

e-mail : bro-dtk@nic.in

**BY REGD POST**

Headquarters  
Chief Engineer  
Project Dantak  
PIN-931708  
C/o 99 APO

30003/DTK/19TF/ENQ-07/E3ES

23 Apr 2025

**FOR ATTENTION OF ALL BIDDERS**

There is an important instruction regarding place of submission of Bid due to lockdown and restricted movement of goods and services across the border, in view of Covid-19 on page No 8 of this RFP, amending the clause 2 of this RFP to that Extent.

**Appendices**

- |                                       |   |
|---------------------------------------|---|
| A : List of Stores                    | F : Format of Certificate of Acceptance                           |
| B : Technical Bid ('T' Bid)           | G : Undertaking Certificate                                       |
| C : Price Bid ('Q' Bid)               | H : Self declaration Certificate                                  |
| D : EMD Bank Guarantee Format         | J : Part Payment confirmation certificate                         |
| E : Performance Bank Guarantee Format | K : Technical specifications & drawing of Prefabricated Huts      |
|                                       | L : Technical specifications & drawing of Modular portable Toilet |

**INVITATION OF QUOTATION FOR SUPPLY OF CONSTRUCTIONAL STORES  
(PRE-FABRICATED SHELTERS & MODULAR PORTABLE TOILET)**

Dear Sir/Madam,

**INVITATION OF QUOTATION.**

1. This Project requires stores as per Appendix 'A' accordingly invites OTE for the purpose. The RFP can be downloaded from CPP Website : <https://eprocure.gov.in/eprocure/app>. The consignor can submit their offer by downloading the enquiries and sending it by Speed Post/Courier/Hand.
2. Quotations are invited in physical form containing 'T'-Bid (Technical bid) as per Appx 'B' and 'Q'-Bid (Price Bid) as per Appx 'C' for the above items. Please note that quotation will be received by the Headquarters Chief Engineer (P) Dantak, C/o 99 APO upto 1700 Hrs (BST) on **13 May 2025**. 'T'-Bid will be opened on **15 May 2025** at 1200 Hrs (BST). After opening of 'T'-Bid and its evaluation 'Q'-Bid will be opened for the successful bidders.
3. Firms or their duly authorized representative who have submitted their quotation and who wish to be present at the time of opening of quotation may visit the office of Headquarters Chief Engineer (P) Dantak, C/o 99 APO at the above mentioned time and date for viewing the quotation opening process.
4. Bidding procedure shall be single stage-two bid system and bid documents are to be prepared in two parts as under:-  
  
Part-I (Technical Bid : 'T' Bid) at Appendix 'B'.  
Part-II (Price Bid : 'Q' Bid) at Appendix 'C'.
5. **Part-I Technical Bid ('T' Bid).**
  - 5.1. The technical bid comprising of the following details shall be forwarded in a separate envelope by the **Manufacture/Authorized Dealer/Consignor** duly mentioning the Name of the firm, Enquiry reference and date of opening etc on top of the envelope.
    - (a) Details such as Name of firm, Address Contact number GSTIN number, Email, PAN No and other Registration details with HQ DGBR / Project Dantak / Any other BRO Project / Ministry of Defence Govt of India / Govt of Bhutan as per format enclosed at Appendix 'B' to the enquiry be provided. Original Manufacturers, PSUs and consignor enlisted with Central Purchase Organization and National Small Industries Corporation also to provide details of their registration in Appendix 'B'.

Contd.. 2/-

(b) In case if the firm is not enlisted / Registered with HQ DGBR or Project Dantak as a registered contractor/ consignor or with Ministry of Defence Govt. of India or Govt. of Bhutan or CPO or NSIC, details of EMD alongwith original copy of EMD be provided as per Ser No 9 of Appx 'B'. PSUs, Original Manufacturers, Original Manufacturers of Bhutan registered with Dantak/ HQ DGBR/ RGoB are exempted from submission of EMD on producing of necessary document/certificates, in this regard.

(c) OEM/Authorised Dealer/ Consignor should have completed delivery of supply order of the similar items to any Govt agency/BRO projects in last five financial years for the SO amt as given below.

(i) 03 (Three) similar SOs with cost of supply order not less than 40% of the estimated cost of stores demanded in the subject Enquiry.

OR

(ii) 02 (Two) similar SOs with cost of supply order not less than 50% of the estimated cost of stores demanded in the subject Enquiry.

OR

(iii) 01 (One) similar SOs with cost of supply order not less than 80% of the estimated cost of stores demanded in the subject Enquiry.

Copy of such supply order to be mandatorily enclosed with 'T' Bid failing which the firm will not be considered for opening of 'Q' Bid. Firms enlisted with Project Dantak for supply of same items need not to submit the copy of supply order of similar items.

(d) Manufacturers and authorised dealer/Consignor should provide latest 'Test Certificates' issued by Chief Quality Assurance Establishment (CQAE)/ Senior Quality Assurance Establishment (SQAE), Ministry of Defence or any Government authorized Testing Laboratory on Quality of Pre-Fabricated Shelters & Modular Portable Toilet manufactured by their firm. Manufacturer should provide undertaking/ certificate with the 'T' Bid that the Test Certificates will be provided during the bulk supply of these Pre-Fabricated Shelters & Modular Portable Toilet.

(e) All materials will conform to IS/ BIS specifications as applicable. Manufacturer and authorised dealer should provide certificates stating that the part incorporated in manufacturer of Pre-Fabricated Shelters & Modular Portable Toilet conform to their relevant IS/BIS specifications. Certificate to be enclosed with 'T' Bid.

## 5.2 Eligibility Criteria for Technical Evaluation

5.2.1 The manufacturers/ authorised dealer/Consignor who have submitted the following documents in their 'T' Bid will only be eligible technically and for opening of their 'Q' Bid:

(a) Fulfillment of criteria & submission of documents as laid down at Para 5.1.

(b) Copy of tender documents duly signed and stamped on each page.

(c) Complete details as per Appendix 'B' of enquiry.

(d) Registration details:

(i) Registration/Enlistment No

(ii) With whom registered/enlisted

(iii) Letter reference under which registered/enlisted. (Enclose copy)

Enlistment / Registration details with HQ DGBR / Project Dantak / Ministry of Defence, Govt. of Bhutan/CPO/NSIC be clearly mentioned or EMD be submitted by non enlisted/non registered firms. EMD shall be deposited in case if the authorised dealer is registered with any other Project of BRO.

(e) Original Manufacturers in Bhutan/India will have to submit EMD in case if they are not enlisted/ registered with HQ DGBR/Project Dantak or Government of Bhutan.

(f) Copy of undertaking certificate duly signed (Format as per Para 13 (a) (iv) of RFP).

(g) Copy of Importer-Exporter Code (IEC).

(h) Complete address of the factory location of the manufacturer.

5.3. The bidder should meet all the technical evaluation criteria in order that the bid is considered to be technically responsive and the bidder qualifying to have its commercial bid opened. **BANNED FIRMS WILL NOT BE ENTERTAINED.**

5.4 **REJECTION OF VENDORS**

(a) **FIRMS APPLYING FOR THE SUBJECT TENDER WILL BE SCRUTINISED BASED ON THEIR PAST PERFORMANCE.**

(b) **VENDORS WHO ARE BANNED FOR PARTICIPATION IN THE TENDER ENQUIRY BY ANY GOVERNMENT DEPARTMENT IN INDIA/ BHUTAN NEED NOT APPLY. SCRUTINY OF VENDORS WILL BE DONE STRICTLY ON THE BASIS OF THEIR PERFORMANCE WITH GOVERNMENT DEPARTMENTS.**

(c) **SELLER SHOULD SUBMIT ALL ABOVE DOCUMENTS WITH BID IF ANY SELLER SUBMIT MISLEADING/FALSE INFORMATION IN BIDDING DOCUMENTS, SUCH SELLER WILL BE LIABLE TO BE DISQUALIFIED IN IT. BID NO REPRESENTATION IN THIS REGARDS WILL BE ENTERTAINED.**

6. **Part-II Price Bid ('Q' Bid).**

6.1 The price bid ('Q' Bid) shall be forwarded in a separate envelope by the Manufacturer/ Authorized Dealer/ Consignor duly mentioning the name of the firm, Enquiry reference and date of opening on top of the envelope.

6.2. **Part-II Price Bids ('Q' Bid).** Price Bid shall be quoted by bidder as per the format attached as Appendix 'C'.

6.3. **'Q'-Bid Evaluation.** Price Bid of non qualified bidders, based on evaluation of 'T' Bid will not be opened.

6.4 Price Bids shall only be furnished in attached format forming part of the bid documents.

7. **'T' Bid and 'Q' Bid be submitted in two separate envelopes duly superscribed and both these sealed covers are to be put in a bigger cover which should be sealed and duly superscribed. Consignor/ bidders who offer the Enquiry documents of 'T' Bid and 'Q' Bid in a single envelope will be rejected. On top of both 'T' Bid and 'Q' Bid, details such as Name of Manufacturer/ authorised dealer of the items, Enquiry Reference and date of opening etc will be mentioned clearly.**

8. No conditional offer other than conditions mentioned above will be entertained.

9. All necessary licenses, consents and permissions for import/ export from Govt/Semi Govt/ Civil agencies in India & Bhutan for the performance of obligations under this supply orders shall be arranged by the seller/ consignor.

10. The supplier/ consignor shall provide and pay for usage of labour, utilities, transportation and other miscellaneous services necessary for proper execution and completion of supply order at the designated FOR.

11. The complete expenses on preparation and submission of quotation shall be borne by the firms and it shall have no claim on this account.

**Earnest money and security deposit.**

12. Manufacturer/Firms who are NOT enlisted as per Para 5.1 (b) of this RFP will have to submit Earnest Money of Amount in Rs **3,41,200/-** (Rupees Three lakh forty one thousand two hundred only) in the form of fixed Deposit receipt, or Bank guarantee from any of the commercial banks drawn in favour of **Chief Engineer, Project Dantak** payable at SBI Hasimara having validity/maturity period of Six Months and will be enclosed with Technical Bid. Earnest Money of un-successful **OEM/ Authorised Dealer/Consignor** shall be returned to them immediately on placing of Supply Order. Format of EMD as per Appendix 'D' enclosed. **The MSME companies having valid Udyog Number, the EMD exemption as per DPM will be applicable.**

13. **Performance Bank Guarantee.** Performance Bank Guarantee in the form of Bank Guarantee should be submitted by your firm @ 5% of the value of Supply Order amount within 30 days of receipt of the Supply Order, to HQ 19 BRTF, Phuentsholing. The Fixed Deposit Receipt or Bank Guarantee Bond be prepared having validity/maturity period of sixty days beyond the date of completion of all contractual obligations of the supplier including warranty obligation (Ref Rule-171 of GFR 2017). The PBG should be drawn in favour of HQ 19 BRTF payable at SBI, Hasimara. On receipt of Performance Bank Guarantee, the EMD will be returned to the firm. The Performance Bank Guarantee will be released after one month of release of completed payment against the supply order. If required, the extension of validity of Performance Bank Guarantee will be sought accordingly. Format of Performance Bank Guarantee as per Appendix 'E' enclosed. **In terms of Para 6.1.2 (i) of Manual of Procurement of Goods (second edition 2024), submission of PBG for an Supply Order amount upto twenty five (25) lakh is not required.**

(a) **Clause for Evaluation of L1.** To determine the L1, the quoted rates of who have been found technically "Substantially Responsive". 'Q' Bid shall be evaluated as under:-

(i) **Ranking of the commercial bid will be based on the lowest cost of sum total of all the items to be delivered at Det 'A' 504 SS&TC (GREF) Samdrup Jongkhar (Bhutan) considered separately. Cost of item will comprise of Basic Cost of item, Freight insurance, except levies, Taxes and Duties levied by Central/ State Local Govts such as Octroi/ Entry Tax, etc as quoted by the Bidder in his 'Q' Bid. All these elements shall mandatorily be indicated separately. Firms will have to quote for every item, failure to quote for any item will result in the disqualification of the firm in the 'Q' bid.**

(ii) Any Taxes and Duties not mentioned clearly in 'Q'-Bid will not be counted and the Bidder shall not have any claim on account of such omissions on his part.

(iii) **GST/Sales Tax are not applicable for Project Dantak.** Sales tax exemption certificate will be issued to consignor. For any query regarding **exemption of GST on import of goods and services from India to Bhutan**, kindly refer to the following websites for detail information.

(aa) [www.cbec.gov.in/htdocs-cbec/gst/index](http://www.cbec.gov.in/htdocs-cbec/gst/index).

(ab) [www.cbec.gov.in/resources/htdocs-cbec/gst/notfctn-42-igst-rate-english.pdf](http://www.cbec.gov.in/resources/htdocs-cbec/gst/notfctn-42-igst-rate-english.pdf)

(ac) [www.cbec.gov.in/resources/htdocs-cbec/gst/notfctn-300CGST-rate-english.pdf](http://www.cbec.gov.in/resources/htdocs-cbec/gst/notfctn-300CGST-rate-english.pdf)

(iv) **For Indian Consignor Only.** As supply to Project Dantak located outside India, no GST is applicable. Indian consignor/ Bidder shall attach undertaking certificate as per the following format mandatorily:-

#### UNDERTAKING CERTIFICATE

"It is certified that the goods / materials given in the Enquiry No. 30003/DTK/19TF/End-07/E3ES dt 23 Apr 2025 of HQ CE (P) Dantak will be supplied by me/ our firm as export and for use in Bhutan. It is declared that no GST cost has been included by me in the rates quoted in above mentioned enquiry".

Signature with date :  
Name of the bidder :  
Name of firm with address :

(v) Certificate on account of GST as per Rule No 16 (1) of IGST Act 2017 will be issued on receipt of stores as format of certificate is as given under:-

#### GST : ZERO RATED SUPPLY CERTIFICATE

(aa) It is certified that the goods supplied by your firm against SO No 30003/DTK/19TF /SO.../E3ES dated \_\_\_\_2025 for the cost of Rs\_\_\_\_/- (Rupees \_\_\_\_\_ only) is a zero rated supply as per **GST Rule No 16 (1) of IGST Act 2017** as the goods were supplied as an export and to be used in Bhutan by this Project.

