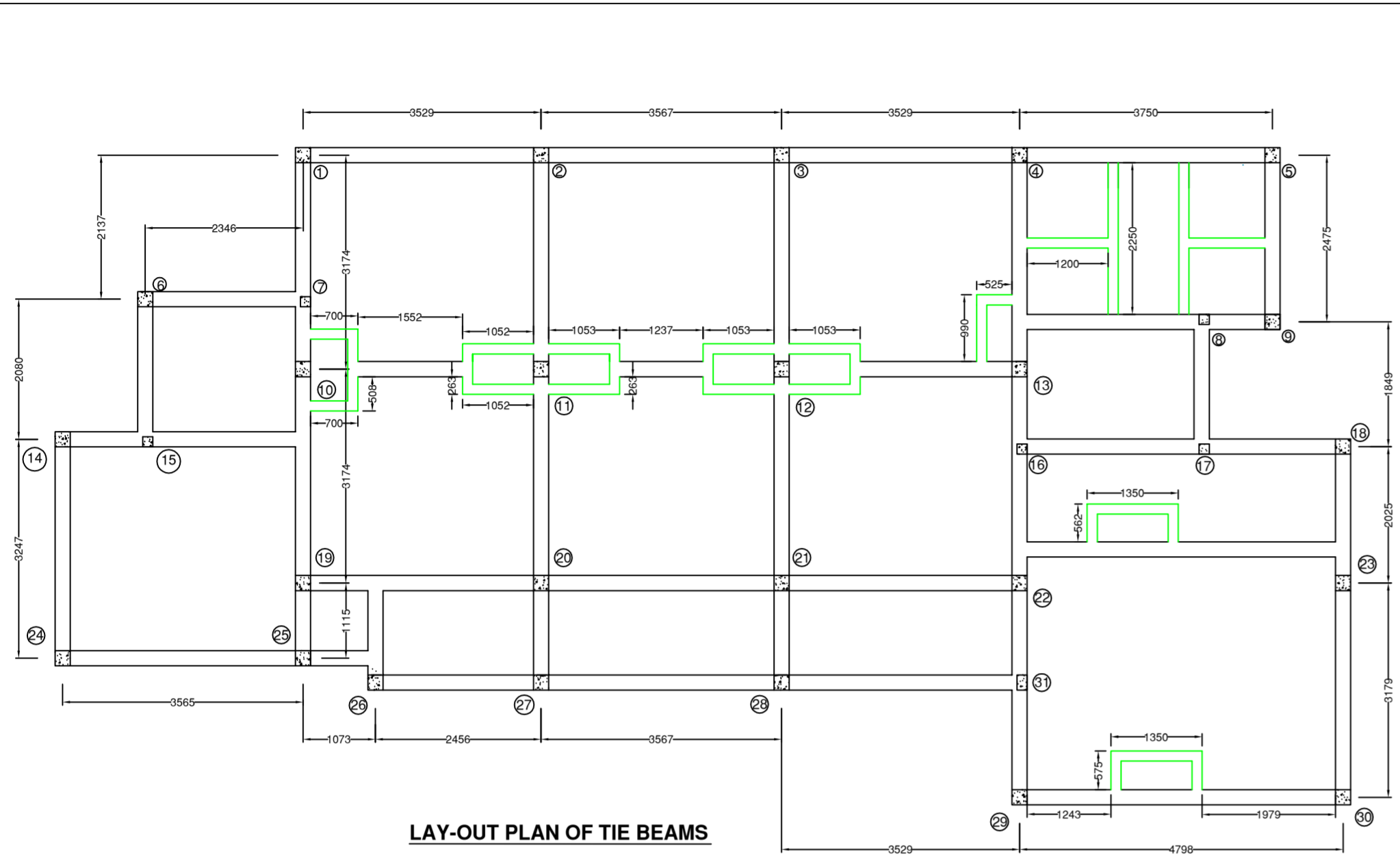
**FOOTING PLAN**

**FOOTING SCHEDULE**

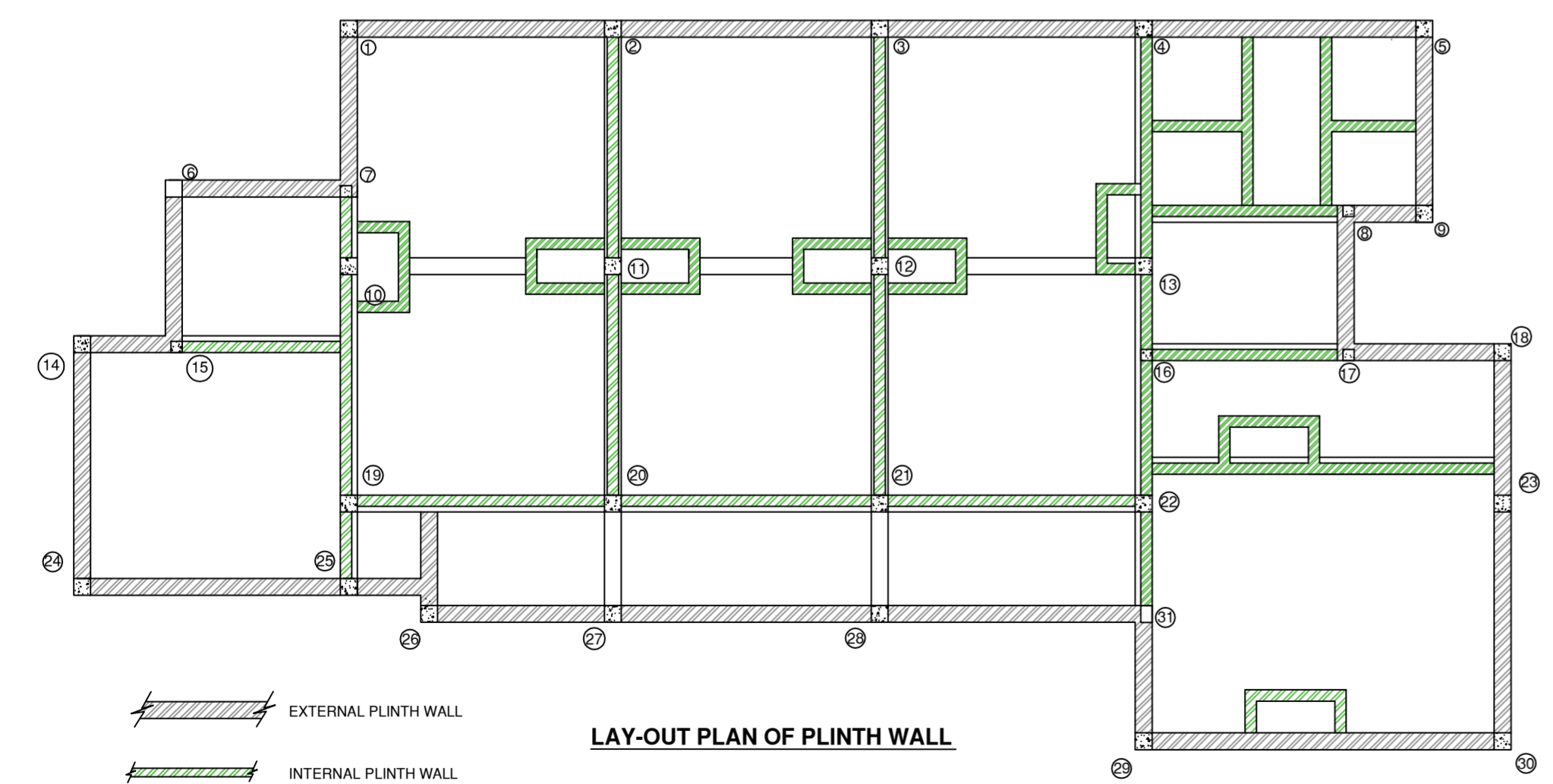
FOOTING NO	FOOTING SIZE L mm x B mm	TOTAL DEPTH D mm	FOOTING SLAB REINFORCEMENT
7, 8, 15, 16 & 17	700 x 700	350	6-8 mm tor @ 130 c/c bothways
1, 2, 3, 4, 5, 6, 9, 10, 11, 12, 13, 14, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29 & 30	800 x 800	350	7-8 mm tor @ 120/c bothways