(ab) It is further certified that no amount was paid to your firm by this Project on account of GST

Consignee Unit

(b) **Force Majeure Clause.** Should any force majeure circumstance arise, each of the contracting party shall be excused for the non fulfillment or for the delayed fulfillment of any of its contractual obligations, if the affected party within **14 days** of its occurrence informs in a written form the other party. Force majeure shall mean fires, floods, natural disasters or other acts such as war, turmoil, strikes, sabotage explosions, and quarantine restriction beyond the control of either party. **In the event of either party being rendered unable by Force Majeure to perform any obligations required to be performed by them under the purchase order the relative obligations of the party affected by such force majeure shall upon notification to the other party be suspended for the period during which force majeure event lasts. The cost and loss sustained by the either party shall be borne by the respective parties. If the force majeure conditions persist for a period exceeding 90 days the Purchaser reserves the right to cancel the purchase order in full or in part.**

14. **Consignee, Delivery & Delivery Period.**

(a) **Supply of all Pre-Fabricated Shelters & Modular Portable Toilet will have to be completed within 90 days** from the date of approval of pilot sample. The stores are required to be delivered as per Appendix 'A' attached to this enquiry to the **consignee unit Dett 'A' 504 SS&TC (GREF), Samdrup Jongkhar (Bhutan).** The responsibility for loading and unloading of stores including transit loss shall rest with the consignor. The firm who are unable to supply the desired items within original delivery period due to any reason and are contemplating/seeking extension of original delivery period must send their request by email giving detailed reason for seeking original delivery period extension and the request should reach seven clear working days before expiring of original delivery period failing which the supply order will be considered to be terminated and firm will be responsible for the same.

(b) The consignor should acquaint himself beforehand to the route from his manufacturing unit to the consignee locations i.e Dett 'A' 504 SS&TC (GREF), Samdrup Jongkhar (Bhutan) and plan the transportation of the Pre-Fabricated Shelters & Modular Portable Toilet, considering the height restriction barriers/ overhead bridges/ underpasses / railway bridges etc enroute that may pose problem during transportation of the Containerized Shelters and thus may required some modification in the vehicle. Delay in delivery due to any restrictions enroute will not be entertained and no extension to the delivery period will be given based on the above mentioned factor.

(c) **Part delivery of Pre-Fabricated Shelters & Modular Portable Toilet (as specified in Appx 'A') will be accepted by the consignee as per terms and condition given on Para 26 iff desired by the consignor. Following shall be submitted with each lot as specified herein:-**

- (a) **Ink signed copy of invoice in original**
- (b) **CRVs in duplicate**
- (c) **Guarantee/ warranty certificate**
- (d) **Purchase Vouchers**
- (e) **Test Certificates from Approval Govt lab (if applicable)**
- (f) **Copy of Performance Bank Guarantee**
- (g) **Prescribed pre-stamped bills in triplicate.**
- (h) **Manufactures test certificate.**

**Price Adjustment.**

15. No adjustment in the rates after the date of opening of the quotation on account of any increase/decrease in the cost of input or on account of any statutory increase in any taxes or duty is admissible.

16. **Prices.** All the rates/prices mentioned in the purchase order shall remain firm throughout the delivery/ shipment of the goods/ performance of the services. Price escalation on any score whatsoever will NOT be entertained.

**Manufacturer/Authorized Consignor /Distributor.**

17. In case your firm is an **original manufacturer of the product or an authorized dealer** a certificate to this effect shall be enclosed alongwith product catalogue and company price list. Discount if any offered thereon shall be specified clearly. If the product is proprietary in nature, certificate to this effect that the firm is sole **OEM/ Authorised Dealer** of the product shall be enclosed with the offer.

### Freight/ Warranty

18. **Freight.** Packaging and freight will be complete responsibility of the consignor. Damages/ losses in transit shall be the responsibility of the consignor upto the delivery location specified by the respective consignees. No defence vehicles will be provided to transport the stores. Stores will be securely packed without any additional cost to the Govt. to avoid losses or damages during transit so as to reach this consignee, in perfect serviceable and fit for use condition. The consignor shall remain responsible for adequacy of packages during transit. The packages shall be marked with the Supply order and other necessary details for easy identification at the consignee's end. The consignor will be responsible for unloading at FOR and to ensure that the stores are delivered in sound condition without any damage.

19. **Warranty/Guarantee.** The stores supplied against the supply order shall bear a warranty against defective materials for a period of **One year** or as specified by the company/ consignor/firm (whichever is higher) from the date of completion of the supply order. In case of manufacturing failure or defect in any component within the warranty period, the consignee shall inform the consignor for joint inspection. Within a period of one week of the receipt of such information, the rejected material shall be removed and replaced by the consignor at the site at his own expense and no extra payment shall be made on this account. All stores to be supplied should be free from all defects and faults in material workmanship and manufacture. They should be of the highest grade and consistent with the established and generally accepted standards for material of the type used and in full conformity with the specifications, drawings or samples and shall, if operable, operate properly. The Consignor shall be bound to furnish a clear written warranty regarding the same. In the event of the ultimate consignee in Bhutan not finding the stores in accordance with the order, the Consignor will be required to replace them free of cost inclusive of all freight and handling charges. Such replacement will be done within **90 days** to the claim report raised by the Consignee. These standard conditions will also apply in respect of replaced stores.

### TERMINATION OF PURCHASE ORDER

20. **Termination for Non-performance.** The Purchaser without prejudice to any other remedy for breach of purchase order, by giving a written notice for non-performance to the Seller/consignor, may terminate the purchase order in whole or in part for following reasons:-

- (a) When the supplier fails to honour any part of the supply order including failure to deliver the supply order stores/ render services in time.
- (b) When the contractor is found to have made any false or fraudulent declaration or Statement to get the supply order or he is found to be indulging in unethical or unfair trade practices.
- (c) When both parties mutually agree to terminate the supply order.
- (d) When the item offered by the supplier repeatedly fails in the inspection and/or the supplier is not in a position to either rectify the defects or offer items conforming to the stores quality standards.
- (e) Any special circumstances, which must be recorded to justify the cancellation or termination of a supply order.
- (f) If the Seller/ consignor, in the either of the above condition, does not cure his failure within a stipulated period of 30 days (or such a longer period may authorize by the Purchaser in writing) after receipt of notice of non-performance form the Purchaser.

### Contact Address.

21. For any further information/clarification on the subject the following Officer may be contacted during the office hours (i.e. 0830 Hrs to 1700 Hrs BST except Sunday/Holidays):-

Staff Officer-I (Resources)  
Headquarters  
Chief Engineer  
Project Dantak  
Tele No .009752351082/86/88  
e-mail : bro-dtk@nic.in

22. The accepting officer does not bind himself to accept the lowest quotation or any other quotation and reserves the right to accept or reject any of the quotation either in part or in full without assigning any reasons what so ever thereto.

23. No purchase against this enquiry is guaranteed.

24. The quantities of stores given is/are guidelines and may be enhanced or decreased upto +/- 25% according to our requirement at the time of placing of supply order.

25. Quotation received after the expiry of time and date specified in Para 02 above will not be entertained.

26. **Part payment & delivery schedule.** Delivery schedule of Pre-Fabricated Shelters & Modular Portable Toilet will be completed in three lots within the time period as mentioned below iff part payment is required by the consignor.

(a) Part payment as per details given below (excluding compulsory deductibles) will be paid to the consignor after successful delivery of each lot (refer Para 14). Reference is made to Rule 172 (2) of the General Financial Rules (GFR) 2017. In case of non fulfillment of lot wise delivery schedule, LD clause (lot wise) as per Para 30 will be applicable.

(b) The part payment if applicable shall be made as per the following:-

Ser No	Details	Lot No	Part payment on completion of supply & acceptance of same by CFA/ BOO	Supply to be completed by
(i)	On completion of supply of Pre-Fabricated Shelters & Modular Portable Toilet amounting to 35% cost of total Supply Order.	1 (One)	30 %	Within 45 days of approval of pilot sample.
(ii)	On completion of supply of Pre-Fabricated Shelters & Modular Portable Toilet amounting to 35% cost of total Supply Order.	2 (Two)	30 %	Within 60 days of approval of pilot sample.
(iii)	On completion of supply of Pre-Fabricated Shelters & Modular Portable Toilet amounting to balance 30% cost of total Supply Order.	3 (Three)	40 %	Within 90 days of approval of pilot sample.

27. **Repeat Order Clause.** The Consignee may order upto 50% qty of SO within six months from the date of successful completion of the supply against this contract and at the same cost, terms and conditions of the contract. The Consignor is bound to supply the material.

28. **Pilot Sample.** The manufacturer will erect a Pilot Sample of 01x Modular Portable Toilet and get the complete stores of 19.52 Mtr x 4.88 Mtr with clear height of 2.74 Mtr with verandah 1.20 mtr wide of Pre-Fabricated Shelters inspected at their premises or at F.O.R. location by the Consignee or their representative and intimate the consignee within 20 days of placing the Supply Order. During the time of inspection, the manufacturer will submit test certificate obtained from any of the agencies mentioned at Para 5 (d) of RFP. Pilot sample will be inspected and further action taken within 10 days of inspection of Prefabricated shelter and modular portable toilet. Only on approval of Pilot Sample by the representative of the consignee on a formal letter, bulk supply of Prefabricated Shelters will commence. The consignee is empowered to cancel the supply order if the "Pilot Sample" is not found fit to be approved.

29. **Inspection.** The stores supplied will be inspected by the BOO detailed by the CFA or his authorized rep at time of delivery and should be strictly according to the specifications provided in the supply order. In case the items are found not according to specifications/satisfaction of the Inspecting Officer, the stores are liable to be rejected and will have to be replaced within 30 days without any additional cost by the consignor /firms.

30. **LD** The consignor shall be liable to pay liquidated damages and not as a penalty, a sum equivalent to ½% (Half Percent) of the contract/supply order price per week of delay or part thereof. The consignor liability of liquidated damages shall not exceed maximum of 10% (Ten percent) of the contract price. If the delivery is delayed beyond 10 weeks, the consignee may at his own option terminate the contract / supply order.

31. **Validity** The rates should be valid for 120 days wef the date of submission of the offer.

32. Items should be of same Make/ Brand/ Specification as mentioned in the appendix attached.

33. Mentioning of GSTIN Nos and quoting rates in words is compulsory, without which enquiry will not be considered for placing supply order. Clear description/specification of items is also mandatory.

34. Rates be quoted for items as per specification in enquiry only.

35. **EMD.** In case no supply of stores against this supply order, then EMD/ Performance security/ Bank Guarantee will be ceased by department.

36. Acceptance certificate forward to HQ CE (P) Dantak against this enquiry Supply Order No 30003/DTK/19TF/SO- /E3ES dated\_\_\_\_/ /2025. Format as per Appendix 'F'

**Special Conditions.**

37. The specification overall dimensions of the Pre-Fabricated Shelters & Modular Portable Toilet with water supply staging and the size of sections, all members, doors, windows, structural steel members, other steel sections shall conform to the drawings as per Appendix K & L.

38. In case of any ambiguity/ variation between Drawings and Technical Specifications, the details given in drawings will be final.

39. For completeness of work, if any fitting or items which may not be specially mentioned in the specification but which are necessary for commissioning of Pre-Fabricated Shelters & Modular Portable Toilet are to be provided by the consignor without any extra charge.

40. Four sets of Erection Tools will be provided by the Manufacturer and consignor to the consignee in separate MS boxes with proper packing.

41. **Scope of Work.** The scope of work shall be supply of Pre-Fabricated Shelters & Modular Portable Toilet of Size and specification as per Appendix K & L respectively for BRO Personnel and Casual Paid Labours at various locations in AOR of 19 BRTF under Project Dantak in the Bhutan. The contractor shall supply the item mentioned in Appendix 'A' at the F.O.R. place mentioned in accordance to Supply Order placed by HQ CE (P) Dantak, as per particulars specifications, including conveyance etc complete in all respects.

42. In addition to the existing facility/provision of receiving bids at HQ CE (P) Dantak and as mentioned in clause 2 of this RFP, a facility has been created on Indian side border town of Jaigaon to facilitate submission of bids by Indian Bidders. The bidders can exercise following option and address:-

(a) **Existing facility at HQ CE (P) Dantak Thimphu:-**

(i) **If sending bids by post:-**

HQ CE (P) Dantak

PIN – 931 708

C/o 99 APO

(ii) **Manual Submission** - Dropping of bids in tender box kept in HQ CE (P) Dantak premises.

(b) **Additional facility at Jaigaon:-**

(i) **If sending bids by post:-**

OIC Liaison Cell

Supervisor Mess, HQ 19 BRTF (GREF)

Jaigaon (W.B.)

PIN – 736 182

Contact details/ Phone No – 9970889254

(ii) **Manual submission-** Dropping of bids in tender Box kept in Supervisor Mess, HQ 19 BRTF (GREF)Jaigaon (W.B.)

Address:-

OIC Liaison Cell

Supervisor Mess, HQ 19 BRTF (GREF)

Jaigaon (W.B.)