NOTE: ALL DIMENSIONS ARE IN mm AND ONLY WRITTEN DIMENSIONS SHOULD BE FOLLOWED

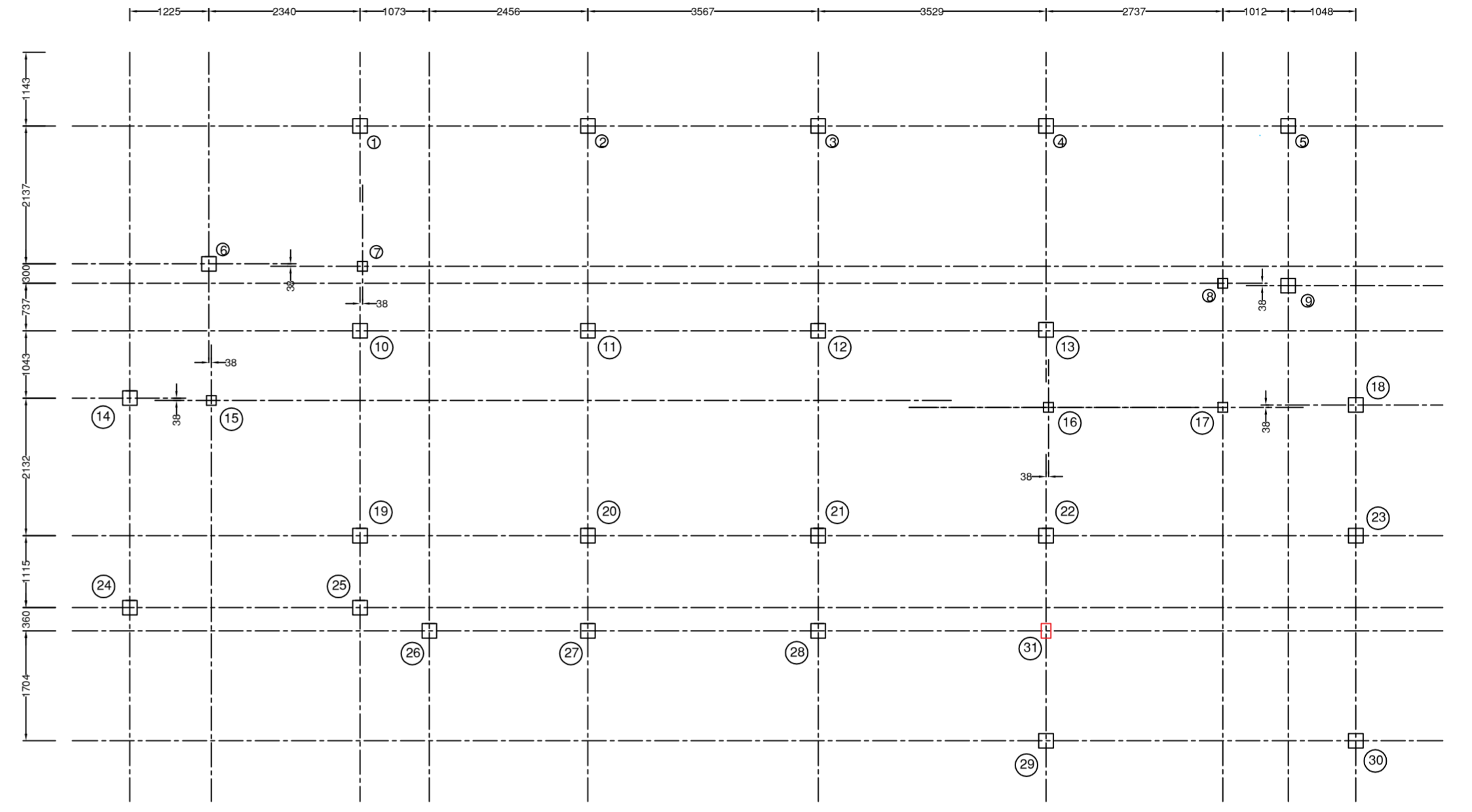
ASSAM POWER GENERATION CORPORATION LTD	
OFFICE OF THE CHIEF GENERAL MANAGER HYDRO & CIVIL, PALTANBAZAR, GHY-01	
CONSTRUCTION OF SECURITY BARRACK AT LKHEP	
LAY-OUT PLAN AND DETAIL OF FOOTINGS	
DRAWN BY: <i>K. Talukdar</i> K. TALUKDAR	APPROVED BY: <i>R. Biswanath</i> R. BISWANATH, CGM
DRG. NO. CGM(H&C)/SECURITY BARRACK/LKHEP/2020/02	DATE NOVEMBER, 2020



LAY-OUT PLAN OF TIE BEAMS



LAY-OUT PLAN OF PLINTH WALL



LAY-OUT PLAN OF MULLION AND COLUMNS

NOTE: THERE IS ONLY ONE MULLION (LABELLED AS NO 31) IN THE ENTIRE BUILDING.