PIN - 736 182

Contact details/ Phone No - 9970889254

**Please take acknowledgement from OIC Liaison Cell in case of manual submission at Jaigaon**

**Note:-** Last date and time for submission of bids will be same for both the location and bids from both the places will be collected and opened on fixed date by the nominated BOO at HQ CE (P) Dantak

Your's faithfully

(APS Chauhan)  
Lt Col  
SO-1 (Res)  
for Chief Engineer

Contd. 9/-

LIST OF STORES

HQ CE (P) Dantak Eng No 30003/DTK/19TF/ENQ- 07 /E3ES dt 23 Apr 2025

Ser No	Nomenclature	A/U	Qty
<b>F.O.R : Dett 'A' 504 SS&amp;TC (GREF) Samdrup Jongkhar, Bhutan</b>			
1	Supply of Prefabricated Huts of size 19.52 Mtr x 6.10 Mtr with clear height of 2.70 Mtr (without verandah) and roof of puff panel with details of Prefabricated hut to be as per tech specifications and drawing attached. <b>Detail technical specifications and drawing as given in Appendix 'K' (Annexure-I) &amp; (Annexure-II) respectively.</b>	Nos	3
2	Supply of Prefabricated Huts of size 7.32 Mtr x 6.10 Mtr with clear height of 2.70 Mtr (without verandah) and roof of puff panel with details of Prefabricated hut to be as per tech specifications and drawing attached. <b>Detail technical specifications and drawing as given in Appendix 'K' (Annexure-III) &amp; (Annexure-IV) respectively.</b>	Nos	10
3	Supply of Prefabricated Huts with partition of size 19.52 Mtr x 6.10 Mtr with clear height of 2.74 Mtr with verandah 1.52 mtr wide in front and roof of puff panel with details of Prefabricated hut to be as per tech specifications and drawing attached. <b>Detail technical specifications and drawing as given in Appendix 'K' (Annexure-V) &amp; (Annexure-VI) respectively.</b>	Nos	5
4	Supply of Prefabricated Huts with partition of size 19.52 Mtr x 4.88 Mtr with clear height of 2.74 Mtr with verandah 1.20 mtr wide in front and roof of puff panel alongwith toilet fitting with details of Prefabricated hut to be as per tech specifications and drawing attached. <b>Detail technical specifications and drawing as given in Appendix 'K' (Annexure-VII) &amp; (Annexure-VIII) respectively.</b>	Nos	2
5	Supply of Modular portable Toilet size 3ft length x 3ft width x 8ft height, door 3ft width alongwith 200 ltr capacity water tank fixed suitably on the roof of the toilet with details of Modular portable toilet to be as per specifications and drawing attached. <b>Detail technical specifications and drawing as given in Appendix 'L' (Annexure-I) &amp; (Annexure-II) respectively</b>	Nos	10

Registration No. of Firm  
TIN No. of Firm  
Firm Seal  
Fax & Tele No.

(APS Chauhan)  
Lt Col  
SO -1 (Res)  
for Chief Engineer

Contd. 10/-

**TECHNICAL BID ('T' BID)**

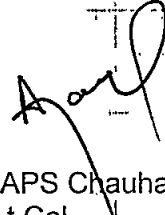
**HQ CE (P) Dantak Eng No 30003/DTK/19TF/ENQ- 07 /E3ES dt 23 Apr 2025**  
**(As per Clause Para 5)**

PARTICULAR OF FIRM		
SER NO	ITEMS	DETAILS
1.	Name of firms	
2.	Legal Status of the firm	Individual company (Incorporated un-incorporated)/ Partnership firm / public limited
3.	Address	
4.	Contact Telephone, Mobile & Fax No	
5.	E-mail address	
6.	GSTIN No	
7.	PAN No	
8.	Registration details :-	
	(a) Registration/Enlistment No.	
	(b) With whom registered /Enlisted	
	(c) Letter ref under which registered/enlisted.(Enclose copy)	
9.	EMD (For unregistered consignor/ firm only) EMD in the form of cheque is not acceptable. EMD be submitted in the form of Fixed Deposit Receipt or Bank Guarantee only	Amount <b>Rs 3,41,200/-</b> Fixed Deposit Receipt or Bank Guarantee Number _____ Dated : _____
Date		(Signature of authorized rep of firm with seal)

Note:

1. Firm enlisted with HQ CE (Project) Dantak need not enclose photocopy of GSTIN No, PAN No and copy of letters reference under which registered. Rest all firms should enclose relevant photocopies.
2. Firms should enclose all relevant documents as mentioned under Para 5 of this Enquiry in addition to the above details, failing which the firm will be rejected during 'T' Bid evaluation.

(Signature of consignor)

  
 (APS Chauhan)  
 Lt Col  
 SO-1 (Res)  
 for Chief Engineer

Contd.. 11/-

## PRICE BID ('Q' BID)

HQ CE (P) Dantak Eng No 30003/DTK/19TF/ENQ- 07 /E3ES dt 23 Apr 2025

Ser No	Nomenclature	A/U	Qty	Basic Price (Unit price) Including Freight Charges	Total Amt
<b>Stores to be supplied to Dett 'A' 504 SS&amp;TC (GREF), Samdrup Jongkhar (Bhutan)</b>					
1	Supply of Prefabricated Huts of size 19.52 Mtr x 6.10 Mtr with clear height of 2.70 Mtr (without verandah) and roof of puff panel with details of Prefabricated hut to be as per tech specifications and drawing attached.  Detail technical specifications and drawing as given in Appendix 'K' (Annexure-I) & (Annexure-II) respectively.	Nos	3		
2	Supply of Prefabricated Huts of size 7.32 Mtr x 6.10 Mtr with clear height of 2.70 Mtr (without verandah) and roof of puff panel with details of Prefabricated hut to be as per tech specifications and drawing attached.  Detail technical specifications and drawing as given in Appendix 'K' (Annexure-III) & (Annexure-IV) respectively.	Nos	10		
3	Supply of Prefabricated Huts with partition of size 19.52 Mtr x 6.10 Mtr with clear height of 2.74 Mtr with verandah 1.52 mtr wide in front and roof of puff panel with details of Prefabricated hut to be as per tech specifications and drawing attached.  Detail technical specifications and drawing as given in Appendix 'K' (Annexure-V) & (Annexure-VI) respectively.	Nos	5		
4	Supply of Prefabricated Huts with partition of size 19.52 Mtr x 4.88 Mtr with clear height of 2.74 Mtr with verandah 1.20 mtr wide in front and roof of puff panel alongwith toilet fitting with details of Prefabricated hut to be as per tech specifications and drawing attached.  Detail technical specifications and drawing as given in Appendix 'K' (Annexure-VII) & (Annexure-VIII) respectively.	Nos	2		
5	Supply of Modular portable Toilet size 3ft length x 3ft width x 8ft height, door 3ft width alongwith 200 ltr capacity water tank fixed suitably on the roof of the toilet with details of Modular portable toilet to be as per specifications and drawing attached.  Detail technical specifications and drawing as given in Appendix 'L' (Annexure-I) & (Annexure-II) respectively	Nos	10		
				<b>Total Amount</b>	
In words (Rupees _____)					only)

Registration No. of Firm  
TIN No. of Firm  
Firm Seal  
Fax & Tele No.

(APS Chauhan)  
Lt Col  
SO -1 (Res)  
for Chief Engineer

Contd. 12/

**EMD BANK GUARANTEE FORMAT**

**HQ CE (P) Dantak Eng No 30003/DTK/19TF/ENQ- 07 /E3ES dt 23 Apr 2025**

Whereas .....(hereinafter called the "Bidder") has submitted their offer against enquiry No 30003/DTK/19TF/ENQ-07/E3ES dated 23 Apr 2025 for the supply of stores (hereinafter called the "Bid") against the Buyer's Request for proposal No 30003/DTK/19TF/SO-\_\_\_/E3ES dated \_\_\_/ /2025 KNOW ALL MEN by these presents that we.....of.....having our registered office at.....are bound unto.....(hereinafter called the "Buyer) in the sum of.....for which payment will and truly to be made to the said Buyer, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this..... day of\_\_\_i.e2025.

The conditions of obligations are:-

1. If the Bidder withdraws or amends, impairs or derogates from the Bid in any respect within the period of validity of this tender.
2. If the Bidder having been notified of the acceptance of his tender by the Buyer during the period of its validity.
3. If the Bidder fails to furnish the Performance Security for the due performance of the supply order
4. Fails or refuses to accept/execute the supply order.

We undertake to pay the Buyer up to the above amount upon receipt of its first written demand, without the Buyer having to substantiate its demand, provided that in its demand the Buyer will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions specifying the occurred condition or conditions. This guarantee will remain in force upto and including 90 days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

.....  
.....  
.....  
.....

(Signature of the authorized officer of the Bank)  
Name and designation of the officer  
Seal, name & address of the Bank and address of the Branch

PERFORMANCE BANK GUARANTEE FORMAT

HQ CE (P) Dantak Enq No 30003/DTK/19TF/ENQ- 07 /E3ES dt 23 Apr 2025

From:  
Bank \_\_\_\_\_  
To,

.....  
.....  
.....  
.....

Dear Sir,

1. Whereas you have entered into a supply order No 30003/DTK/19TF/SO- \_\_\_\_\_/E3ES dated \_\_\_\_\_/2025 (hereinafter referred to as the said supply order) with \_\_\_\_\_, hereinafter referred to as the "seller/consignor" for supply of goods as per Part-II of the said supply order to the said seller/consignor and where as the Seller/consignor has undertaken to produce a bank guarantee for (5%) of total supply order value amounting to \_\_\_\_\_ to secure its obligations to the HQ CE (P) Dantak. We the \_\_\_\_\_ bank hereby expressly, irrevocably and unreserved undertake and guarantee as principal obligors on behalf of the seller/consignor that, in the event that the HQ CE (P) Dantak declares to us that the goods have not been supplied according to the performance obligations under the aforementioned supply order, we will pay you, on demand and without demur, all and any sum up to a maximum of \_\_\_\_\_ (Rupees \_\_\_\_\_ only). Your written demand shall be conclusive evidence to us that such repayment is due under the terms of the said supply order. We undertake to effect payment upon receipt of such written demand.

b

2. We shall not be discharged or released from this undertaking and guarantee by any arrangements, variations made between you and the Seller/consignor, indulgence to the Seller/consignor by you, or by any alterations in the obligations of the Seller/consignor or by any forbearance whether as to payment, time performance or other wise.

3. In no case shall the amount of this guarantee be increased.

4. This guarantee shall remain valid for ..... months from the date of acceptance of consignment in India/Bhutan or until all the store, spares and documentation have been supplied according to the performance obligations under the said supply order at the destination FOR.

5. Unless a demand or claim under this guarantee is made on us in writing on or before the aforesaid expiry date as provided in the above referred supply order or unless this guarantee is extended by us, all your rights under this guarantee shall be forfeited and we shall be discharged from the liabilities hereunder.

6. This guarantee shall be a continuing guarantee and shall not be discharged by and change in the constitution of the Bank or in the constitution of M/s \_\_\_\_\_

Appendix F

FORMAT OF CERTIFICATE OF ACCEPTANCE

HQ CE (P) Dantak Enq No 30003/DTK/19TF/ENQ- 07 /E3ES dt 23 Apr 2025

CERTIFICATE OF ACCEPTANCE

1. Certified that the M/s \_\_\_\_\_, hereby accepts the supply order No 30003/DTK/19TF/SO- /E3ES dated \_\_\_\_/ \_\_\_\_/2025 of the against enquiry No 30003/DTK/19TF/ENQ- 07/E3ES dated 23/04/2025 as per the supply order assigned to them and handed over the same to HQ CE (P) Dantak at \_\_\_\_\_ hours, on this \_\_\_\_ day of the month \_\_\_\_ in the year two thousand and Twenty Five.

2. The list of liabilities as on date is placed at annexure to this certificate.

3. Signed on \_\_\_\_\_ Day of \_\_\_\_\_ Two Thousand and Twenty Five.

\_\_\_\_\_  
REP  
FOR AND ON BEHALF OF  
THE CHIEF ENGINEER PROJECT DANTAK

\_\_\_\_\_  
REP OF  
M/s \_\_\_\_\_

*h*

Note. This certificate of acceptance will remain in force till the validity of supply order.

HQ CE (P) Dantak Eng No 30003/DTK/19TF/ENQ- 07 /E3ES dt 23 Apr 2025

UNDERTAKING CERTIFICATE

"It is certified that the goods / materials given in the Enquiry No 30003/DTK/19TF/ Enq-07/E3ES dt 07 Apr 2025 of HQ CE (P) Dantak will be supplied by me / our firm as export and for use in Bhutan. It is declared that no GST cost has been included by me in the rates quoted in above mentioned enquiry".

Stamp & Signature with date

Name of the bidder

Name of firm with address

Handwritten mark resembling a stylized 'b' or 'd'.

Contd.. 16/-

HQ CE (P) Dantak Eng No 30003/DTK/19TF/ENQ- 07 /E3ES dt 23 Apr 2025

SELF DECLARATION CERTIFICATE

It is certified that my firm M/s \_\_\_\_\_ is not under banned from participation in tenders by any Govt. organization of India/Bhutan. In the event of my declaration being found as not true, my bid be cancelled and I will have no objection to it.