COLUMN AND TIE BEAM SCHEDULE

SL. NO.	R.C.C. ELEMENT	C/S DIAGRAM	C/S SIZE(mm)	LONG STEEL	STIRRUP SPECIFICATION	REMARKS
1	COLUMN (TYPE A)		225 x 225	4-12Ø	8Ø rectangular M.S. stirrups @ 125mm c/c	Applicable to column no 1, 2, 3, 4, 5, 6, 9, 10, 11, 12, 13, 14, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29 & 30 as shown in the lay-out plan of mullion and columns
2	COLUMN (TYPE B)		200 x 200	4-12Ø	8Ø rectangular M.S. stirrups @ 125mm c/c	Applicable to column no 7, 8, 15, 16 & 17 as shown in the lay-out plan mullion and columns
3	TIE BEAM (TYPE A)		225 x 250	4-12Ø	8Ø rectangular M.S. stirrups @ 150mm c/c	Applicable to all the tie beams except the ones shown in green colour in the tie beam lay-out plan
4	TIE BEAM (TYPE B)		150 x 250	4-10Ø	8Ø rectangular M.S. stirrups @ 150mm c/c	Applicable to all the tie beams shown in green colour in the tie beam lay-out plan
5	MULLION		150 x 225	4-12Ø	8Ø rectangular M.S. stirrups @ 150mm c/c	Applicable to mullion no 31 as indicated in the Lay-out plan of mullion and columns

NOTE: ALL DIMENSIONS ARE IN mm AND ONLY WRITTEN DIMENSIONS SHOULD BE FOLLOWED

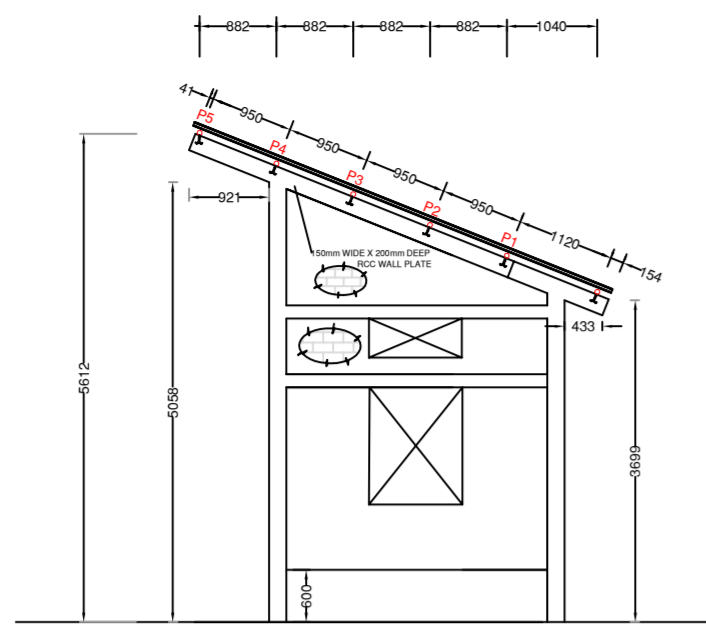
- NOTE**
- ALL EXTERNAL PLINTH WALLS ARE 225mm THICK AND ALL INTERNAL PLINTH WALLS ARE 112.5mm THICK BRICK WALLS IN CEMENT MORTAR 1:5.
  - HEIGHT OF EACH PLINTH WALL= (600-100)mm = 500mm.
  - A LAYER OF 25mm THICK D.P.C SHOULD BE PROVIDED ALONG THE PERIPHERY OF ALL PLINTH WALLS.

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 LAYOUT PLAN AND DETAIL OF COLUMNS, TIE BEAMS AND PLINTH WALL

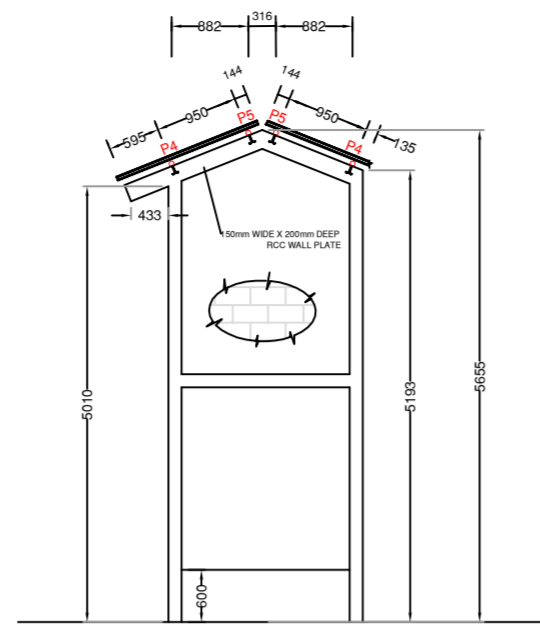
DRAWN BY:   
 K. TALUKDAR

APPROVED BY:   
 R. BISWANATH, CGM

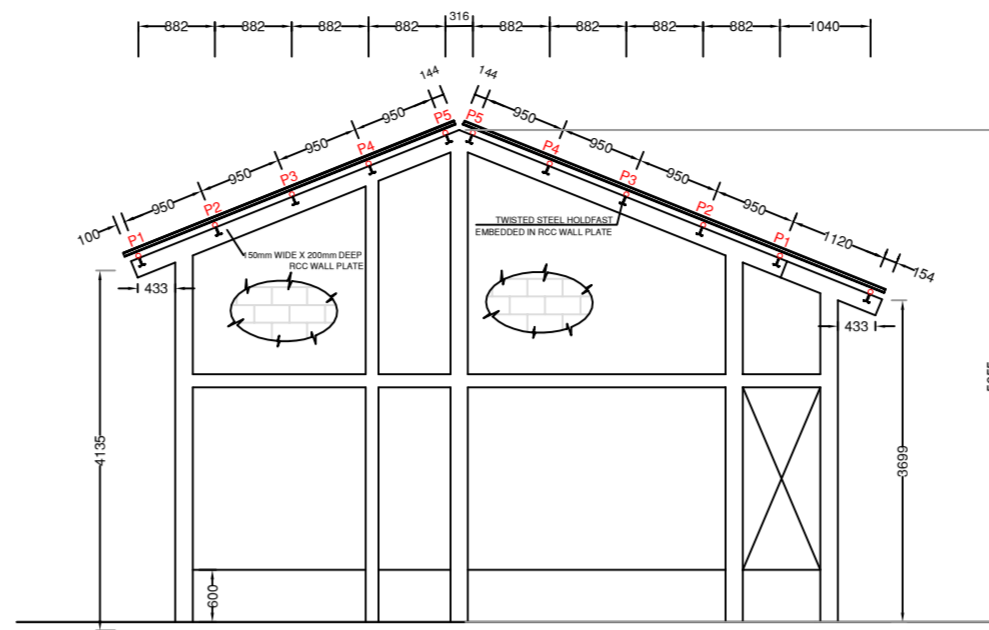
DRG. NO. CGM(H&C)SECURITY BARRACK/LKHEP/2020/03  
 DATE: NOVEMBER, 2020



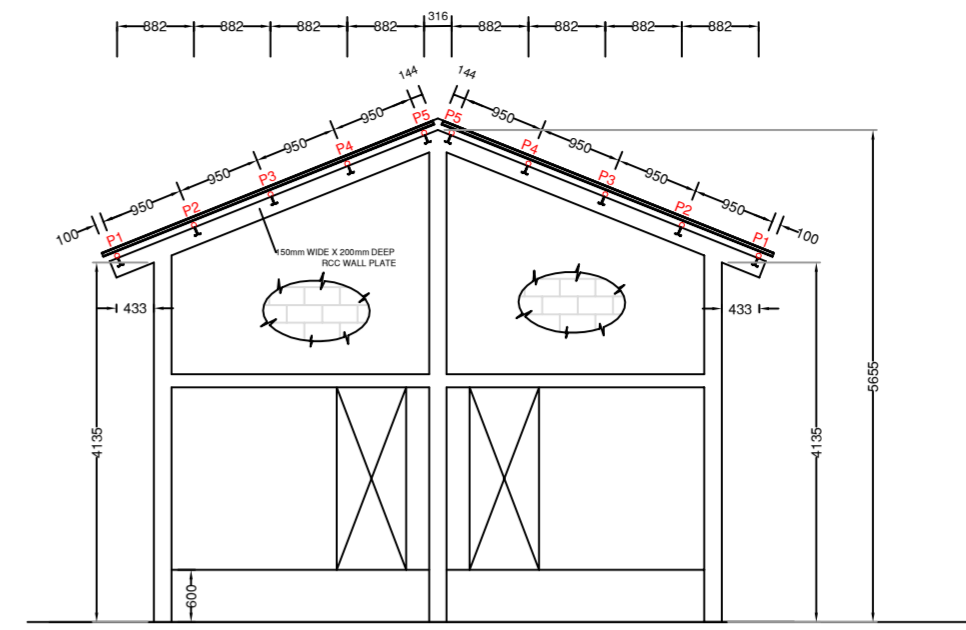
**GABLE WALL 1**



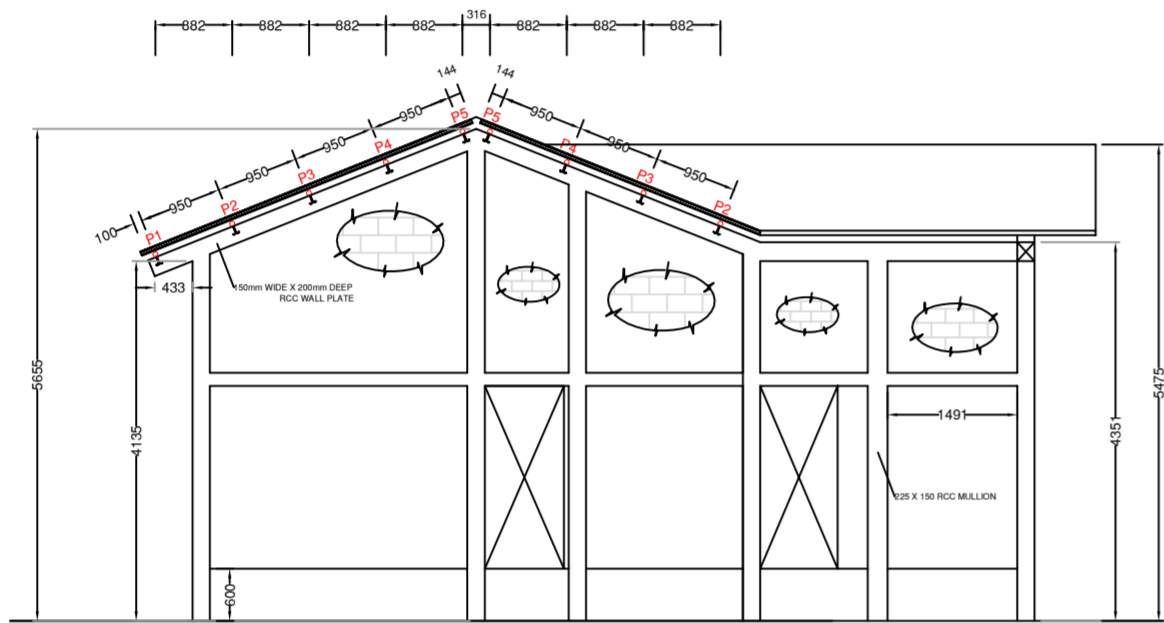
**GABLE WALL 2**



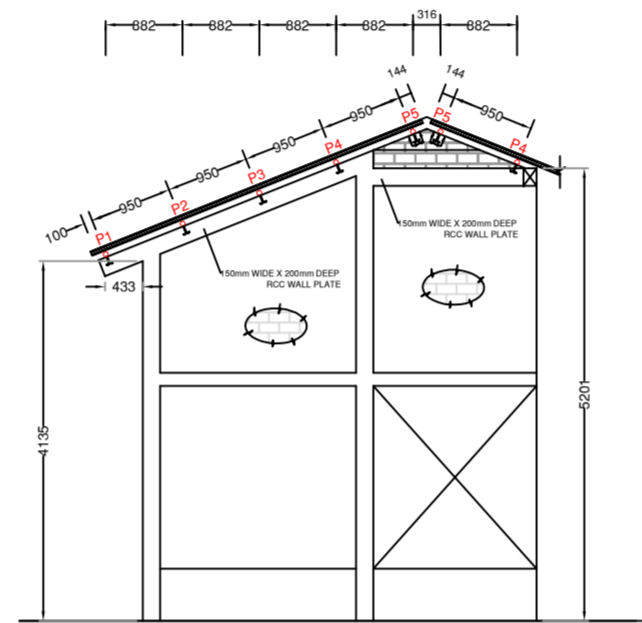
**GABLE WALL 3**



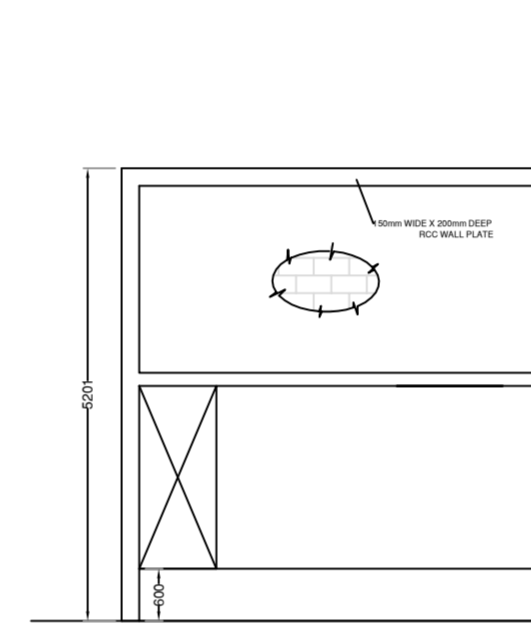
**GABLE WALL 4 & 5**



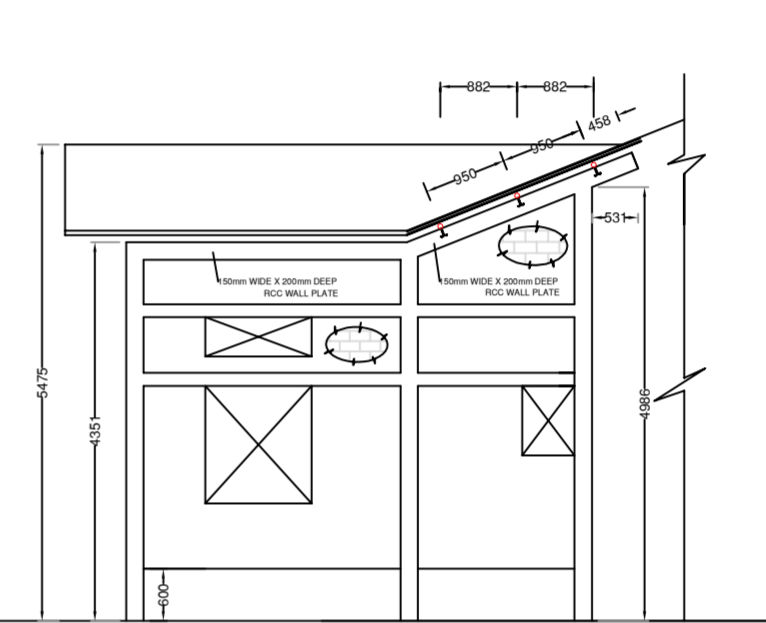