Stamp & Signature with date

Name of the bidder

Name of firm with address

P

Contd... 17/-

HQ CE (P) Dantak Eng No 30003/DTK/19TF/ENQ- 07 /E3ES dt 23 Apr 2025

CERTIFICATE WITH REFERENCE TO PART PAYMENT CLAUSE BY L1 VENDOR

In the event of Supply Order being placed to me (being L1 vendor) for a Supply Order amount more than 25 lakh, I would like to **receive/ not receive** part payment as per Para 26 of RFP.  
**(\*Strike out whichever is not applicable)**

AP

Stamp & Signature with date

Name of the bidder

Name of firm with address

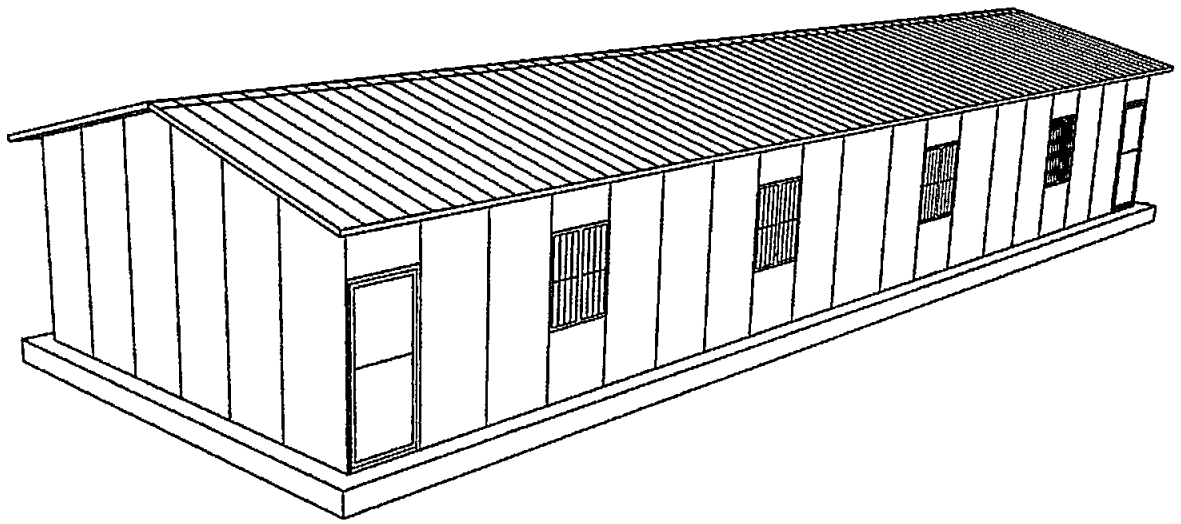
**SPECIFICATION SUPPLY OF PRE-FABRICATED SHELTER**

Ser No	Brief Specification	A/U	Qty
1	Supply of prefabricated Store Shelter of size 19.52 x 6.1 m and 2.70 m clear height. The shelter shall consist of 2 doors, 8 windows.	Nos	1
2	<b>General Layout.</b> Refer Drawing no FPS/01. (Attached as Appx 'K' Annt II)		
3	<b>Dimensions.</b> (a) <b>Shelter.</b> 19.52 m x 6.10 m x 2.70 m (Up to clear ceiling height ).		
4	<b>DESIGN PARAMETERS.</b>		
	(a) Seismic - Zone V		
	(b) Wind Pressure - To stand wind pressure 200 Kg/ Sq Mtr		
	(c) Temperature Range - (-10°) to (+) 50°C		
	(d) Thermal Insulation - 0.25W/m deg K		
	(e) Acoustic transmission > 40 db		
	(f) Fire Propagation <60 min		
5	<b>Details Material Specifications.</b> Detailed specification of the shelter is as given below and enumerated in attached drawings.		
6	<b>STRUCTURAL ELEMENTS.</b> The steel structure for the shelters will be designed for the Design Parameters as enumerated at Para 4 and for the dimensions as indicated in the drawings mentioned at Para 5 above. <b>All structural steel will be pre painted with two coat OG synthetic enamel over one coat of primer red oxide</b> and as per IS - 4923 - 1968 with manufacturer's test certificate for structural properties.		
	(a) <b>Columns.</b> The main columns will be made out of MS rectangular hollow section of size 96mm x 48mm x 3.20 mm conforming to IS 4923: 1997 and will be fixed using 8mm thick MS end plate 150x150 x 8mm thick at top and 4 Nos 10mm dia 50 mm length nut & bolts at top level. The column shall be welded with 200 x 200 x 8mm thick MS plate at bottom and shall be fixed to the foundation with 4 Nos bolts 16mm dia 450mm long through this plate. Make: TATA/SAIL/JINDAL/APOLLO	Nos.	18
	(b) <b>Truss</b> Trusses shall be made of MS rectangular hollow section of size 66x33x2.9 mm conforming to IS 4923-1997. The trusses are provided at a distance of 2.44 mtr c/c and shall be supported on suitable columns. Two Nos MS plate of size 150 x 150 x 8mm thick should be welded to each truss to tie with top plate of the columns. Suitable arrangement of 100x100x5mm thick cleats with nos 04 drilled holes of dia 12 mm for fixing purlins.	Nos	09

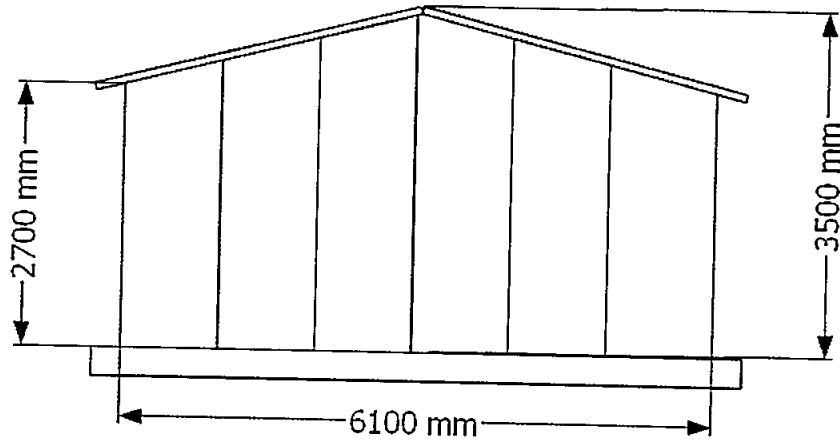
	(c)	<b>Purlin</b> The purlins will be fabricated out of RH steel sections of size 66mm x 33mm x 2.90mm with 100x100x5 mm thick cleats welded at both the ends with 04 nos drilled holes of dia 12 mm with 04 Nos 12 mm dia 40 mm length suitable nut and bolts for fastening. <b>Make: TATA/SAIL/JINDAL/APOLLO</b>	Nos	80
	(d)	<b>Gable end purlin</b> 300mm long made of rectangular hollow steel section of size 66mm x 33mm, 2.9mm thick weight not less than 4.75 Kg/m conforming to IS: 4923: 1997 along with base plate of size 66mm x 150mm x 5mm for fixing with purlin/gable end. <b>Make: TATA/SAIL/JINDAL/APOLLO</b>	Nos	20
	(e)	<b>Runner.</b> Two runners/U tracks to fix PUF Panels for wall with suitable cleats & nut and bolts to fix on column and will be fabricated out of RH steel sections of size 66mm x 33mm x 2.90mm along the length of wall on four sides incl Gable end. At gable end on each side, two nos RHS 66mm x 33mm x 2.90mm of length 2.7 m vertical member placed at 2 m from with suitable cleats for fixing runner at Gable end. <b>Make: TATA/SAIL/JINDAL/APOLLO</b>	Nos	2
7		<b>Roof</b> The roof slope shall be 1:3 approx. The wall height shall be 2.70 m at eaves and 3.50 m at central gable. <b>The roof shall be done with sandwiched PUF panel 60 mm. The outer sheet of sandwiched panel will be 0.5 mm and inner sheet will be 0.4 mm.</b> These panels are laid over a frame work trusses, columns and purlins fixed using Self tapping screws. A pre-painted galvanized steel sheet ridge cover of size 3050 mm x 600 mm x 1 mm is to be fixed on ridge portion of the roof using Self tapping screws. The roof shall be projected at least 300 mm around all sides of shelter. The roof panels to be fixed on purlin of size RHS 66 mm x 33 mm x 2.9 mm as directed with suitable fastening arrangements. <b>Wind Tie.</b> 03 Nos wind ties of 40mm x 4 mm MS flat on each side will be provided along the length for 20.12m. <b>Make: TATA/SAIL/JINDAL/APOLLO</b>	SQM	130
8		<b>Doors</b> Frame shall be made from pressed steel 3 sided frame using CR steel of size 55 mm x 40 mm x 1.6 mm confirmed to IS 513 : 1986 (Reaffirmed 2013) with amdt No 1. It will also have 4 Nos 100 mm long MS hinges welded on to the frame. <b>Shutter will be made out of sandwiched PUF panel of 50 mm thickness.</b> The door shutter shall be fixed with door frame with hinges. The door shutter shall be provided with 2 Nos MS oxidized Aldrop of 300 mm length. MS oxidized tower bolts of size 200 mm at the top and 100 mm at the bottom on each shutter and two Nos 150 mm long handles including one nos of helical door spring and one of Aluminium door stopper. Door Shutter size is 2080 mm x 915 mm. Aluminum Hasp & staple 01 each on front side. <b>Make: TATA/SAIL/JINDAL/ISI MARKED</b>	Nos.	2

	<b>Windows.</b> 1.5 mm thick Aluminum channels will be used for window frames. There will be two sliding type shutters in each window and glass sheet of 4 mm thickness shall be fixed. The frame shall have grill made from aluminum wire mesh. Window size is 915 mm x 1220 mm <b>Make: ISI MARKED</b>	Nos	8
10	<b>Walls.</b> All walls shall be made of vertical sandwiched PUF panel sheet of the thickness 50 mm. The outer sheet of sandwiched panel will be 0.4 mm and inner sheet will be 0.4 mm and color off white. <b>Make: ISI MARKED</b>	SQM	140
11.	<b>Electrical Appliances/Fittings</b>		
(a)	PVC insulated cable 1.5 Sqmm single core copper conductor unsheathed conforming to IS 694-1990, <b>Make: HAVELLS/ANCHOR/FINOLEX.</b>	RM	90
(b)	1 Sqmm single core multi stranded copper conductor FR PVC insulated (unsheathed) heavy duty cable. <b>Make: HAVELLS/ANCHOR/FINOLEX.</b>	RM	50
(c)	PVC Insulated Cable 10 Sqmm 2 Core Aluminum conductor unarmored with 4 mm dia GI wire and round type insulator S/C <b>Make: HAVELLS/ANCHOR/FINOLEX.</b>	RM	80
(d)	Flexible wire three core 23/0.0076 conforming to IS 9537 PT-III 1983 <b>Make: HAVELLS/ANCHOR/FINOLEX.</b>	RM	30
(e)	LED Tube light fitting 20-watt, Ultra bright glass shell, glare free, wide angle, double side connection retrofit LED tube G13 lamp, holder complete with fixing accessories. <b>Make :- BAJAJ/PHILIPS/HAVELLS.</b>	Nos	10
(f)	Bulk head luminary cast aluminum alloy housing gray powder coated, heat resistant prismatic glass cover with gasket and wire guard suitable for LED 20 watts. <b>Make: BAJAJ/PHILIPS/WIPRO.</b>	Nos	2
(g)	PVC ceiling rose 4"dia, <b>Make: - BAJAJ/PHILIPS/WIPRO.</b>	Nos	12
(h)	Switch piano type 5/6 Amps 230 Volts conforming to IS-3854-1966. <b>Make :- ANCHOR/HAVELLS/BAJAJ.</b>	<del>RM</del> Nos	12
(j)	Switch socket combination 5/6 Amp multisocket for 2 and 3 pin with box type, <b>Make:- ANCHOR/HAVELLS/BAJAJ.</b>	Nos	2
(k)	Switch board T/W 4" x 4" conforming IS-347-1975 with 3mm thick hylam sheet. <b>Make: - ANCHOR/HAVELLS/BAJAJ.</b>	Nos	12
(l)	CP screw 25mm (per pkt 100 Nos)	Pkt	1
(m)	PVC Insulation Tape of size 20 mm ISI Marked. <b>Make: STEEL GRIP/FINOLEX.</b>	Nos	3

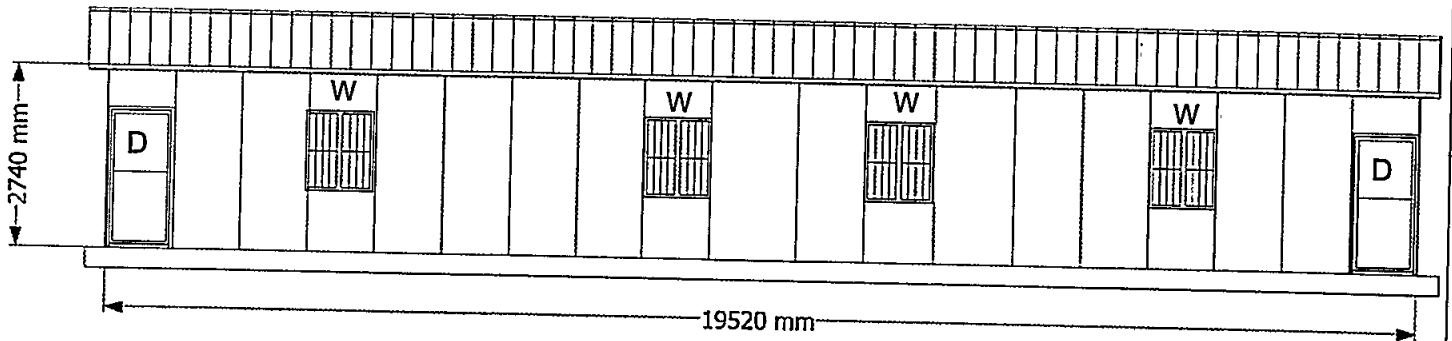
(n)	PVC casing capping square box 20 x 16 mm conforming to IS-14927 (Part-II) <b>Make: ANCHOR/WIPRO/POLY PLAST.</b>	RM	100
(o)	PVC Exhaust fan shutter type with louvres AC SP 230/240V of size 300mm sweep, motor speed 1800RPH, power consumption 30 watt. <b>Make: - USHA/HAVELLS/BAJAJ</b>	Nos	2
(p)	Change over switch 63 Amps, 240V DP conforming to IS 13947-1993. <b>Make: HAVELLS/ANCHOR/PHILIPS</b>	Nos	1
(q)	Distribution board sheet power coated for MCB/DBs with copper busbar incl neutral link earthing stud 6 way. <b>Make: HAVELLS/ANCHOR/PHILIPS</b>	Nos	1
(r)	MCB SP 06 to 32 Amp, 240-volt, 50 Hz <b>Make: HAVELLS/ANCHOR/PLAZA</b>	Nos	4
(s)	MCB SPN 40 Amps, 240-volt, 50 Hz <b>Make: HAVELLS/ANCHOR/PLAZA</b>	Nos	1
(t)	Square box for fixing of security light fitting. <b>Make: - ANCHOR/HAVELLS/BAJAJ.</b>	Nos	2
(u)	Angle Holder <b>Make: ANCHOR/HAVELLS/PHILIPS.</b>	Nos	9
(v)	LED 9-Watt bulb <b>Make: BAJAJ/PHILIPS/WIPRO.</b>	Nos	9
(w)	GI Service bracket of 1.2 mtr long of GI pipe light grade 40 mm dia best quality.	Nos	1