**GABLE WALL 6**



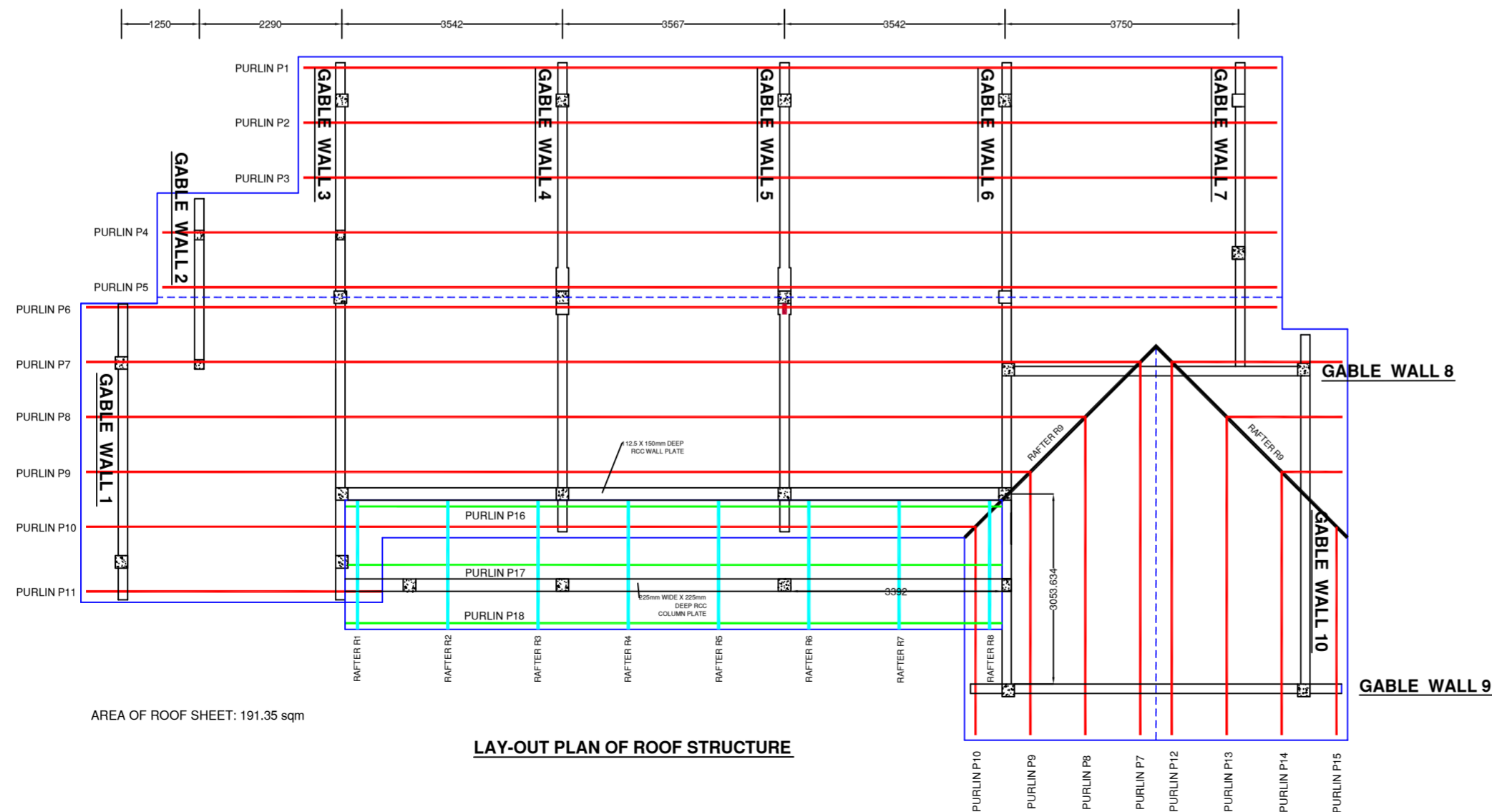
**GABLE WALL 7**



**GABLE WALL 8**

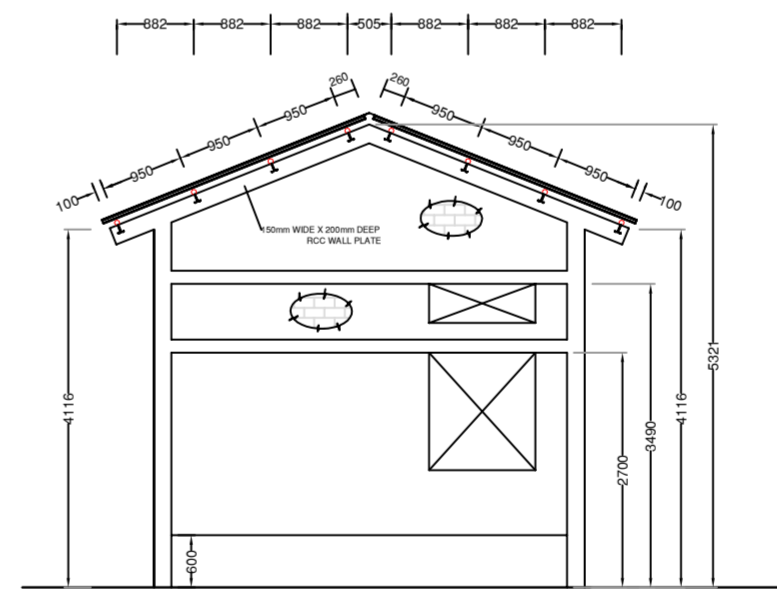


**GABLE WALL 10**



AREA OF ROOF SHEET: 191.35 sqm

NOTE: ALL DIMENSIONS ARE IN mm AND ONLY WRITTEN DIMENSIONS SHOULD BE FOLLOWED



**GABLE WALL 9**

**NOTE**  
**LINTEL ON TOP OF GABLE WALLS**  
 150 x 200mm  
 MAIN STEEL: 4-12mm torr  
 STIRRUP: 8@ 150mm c/c  
 112.5mm THICK BRICK  
 GABLE WALL IN CEMENT  
 MORTAR PROPORTION 1:5

**MEMBER SPECIFICATIONS**

DESIGNATION	OUTER DIA (mm)	THICKNESS (mm)	UNIT WEIGHT (kg/m)
50 NB MEDIUM	60.3	3.6	5.03
40 NB MEDIUM	48.3	3.2	3.56
32 NB MEDIUM	42.4	3.2	3.10

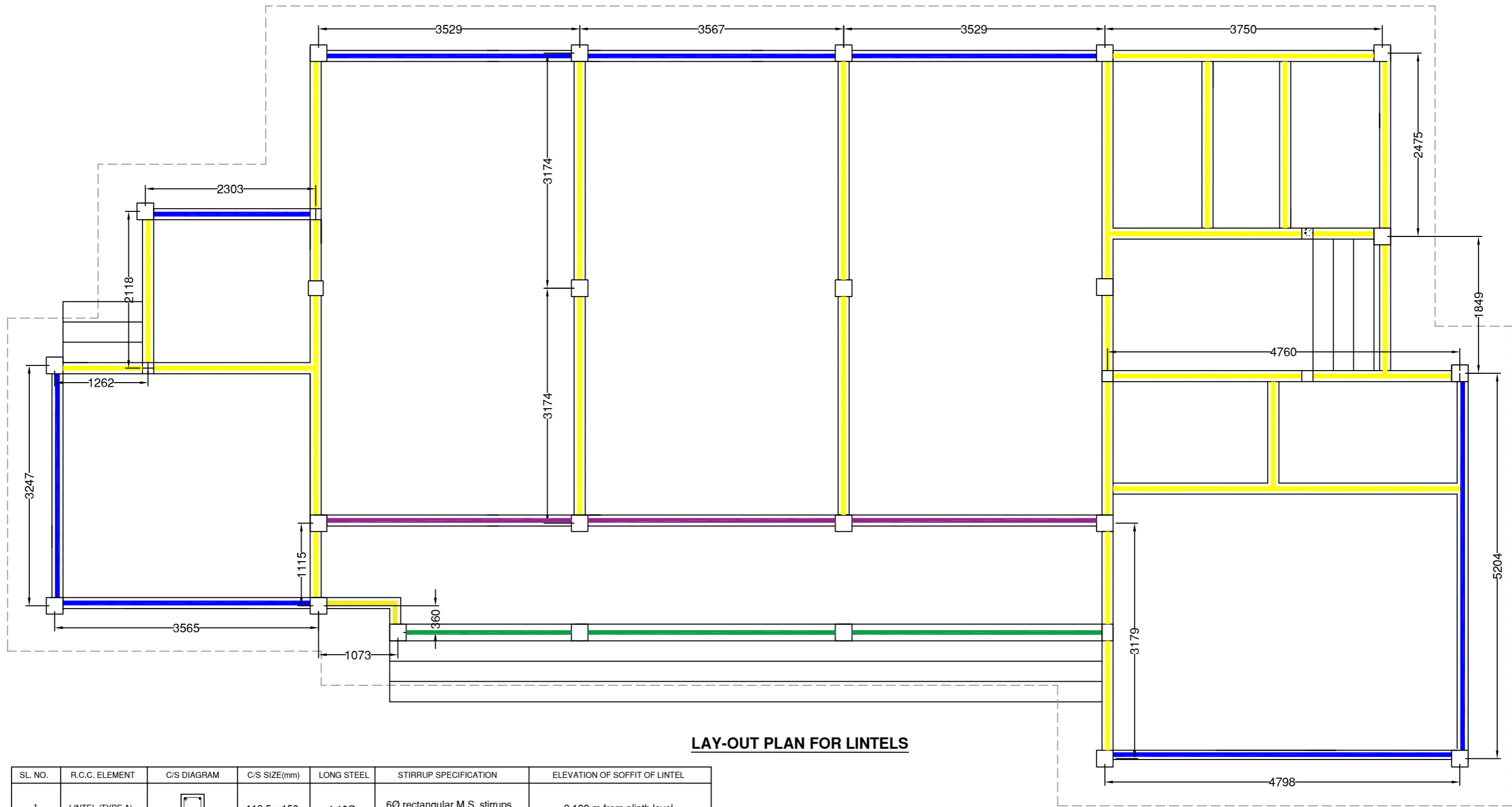
- REPRESENTS 50NB MEDIUM STRUCTURAL TUBE PURLINS FROM P1 TO P15
  - REPRESENTS 40NB MEDIUM STRUCTURAL TUBE VALLEY RAFTER R9
  - REPRESENTS 32 NB MEDIUM STRUCTURAL TUBE PURLINS FROM P16 TO P18
  - REPRESENTS 40NB MEDIUM STRUCTURAL TUBE RAFTER FROM R1 TO R8
- ALL STRUCTURAL TUBES USED FOR TRUSS SHALL BE OF MEDIUM GAUGE AND AS PER IS 1161:1998

ASSAM POWER GENERATION CORPORATION LTD.  
 OFFICE OF THE CHIEF GENERAL MANAGER  
 HYDRO & CIVIL, PALTANBAZAR, GHY-01  
 CONSTRUCTION OF SECURITY BARRACK AT LKHEP  
 LAY-OUT PLAN OF ROOF STRUCTURE AND DETAIL  
 OF GABLE WALLS