Perspective View



Side View

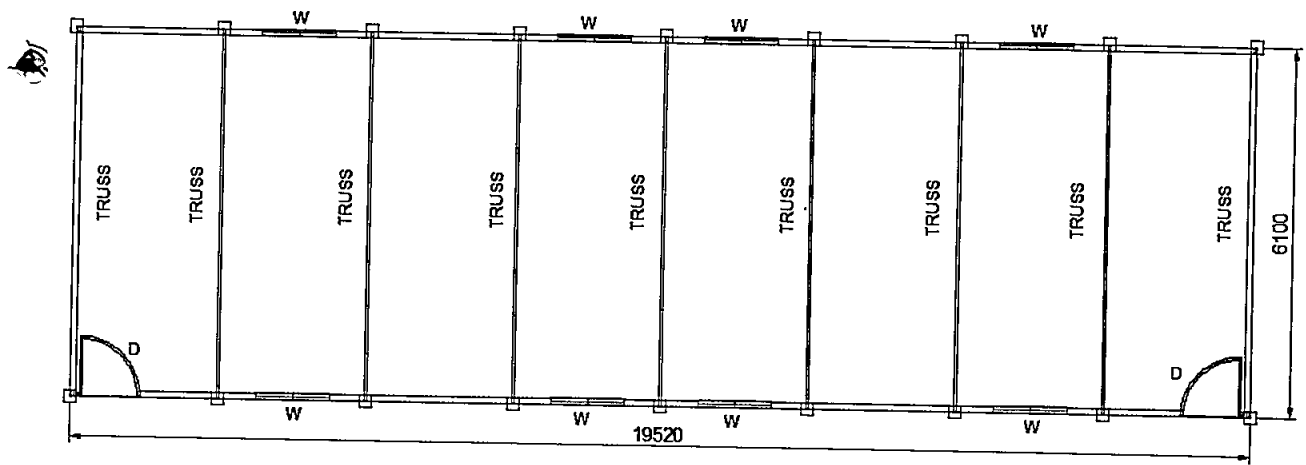


Front View

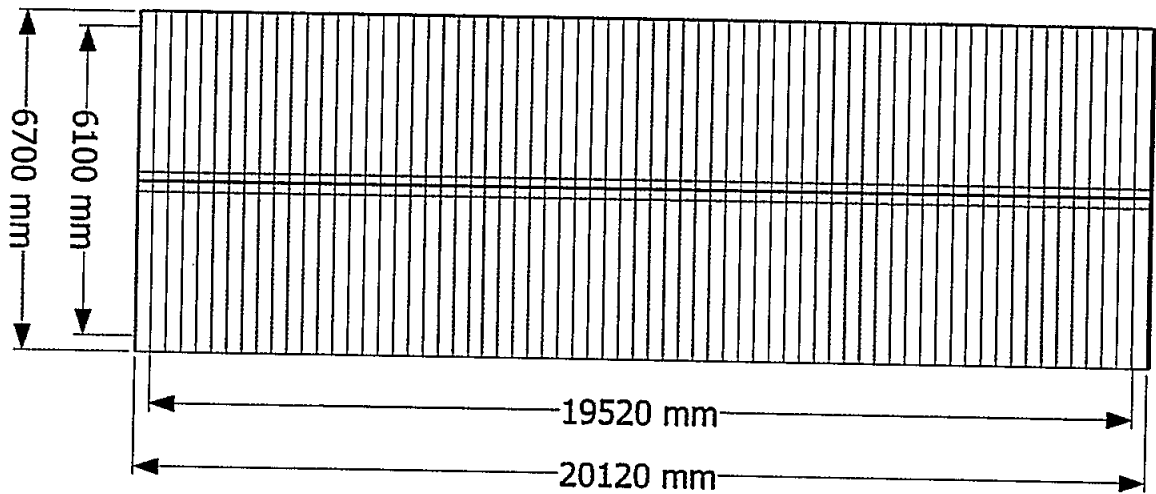
TOLERANCES FOR STRUCTURES DIMENSIONS UOPT  
 3 MTR +/- 100 MM 3 MTR TO 6 MTR +/- 150 MM  
 BEYOND 6 MTR +/- 200 MM

SCHEDULE OF OPENING				
S.L	MARKED	DESC.	SIZE	NOS.
1	D	DOOR	2.080X0.915M	2
2	W	WINDOW	1.220X1.220M	8
3	T	TRUSS	6.100 M	9
	P	PURLIN	-	80

SUB TITLE	GENERAL VIEW AND LAYOUT PLAN
TITLE	PRE FABRICATED STRUCTURES
DRG. NO.	FPS/001
CHKD. BY	



Plan Layout

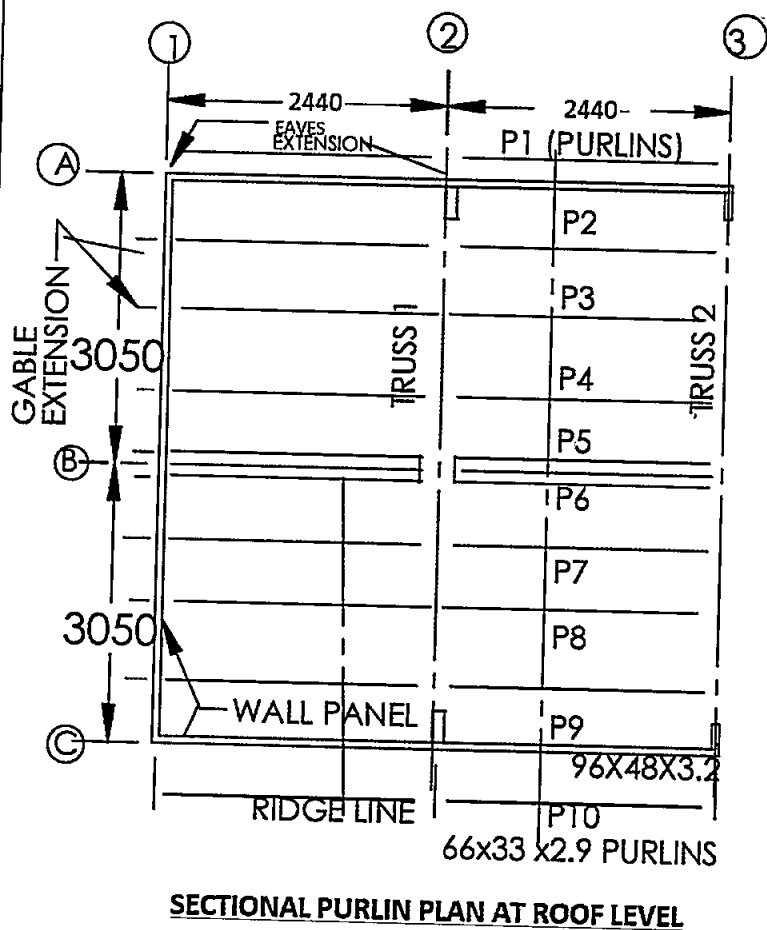
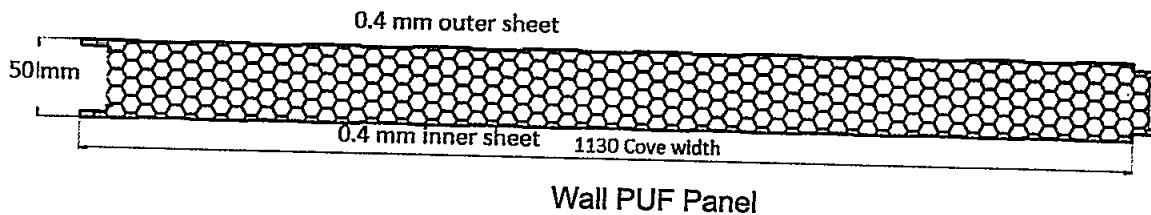
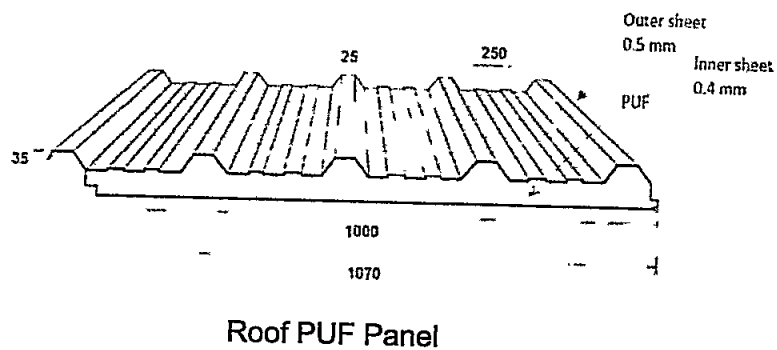
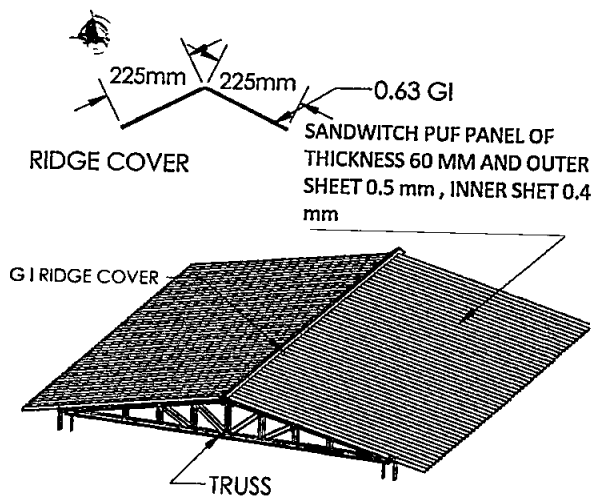


Roof Layout

TOLERANCES FOR STRUCTURES DIMENSIONS UOPT  
 3 MTR +/- 100 MM 3 MTR TO 6 MTR +/- 150 MM  
 BEYOND 6 MTR +/- 200 MM

SCHEDULE OF OPENING				
S.L	MARKED	DESC.	SIZE	NOS.
1	D	DOOR	2.080X0.915M	2
2	W	WINDOW	1.220X1.220M	8
3	T	TRUSS	6.100 M	9
	P	PURLIN	-	80

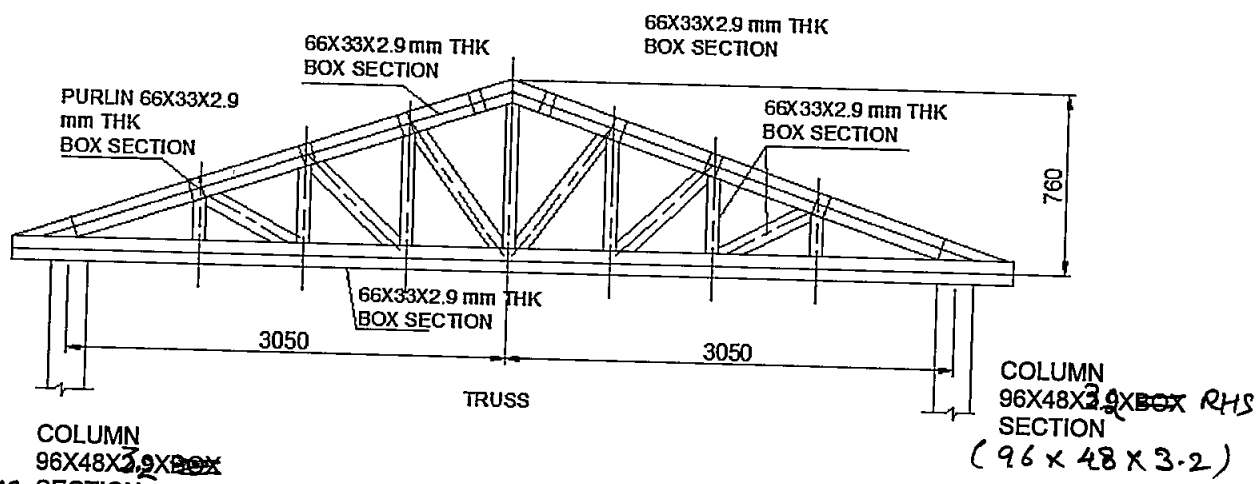
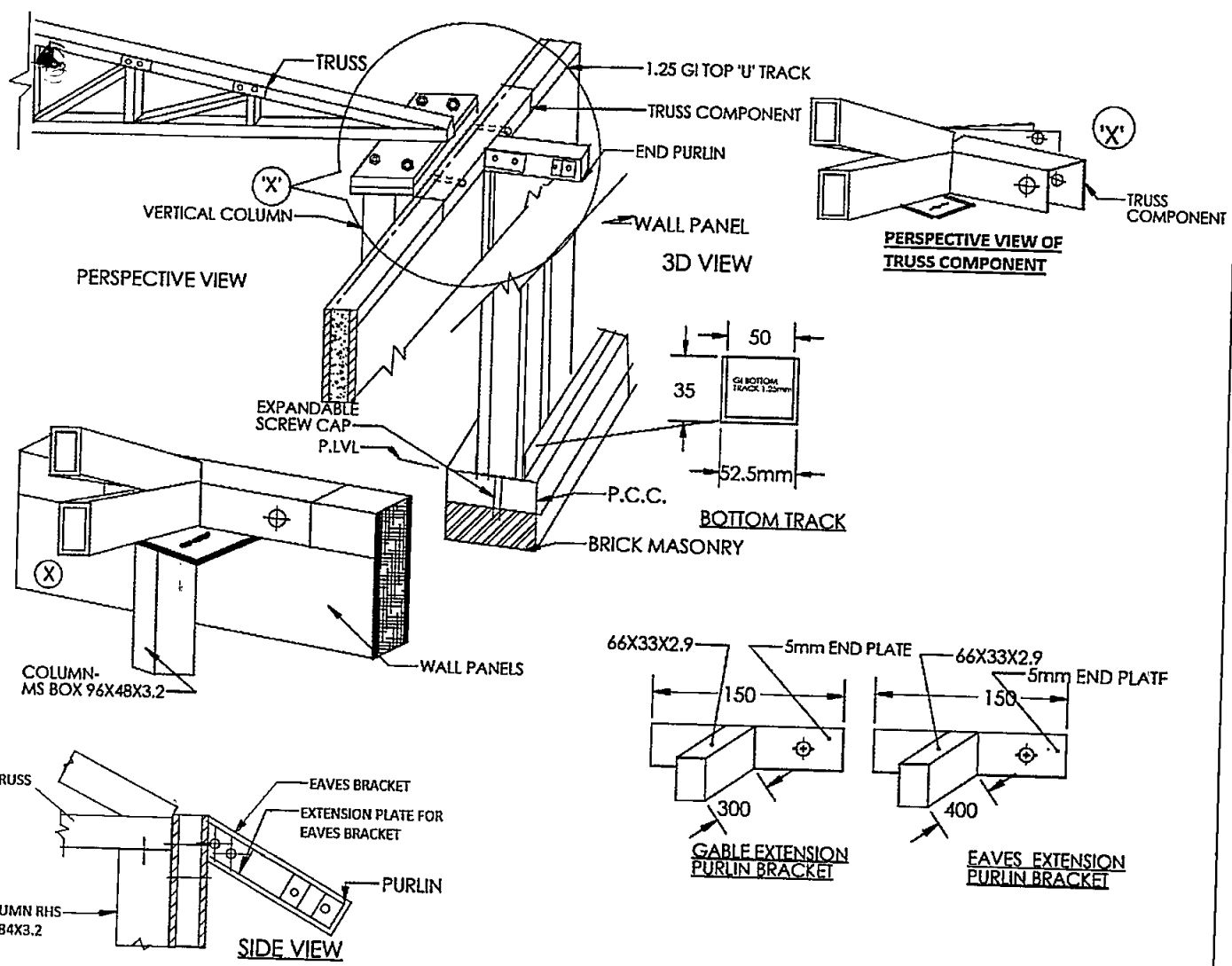
SUB TITLE	PLAN & ROOF LAYOUT
TITLE	PRE FABRICATED STRUCTURES
DRG. NO.	FPS/001
CHKD. BY	



TOLERANCES FOR STRUCTURES DIMENSIONS UOPT  
 3 MTR +/- 100 MM 3 MTR TO 6 MTR +/- 150 MM  
 BEYOND 6 MTR +/- 200 MM

SCHEDULE OF OPENING				
S.L	MARKED	DESC.	SIZE	NOS.
1	D	DOOR	2.080X0.915M	2
2	W	WINDOW	1.220X1.220M	8
3	T	TRUSS	6.100 M	9
	P	PURLIN	-	80

SUB TITLE	PURLIN LAYOUT & ROOF DETAILS
TITLE	PRE FABRICATED STRUCTURES
DRG. NO.	FPS/001
CHKD. BY	



COLUMN 96X48X3.2 BOX RHS SECTION (96 x 48 x 3.2)

TOLERANCES FOR STRUCTURES DIMENSIONS UOPT				
3 MTR +/- 100 MM				
3 MTR TO 6 MTR +/- 150 MM				
BEYOND 6 MTR +/- 200 MM				
SCHEDULE OF OPENING				
S.L	MARKED	DESC.	SIZE	NOS.
1	D	DOOR	2.080X0.915M	2
2	W	WINDOW	1.220X1.220M	8
3	T	TRUSS	6.100 M	9
	P	PURLIN	-	80

SUB TITLE	TRUSS AND TRUSS COMPONENTS
TITLE	PRE FABRICATED STRUCTURES
DRG. NO.	FPS/001
CHKD. BY	

**SPECIFICATION SUPPLY OF PRE-FABRICATED SHELTER STORE**

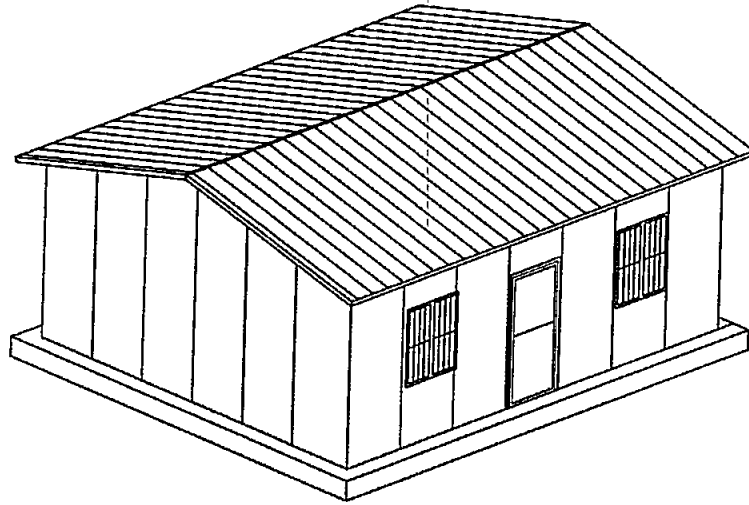
Ser No	Brief Specification	A/U	Qty
1	Supply of prefabricated Store Shelter of size 7.32m x 6.1 m and 2.70 m clear height up to ceiling. The shelter shall consist of one door, two windows.	Nos	1
2	<b>General Layout.</b> Refer Drawing no FPS/02 (Attached as Appx K , Annx IV)		
3	<b>Dimensions.</b> (a) <b>Shelter.</b> 7.32 m x 6.10 m x 2.7 m ( Up to clear ceiling height )		
4	<b>DESIGN PARAMETERS.</b>		
	(a) Seismic - Zone V		
	(b) Wind Pressure - To stand wind pressure 200 Kg/ Sq Mtr		
	(c) Temperature Range - (-10°) to (+) 50°C		
	(d) Thermal Insulation - 0.25W/m deg K		
	(e) Acoustic transmission > 40 db		
	(f) Fire Propagation <60 min		
5	<b>Details Material Specifications.</b> Detailed specification of the shelter is as given below and enumerate in attached drawings.		
6	<b>STRUCTURAL ELEMENTS.</b> The steel structure for the shelters will be designed for the Design Parameters as enumerated at Para 4 and for the dimensions as indicated in the drawings mentioned at Para 5 above. <b>All structural steel will be pre painted with two coat OG synthetic enamel over one coat of primer red oxide</b> and as per IS - 4923 - 1968 with manufacturer's test certificate for structural properties.		
(a)	<b>Columns.</b> The main columns will be made out of MS rectangular hollow section of size 96mm x 48mm x 3.20 mm conforming to IS 4923: 1997 and will be fixed using 8mm thick MS end plate 150x150 x 8mm thick at top and 4 Nos 10mm dia 50 mm length nut & bolts at top level. The column shall be welded with 200 x 200 x 8mm thick MS plate at bottom and shall be fixed to the foundation with 4 Nos bolts 16mm dia 450mm long through this plate. Make: TATA/SAIL/JINDAL/APOLLO	Nos.	8
(b)	<b>Truss</b> Trusses shall be made of MS rectangular hollow section of size 66x33x2.9 mm conforming to IS 4923-1997. The trusses are provided at a distance of 2.44 mtr c/c and shall be supported on suitable columns. Two Nos MS plate of size 150 x 150 x 8mm thick should be welded to each truss to tie with top plate of the columns . Suitable arrangement of 100x100x5mm thick cleats with nos 04 drilled holes of dia 12 mm for fixing purlins.	Nos	4

	(c)	<b>Purlin.</b> The purlins will be fabricated out of RH steel sections of size 66mm x 33mm x 2.90mm with 100x100x5 mm thick cleats welded at both the ends with 04 nos drilled holes of dia 12 mm with 04 Nos 12 mm dia 40 mm length suitable nut and bolts for fastening. <b>Make: TATA/SAIL/JINDAL/APOLLO</b>	Nos	30
	(d)	<b>Gable end purlin</b> 300mm long made of rectangular hollow steel section of size 66mm x 33mm, 2.9mm thick weight not less than 4.75 Kg/m conforming to IS: 4923: 1997 along with base plate of size 66mm x 150mm x 5mm for fixing with purlin/gable end. <b>Make: TATA/SAIL/JINDAL/APOLLO</b>	Nos	8
	(e)	<b>Runner.</b> Two runners/U tracks to fix PUF Panels for wall with suitable cleats & nut and bolts to fix on column and will be fabricated out of RH steel sections of size 66mm x 33mm x 2.90mm along the length of wall on four sides incl Gable end. At gable end on each side, two nos RHS 66mm x 33mm x 2.90mm of length 2.7 m vertical member placed at 2 m from with suitable cleats for fixing runner at Gable end. <b>Make: TATA/SAIL/JINDAL/APOLLO</b>	Nos	2
7		<b>Roof.</b> The roof slope shall be 1:3 approx. The wall height shall be 2.70 m at eaves and 3.50 m at central gable. The roof shall be done with sandwiched PUF panel 60 mm. These panels are laid over a frame work trusses, columns and purlins fixed using Self tapping screws. A pre painted galvanized steel sheet ridge cover of size 3050 mm x 600 mm x 1 mm is to be fixed on ridge portion of the roof using Self tapping screws. The roof shall be projected at least 300 mm around all sides of shelter. The roof panels to be fixed on purlin of size RHS 66 mm x 33 mm x 2.9 mm as directed with suitable fastening arrangements. <b>Wind Tie.</b> 03 Nos wind ties of 40mm x 4 mm MS flat on each side will be provided along the length for 20.12m. <b>Make: TATA/SAIL/JINDAL/APOLLO</b>	SQM	50
8		<b>Doors.</b> Frame shall be made from pressed steel 3 sided frame using CR steel of size 55 mm x 40 mm x 1.6 mm confirmed to IS 513 : 1986 (Reaffirmed 2013) with amdt No 1. It will also have 4 Nos 100 mm long MS hinges welded on to the frame. Shutter will be made out of sandwiched PUF panelso of 50 mm thickness. The door shutter shall be fixed with door frame with hinges . The door shutter shall be provided with 2 Nos MS oxidized aldrops of 300 mm length. MS oxidized tower bolts of size 200 mm at the top and 100 mm at the bottom on each shutter and two Nos 150 mm long handles including one nos of helical door spring and one of Aluminium door stopper. Door Shutter size is 2080 mm x 915 mm . Aluminum Hasp & staple 01 each on front side. <b>Make: TATA/SAIL/JINDAL/ISI MARKED</b>		1

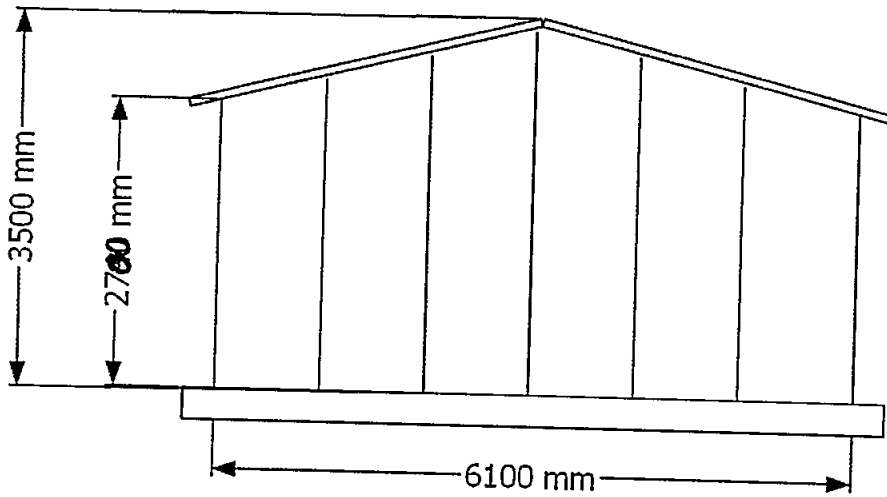
9	<b>Windows.</b> 1.5 mm thick Aluminum channels will be used for window frames. There will be two sliding type shutters in each window and glass sheet of 4 mm thickness shall be fixed. The frame shall have grill made from aluminum wire mesh. Window size is 915 mm x 1220 mm. <b>Make: ISI MARKED</b>	Nos	2
10	<b>Walls.</b> All walls shall be made of vertical sandwiched PUF panel sheet of the thickness 50 mm. The outer sheet of sandwiched panel will be 0.4 mm and inner sheet will be 0.4 mm and color off white. <b>Make: ISI MARKED</b>	SQM	80

11.	<b>Electrical Appliances/Fittings</b>		
(a)	PVC insulated cable 1.5 Sqmm single core copper conductor unsheathed conforming to IS 694-1990, <b>Make: HAVELLS/ANCHOR/FINOLEX.</b>	RM	45
(b)	1 Sqmm single core multi stranded copper conductor FR PVC insulated (unsheathed) heavy duty cable. <b>Make: HAVELLS/ANCHOR/FINOLEX.</b>	RM	30
(c)	PVC Insulated Cable 10 sqmm 2 Core Aluminium conductor unarmoured with 4 mm dia GI wire and round type insulator S/C <b>Make: HAVELLS/ANCHOR/FINOLEX.</b>	RM	40
(d)	Flexible wire three core 23/0.0076 confirming to IS 9537 PT-III 1983 <b>Make: HAVELLS/ANCHOR/FINOLEX.</b>	RM	20
(e)	LED Tube light fitting 20 watt, Ultra bright glass shell, glare free, wide angle, double side connection retrofit LED tube G13 lamp, holder complete with fixing accessories. <b>Make :- BAJAJ/PHILIPS/HAVELLS.</b>	Nos	5
(f)	Bulk head luminary cast aluminium alloy housing gray powder coated, heat resistant prismatic glass cover with gasket and wire guard suitable for LED 20 watts. <b>Make : BAJAJ/PHILIPS/WIPRO.</b>	Nos	2
(g)	PVC ceiling rose 4" dia, <b>Make :- BAJAJ/PHILIPS/WIPRO.</b>	Nos	4
(h)	Switch piano type 5/6 Amps 230 Volts conforming to IS-3854-1966. <b>Make :- ANCHOR/HAVELLS/BAJAJ.</b>	<del>RM</del> Nos	4
(i)	Switch socket combination 5/6 Amp multisolet for 2 and 3 pin with box type, <b>Make :- ANCHOR/HAVELLS/BAJAJ.</b>	Nos	1
(k)	Switch board T/W 4" x 4" conforming IS-347-1975 with 3mm thick hylam sheet. <b>Make :- ANCHOR/HAVELLS/BAJAJ.</b>	Nos	4
(l)	CP screw 25mm (per pkt 100 Nos)	Pkt	1
(m)	PVC Insulation Tape of size 20 mm ISI Marked. <b>Make: STEEL GRIP/FINOLEX.</b>	Nos	1