DRAWN BY: *K. Talukdar*  
 K. TALLUKDAR

APPROVED BY: *R. Biswanath*  
 R. BISWANATH, CGM

DRG. NO. CGM(H&C)/SECURITY BARRACK/LKHEP/2020/04  
 DATE: NOVEMBER, 2020



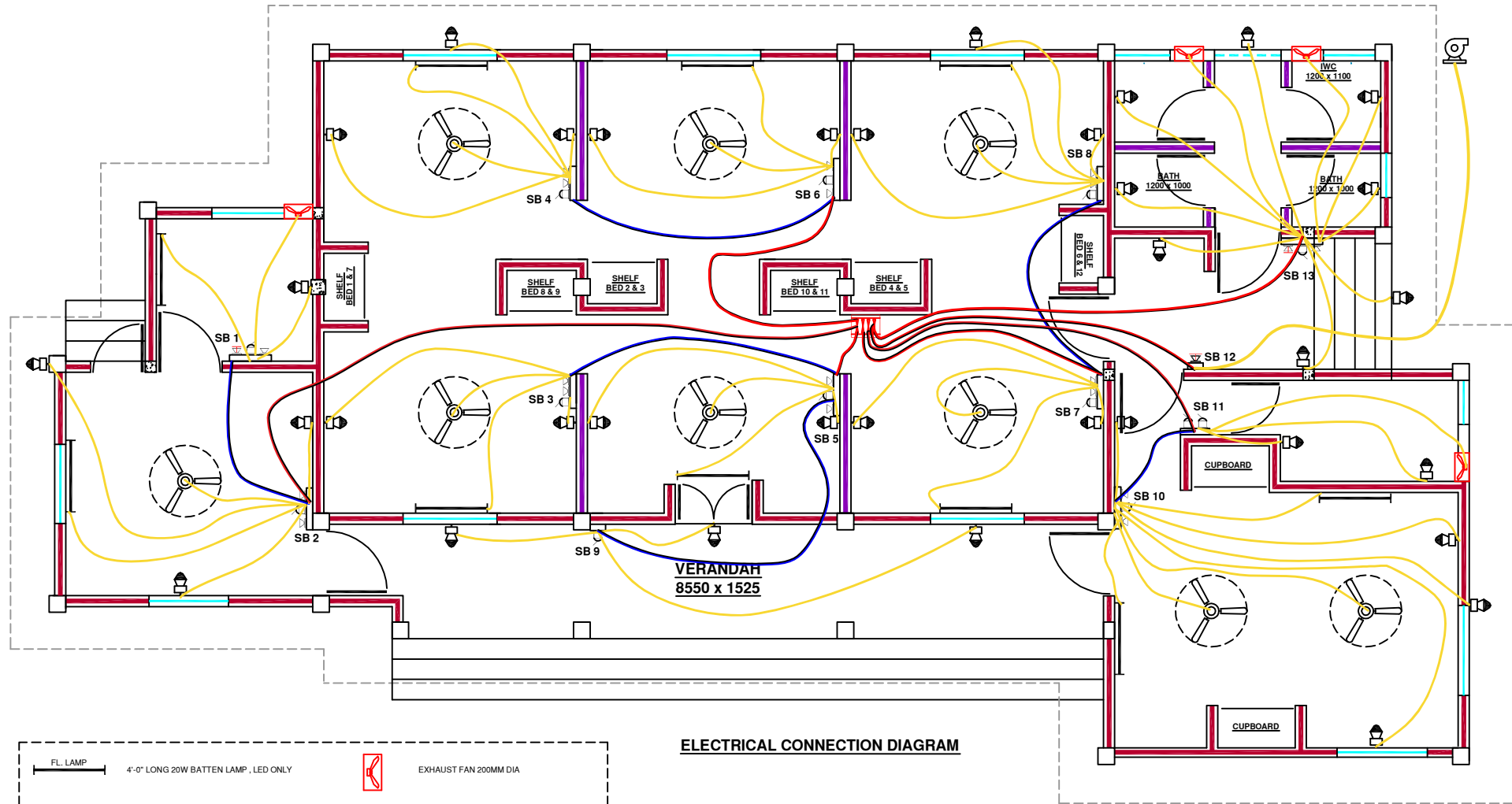
**LAY-OUT PLAN FOR LINTELS**

SL. NO.	R.C.C. ELEMENT	C/S DIAGRAM	C/S SIZE(mm)	LONG STEEL	STIRRUP SPECIFICATION	ELEVATION OF SOFFIT OF LINTEL
1	LINTEL (TYPE A)		112.5 x 150	4-10Ø	6Ø rectangular M.S. stirrups @ 150mm c/c	2.100 m from plinth level
2	LINTEL (TYPE B)		112.5 x 150	3-10Ø	6Ø triangular M.S. stirrups @ 150mm c/c	2.890 m from plinth level
3	WALL PLATE		112.5 x 150	4-12Ø	6Ø rectangular M.S. stirrups @ 125mm c/c	2.890 m from plinth level
4	COLUMN PLATE		225 x 225	4-12Ø	6Ø rectangular M.S. stirrups @ 125mm c/c	2.275 m from plinth level

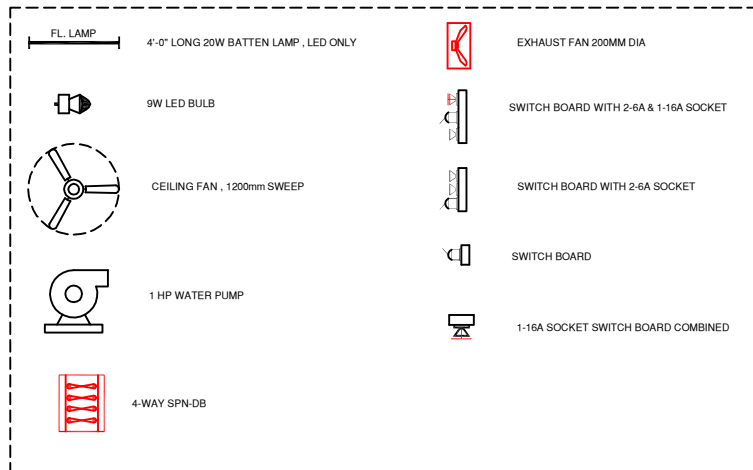
- INDICATES TWO SET OF LINTELS (TYPE A & TYPE B)
- INDICATES A SINGLE SET OF LINTEL (TYPE A)
- INDICATES ONE SET OF LINTEL (TYPE A) AND A WALL PLATE
- INDICATES THE COLUMN PLATE IN VERANDAH

NOTE: ALL DIMENSIONS ARE IN mm AND ONLY WRITTEN DIMENSIONS SHOULD BE FOLLOWED

ASSAM POWER GENERATION CORPORATION LTD.	
OFFICE OF THE CHIEF GENERAL MANAGER HYDRO & CIVIL, PALTANBAZAR, GHY-01	
CONSTRUCTION OF SECURITY BARRACK AT LKHEP	
LAY-OUT PLAN AND DETAIL OF LINTELS	
DRAWN BY:  K. TALUKDAR	APPROVED BY:  R. BISWANATH, CGM
DRG. NO. CGM(H&C)/SECURITY BARRACK/LKHEP/2020/05	
DATE	NOVEMBER, 2020



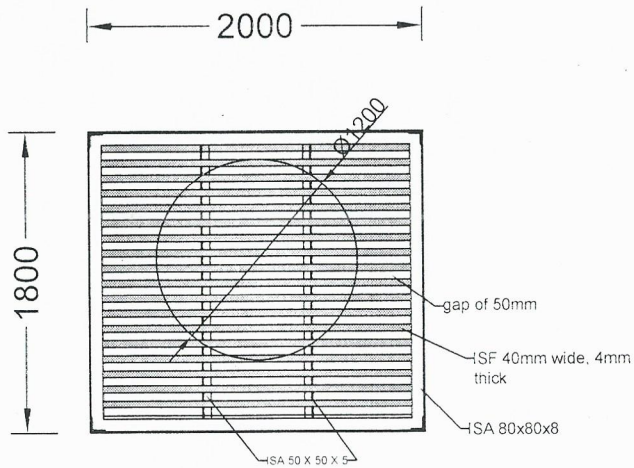
**ELECTRICAL CONNECTION DIAGRAM**



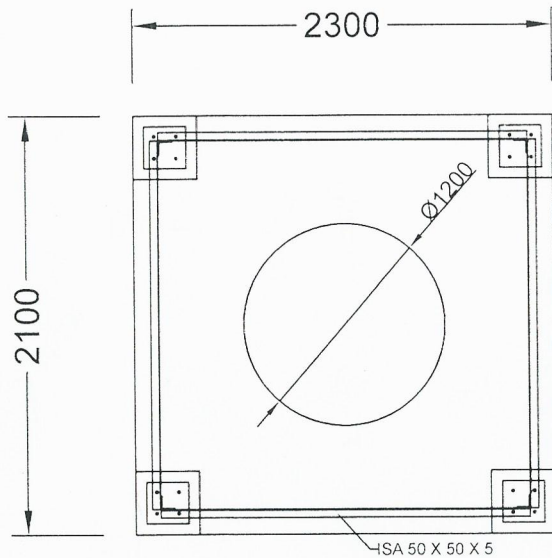
	CIRCUIT LINE
	CIRCUIT LOOP LINE
	CONNECTION FROM SWITCHBOARD TO RESPECTIVE LOADS

NOTE: ALL DIMENSIONS ARE IN mm AND ONLY WRITTEN DIMENSIONS SHOULD BE FOLLOWED

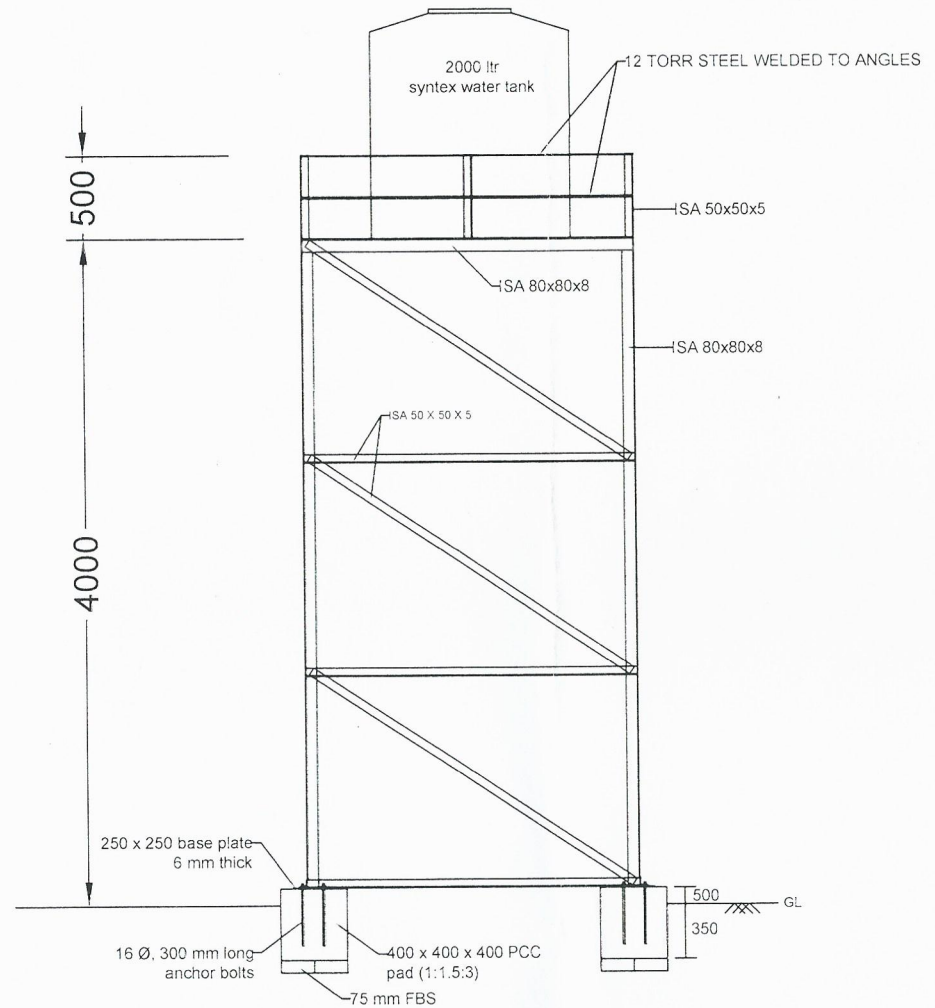
ASSAM POWER GENERATION CORPORATION LTD.	
OFFICE OF THE CHIEF GENERAL MANAGER HYDRO & CIVIL, PALTANBAZAR, GHY-01	
CONSTRUCTION OF SECURITY BARRACK AT LKHEP	
ELECTRICAL CONNECTION DIAGRAM	
DRAWN BY: K. TALLUKDAR	APPROVED BY: R. BISWANATH, CGM
DRG. NO. CGM(H&C)/SECURITY BARRACK/LKHEP/2020/06	
DATE	NOVEMBER, 2020



**PLAN OF WATER TANK PLATFORM**



**PLAN OF BASE OF WATER TANK STAND**



**ELEVATION OF WATER TANK STAND**

ASSAM POWER GENERATION CORPORATION LTD	
OFFICE OF THE CHIEF GENERAL MANAGER HYDRO & CIVIL, PALTANBAZAR, GHY-01	
CONSTRUCTION OF SECURITY BARRACK AT LKHEP	
DETAIL OF WATER TANK STAND	
DRAWN BY: <i>K. Talukdar</i> K. TALUKDAR (AMIC)	APPROVED BY: <i>R. Biswanath</i> R. BISWANATH (CGM)
DRG. NO. CGM(H&C)/SECURITY BARRACK/LKHEP/2020/07	
DATE	NOVEMBER 2020