(n)	PVC casing capping square box 20 x 16 mm conforming to IS-14927 (Part-II) <b>Make : ANCHOR/WIPRO/POLY PLAST.</b>	RM	40
(o)	PVC Exhaust fan shutter type with louvres AC SP 230/240V of size 300mm sweep , motor speed 1800RPH, power consumption 30 watt. <b>Make :- USHA/HAVELLS/BAJAJ</b>	Nos	2
(p)	Change over switch 63 Amps, 240V DP conforming to IS 13947-1993. <b>Make: HAVELLS/ANCHOR/PHILIPS</b>	Nos	1
(q)	Distribution board sheet power coated for MCB/DBs with copper busbar incl neutral link earthing stud 6 way. <b>Make: HAVELLS/ANCHOR/PHILIPS</b>	Nos	1
(r)	MCB SP 06 to 32 Amp, 240 volt 50 Hz <b>Make: HAVELLS/ANCHOR/PLAZA</b>	Nos	1
(s)	MCB SPN 40 Amps, 240 volt, 50 Hz <b>Make: HAVELLS/ANCHOR/PLAZA</b>	Nos	1
(t)	Square box for fixing of security light fitting. <b>Make :- ANCHOR/HAVELLS/BAJAJ.</b>	Nos	1
(u)	Angle Holder <b>Make: ANCHOR/HAVELLS/PHILIPS.</b>	Nos	4
(v)	LED 9 Watt bulb <b>Make: BAJAJ/PHILIPS/WIPRO.</b>	Nos	4
(w)	GI Service bracket of 1.2 mtr long of GI pipe light grade 40 mm dia best quality.	Nos	1



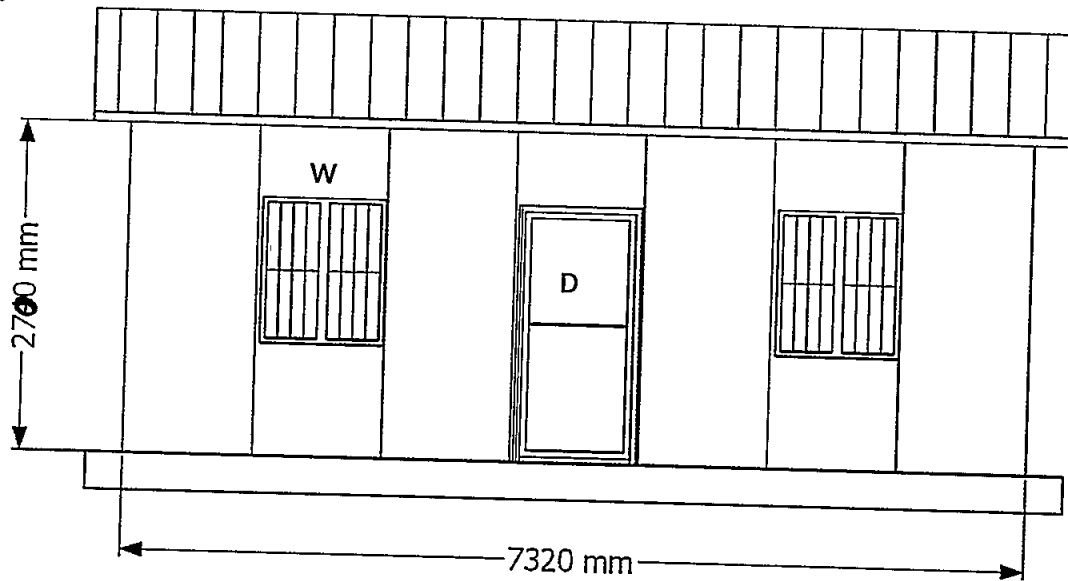
Perspective View



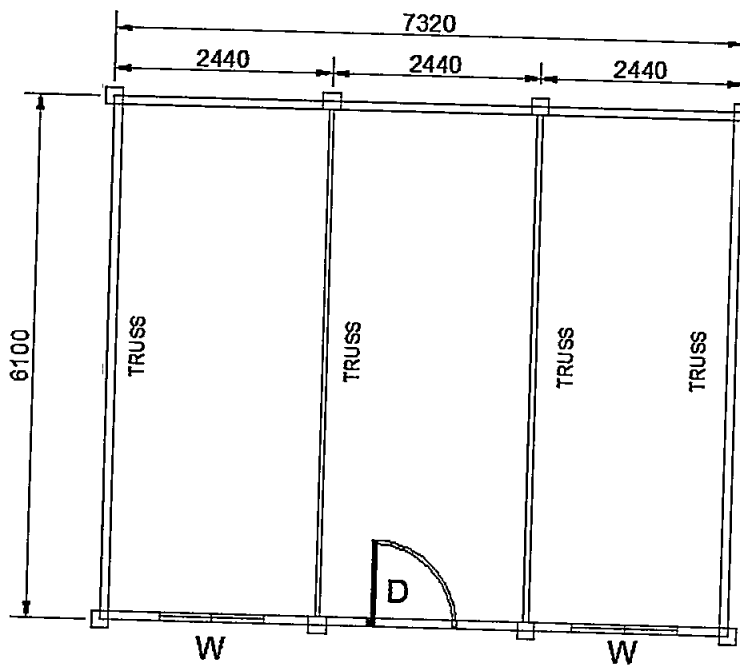
Side View

TOLERANCES FOR STRUCTURES DIMENSIONS UOPT				
3 MTR +/- 100 MM 3 MTR TO 6 MTR +/- 150 MM				
BEYOND 6 MTR +/- 200 MM				
SCHEDULE OF OPENING				
S.L	MARKED	DESC.	SIZE	NOS.
1	D	DOOR	2.080X0.915M	1
2	W	WINDOW	1.220X0.900M	2
4	T	TRUSS	6.100 M	4
5	P	PURLIN	-	30

SUB TITLE	GENERAL VIEW
TITLE	PRE FABRICATED STRUCTURE
DRG. NO.	FPS/02
CHKD. BY	



Front View

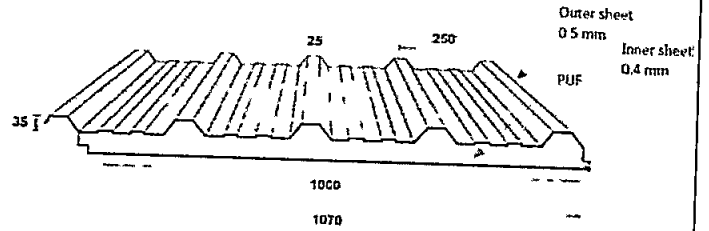
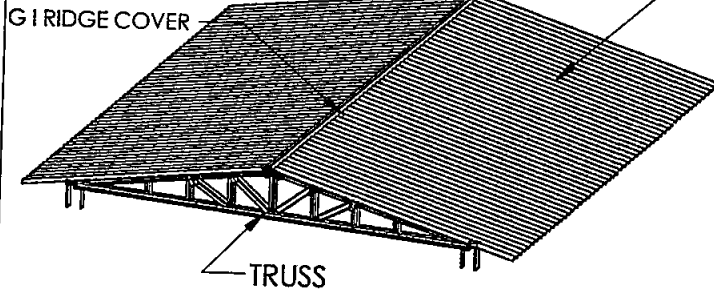
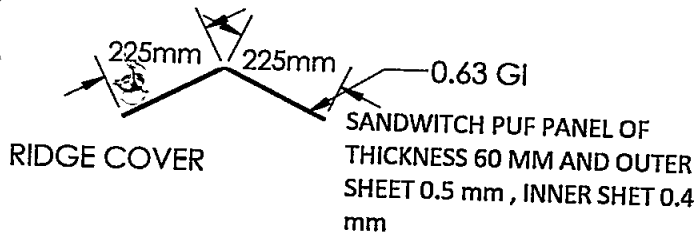


LAYOUT PLAN

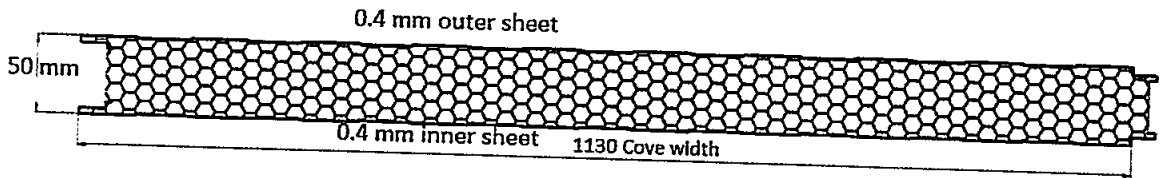
TOLERANCES FOR STRUCTURES DIMENSIONS UOPT  
 3 MTR +/- 100 MM 3 MTR TO 6 MTR +/- 150 MM  
 BEYOND 6 MTR +/- 200 MM

SCHEDULE OF OPENING				
S.L	MARKED	DESC.	SIZE	NOS.
1	D	DOOR	2.080X0.915M	1
2	W	WINDOW	1.220X0.900M	2
3	T	TRUSS	6.100 M	4
4	P	PURLIN	-	30

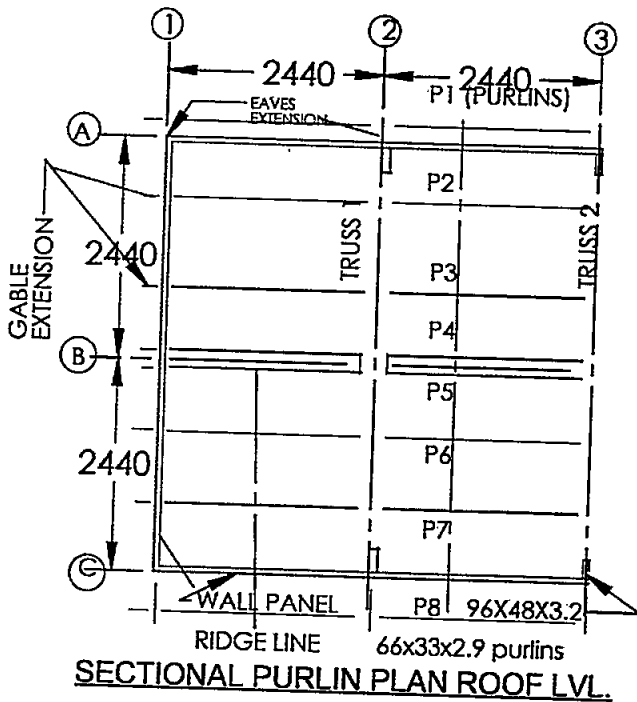
SUB TITLE	FRONT VIEW AND LAYOUT PLAN
TITLE	PRE FABRICATED STRUCTURE
DRG. NO.	FPS/02
CHKD. BY	



Roof PUF Panel



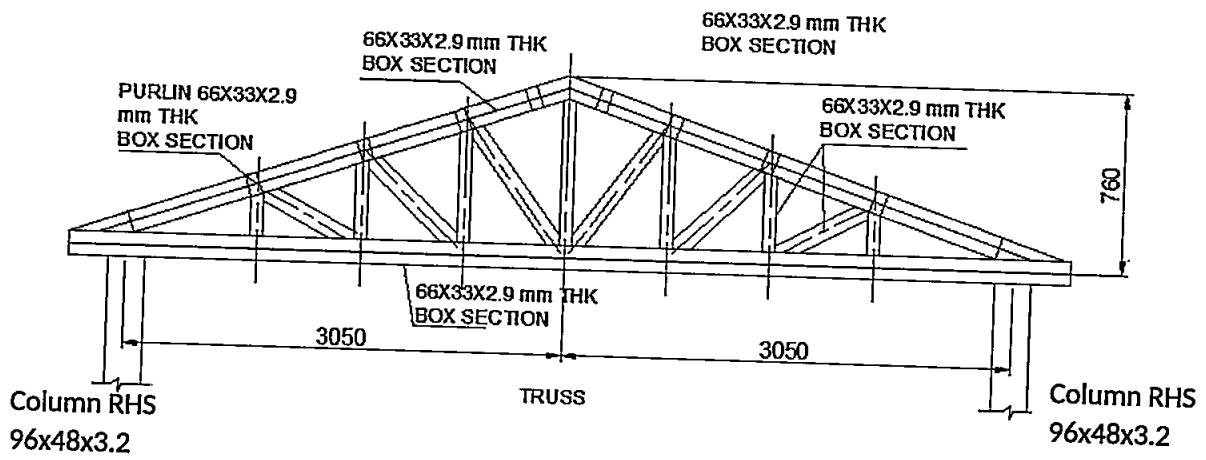
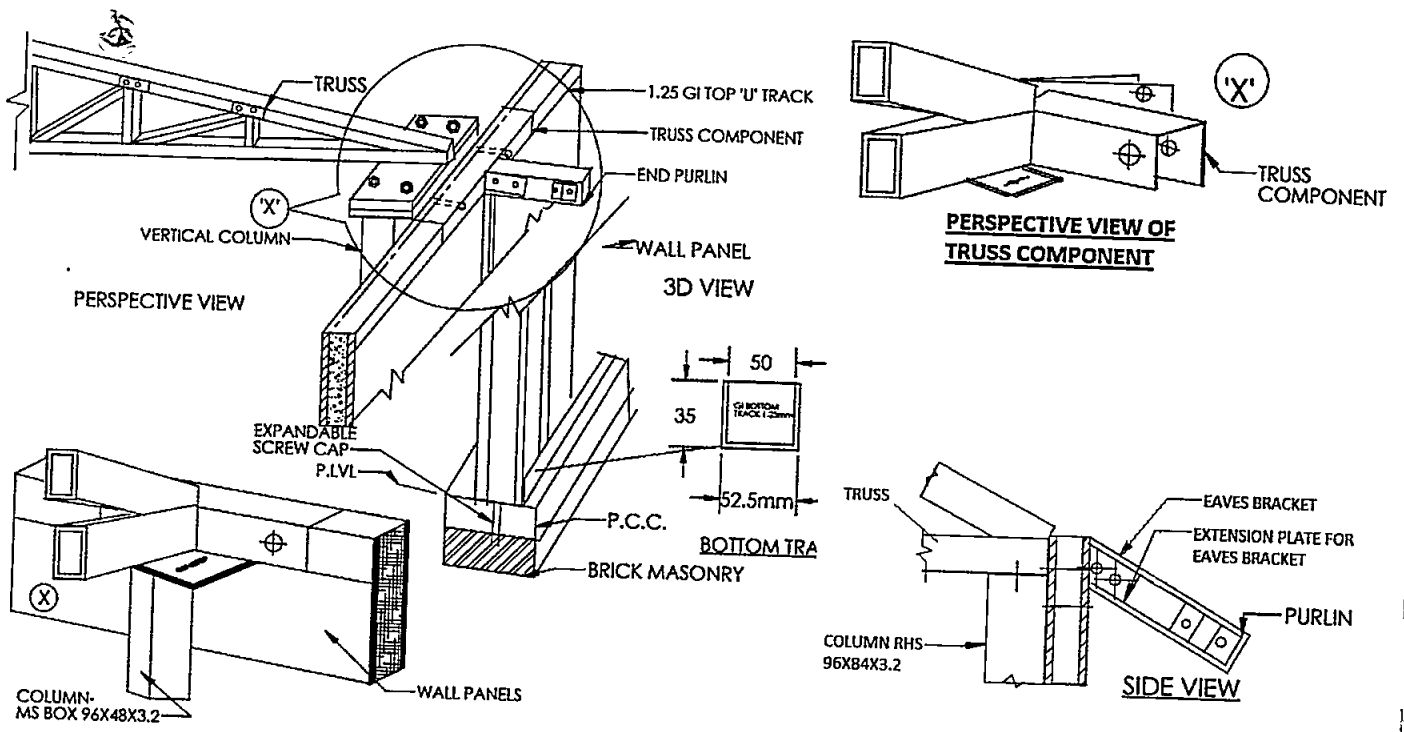
Wall PUF Panel



TOLERANCES FOR STRUCTURES DIMENSIONS UOPT  
 3 MTR +/- 100 MM 3 MTR TO 6 MTR +/- 150 MM  
 BEYOND 6 MTR +/- 200 MM

SCHEDULE OF OPENING				
S.L	MARKED	DESC.	SIZE	NOS.
1	D	DOOR	2.080X0.915M	1
2	W	WINDOW	1.220X0.900M	2
3	T	TRUSS	6.100 M	4
4	P	PURLIN	-	30

SUB TITLE	ROOF TRUSS AND PURLIN LAYOUT
TITLE	PRE FABRICATED STRUCTURE
DRG. NO.	FPS/02
CHKD. BY	



TOLERANCES FOR STRUCTURES DIMENSIONS UOPT  
 3 MTR +/- 100 MM 3 MTR TO 6 MTR +/- 150 MM  
 BEYOND 6 MTR +/- 200 MM

SCHEDULE OF OPENING				
S.L	MARKED	DESC.	SIZE	NOS.
1	D	DOOR	2.080X0.915M	1
2	W	WINDOW	1.220X0.900M	2
3	T	TRUSS	6.100 M	4
4	P	PURLIN	-	30

SUB TITLE	ROOF TRUSS AND TRUSS COMPONENTS
TITLE	PRE FABRICATED STRUCTURE
DRG. NO.	FPS/02
CHKD. BY	

**SPECIFICATION SUPPLY OF PRE-FABRICATED SHELTER**

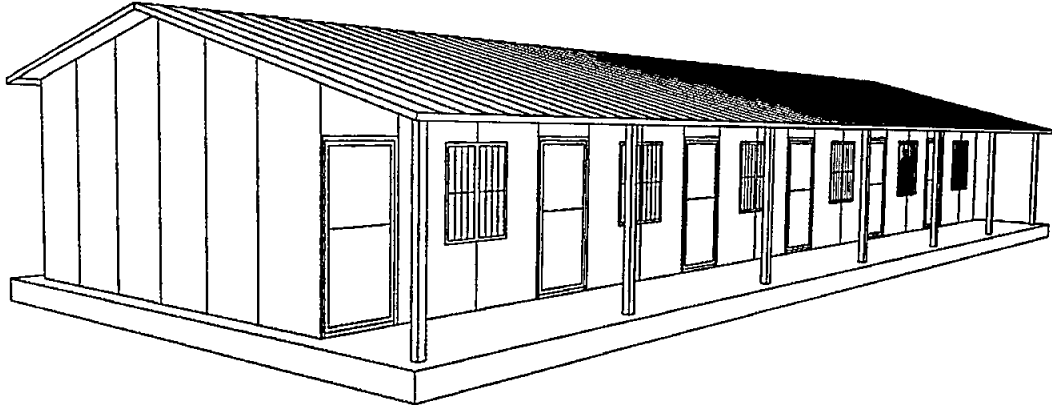
Ser No	Brief Specification	A/U	Qty
1	Supply of prefabricated Store Shelter of size 19.52 x 6.1 m and 2.70 m clear height upto ceiling with verandah 1.525m wide. The shelter shall consist of 6 doors, 12 windows and 6 ventilators.	Nos	1
2	<b>General Layout.</b> Refer Drawing no FPS/03 ( attached as Appx K, Annx VI).		
3	<b>Dimensions.</b> (a) <b>Shelter.</b> 19.52 m x 6.10 m x 2.70m (Up to clear ceiling height ) with verandah 1.525m wide.		
4	<b>DESIGN PARAMETERS.</b>		
	(a) Seismic - Zone V		
	(b) Wind Pressure - To stand wind pressure 150 Kg/ Sq Mtr		
	(c) Temperature Range - (-10°) to (+) 50°C		
	(d) Thermal Insulation - 0.25W/m deg K		
	(e) Acoustic transmission > 40 db		
	(f) Fire Propagation <60 min		
5	<b>Details Material Specifications.</b> Detailed specification of the shelter is as given below and enumerated in attached drawings.		
6	<b>STRUCTURAL ELEMENTS.</b> The steel structure for the shelters will be designed for the Design Parameters as enumerated at Para 4 and for the dimensions as indicated in the drawings mentioned at Para 5 above. <b>All structural steel will be pre painted with two coat OG synthetic enamel over one coat of primer red oxide</b> and as per IS - 4923 - 1968 with manufacturer's test certificate for structural properties.		
	(a) <b>Columns.</b> The main columns will be made out of MS rectangular hollow section of size 96mm x 48mm x 3.20 mm conforming to IS 4923: 1997 and will be fixed using 8mm thick MS end plate 150x150 x 8mm thick at top and 4 Nos 10mm dia 50 mm length nut & bolts at top level. The column shall be welded with 200 x 200 x 8mm thick MS plate at bottom and shall be fixed to the foundation with 4 Nos bolts 16mm dia 450mm long through this plate. Make: TATA/SAIL/JINDAL/APOLLO	Nos.	14
	(b) <b>Truss</b> Trusses shall be made of MS rectangular hollow section of size 66x33x2.9 mm conforming to IS 4923-1997. The trusses are provided at a distance of 3.250 mtr c/c and shall be supported on suitable columns. Two Nos MS plate of size 150 x 150 x 8mm thick should be welded to each truss to tie with top plate of the columns. Suitable arrangement of 100x100x5mm thick cleats with nos 04 drilled holes of dia 12 mm for fixing purlins.	Nos	07

	(c)	<b>Purlin</b> The purlins will be fabricated out of RH steel sections of size 66mm x 33mm x 2.90mm with 100x100x5 mm thick cleats welded at both the ends with 04 nos drilled holes of dia 12 mm with 04 Nos 12 mm dia 40 mm length suitable nut and bolts for fastening. <b>Make: TATA/SAIL/JINDAL/APOLLO</b>	Nos	70
	(d)	<b>Gable end purlin</b> 300mm long made of rectangular hollow steel section of size 66mm x 33mm, 2.9mm thick weight not less than 4.75 Kg/m conforming to IS: 4923: 1997 along with base plate of size 66mm x 150mm x 5mm for fixing with purlin/gable end. <b>Make: TATA/SAIL/JINDAL/APOLLO</b>	Nos	20
	(e)	<b>Runner.</b> Two runners/U tracks to fix PUF Panels for wall with suitable cleats & nut and bolts to fix on column and will be fabricated out of RH steel sections of size 66mm x 33mm x 2.90mm along the length of wall on four sides incl Gable end. At gable end on each side, two nos RHS 66mm x 33mm x 2.90mm of length 2.7 m vertical member placed at 2 m from with suitable cleats for fixing runner at Gable end. <b>Make: TATA/SAIL/JINDAL/APOLLO</b>	Nos	2
	(f)	<b>Verandah Columns.</b> The columns will be made out of MS hollow section of size RHS 66mm x 33mm x 2.90 mm conforming to IS 4923: 1997 and will be fixed using 8mm thick MS end plate 100x100 x 8mm thick at top and 4 Nos 10mm dia 50 mm length nut & bolts at top level. The column shall be welded with 150 x 150 x 8mm thick MS plate at bottom and shall be fixed to the foundation with 4 Nos bolts 16mm dia 450mm long through this plate. <b>Make: TATA/SAIL/JINDAL/APOLLO</b>	Nos	7
	(g)	<b>Verandah Purlin.</b> The purlins will be fabricated out of RH steel sections of size 66mm x 33mm x 2.90mm. <b>Make: TATA/SAIL/JINDAL/APOLLO</b>	Nos	21
7		<b>Roof</b> The roof slope shall be 1:3 approx. The wall height shall be 2.70 m at eaves and 3.50 m at central gable. <b>The roof shall be done with sandwiched PUF panel 60 mm. The outer sheet of sandwiched panel will be 0.5 mm and inner sheet will be 0.4 mm.</b> These panels are laid over a frame work trusses, columns and purlins fixed using Self tapping screws. A pre-painted galvanized steel sheet ridge cover of size 3050 mm x 600 mm x 1 mm is to be fixed on ridge portion of the roof using Self tapping screws. The roof shall be projected at least 300 mm around all sides of shelter. The roof panels to be fixed on purlin of size RHS 66 mm x 33 mm x 2.9 mm as directed with suitable fastening arrangements. <b>Wind Tie.</b> 03 Nos wind ties of 40mm x 4 mm MS flat on each side will be provided along the length for 20.12m. <b>Make: TATA/SAIL/JINDAL/APOLLO</b>	SQM	165

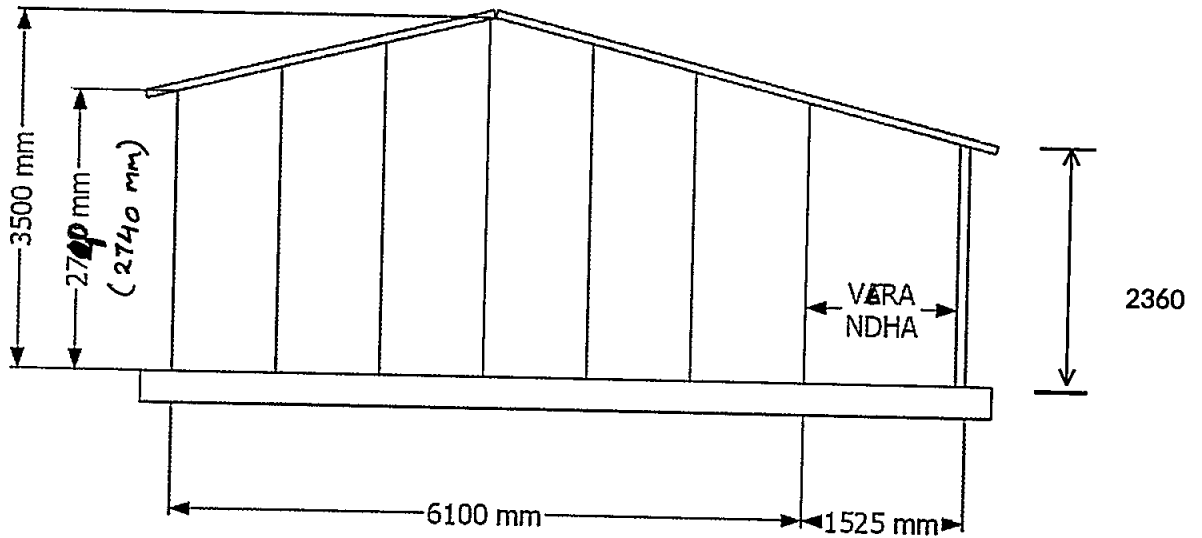
8	<p><b>Doors</b> Frame shall be made from pressed steel 3 sided frame using CR steel of size 55 mm x 40 mm x 1.6 mm confirmed to IS 513 : 1986 (Reaffirmed 2013) with amdt No 1. It will also have 4 Nos 100 mm long MS hinges welded on to the frame. <b>Shutter will be made out of sandwiched PUF panel of 50 mm thickness.</b> The door shutter shall be fixed with door frame with hinges. The door shutter shall be provided with 2 Nos MS oxidized Aldrop of 300 mm length. MS oxidized tower bolts of size 200 mm at the top and 100 mm at the bottom on each shutter and two Nos 150 mm long handles including one nos of helical door spring and one of Aluminium door stopper. Door Shutter size is 2080 mm x 915 mm. Aluminum Hasp &amp; staple 01 each on front side. <b>Make: TATA/SAIL/JINDAL/ISI MARKED</b></p>	Nos.	06	
9	<p><b>Windows.</b> 1.5 mm thick Aluminum channels will be used for window frames. There will be two sliding type shutters in each window and glass sheet of 4 mm thickness shall be fixed. The frame shall have grill made from aluminum wire mesh. Window size is 915 mm x 1220 mm <b>Make: ISI MARKED</b></p>	Nos	12	
10	<p><b>Walls.</b> All walls shall be made of vertical sandwiched PUF panel sheet of the thickness 50 mm. The outer sheet of sandwiched panel will be 0.4 mm and inner sheet will be 0.4 mm and color off white. <b>Make: ISI MARKED</b></p>	SQM	250	
<b>Electrical Appliances/Fittings</b>				
11.	(a)	PVC insulated cable 1.5 Sqmm single core copper conductor unsheathed conforming to IS 694-1990, <b>Make: HAVELLS/ANCHOR/FINOLEX.</b>	RM	90
	(b)	1 Sqmm single core multi stranded copper conductor FR PVC insulated (unsheathed) heavy duty cable. <b>Make: HAVELLS/ANCHOR/FINOLEX.</b>	RM	50
	(c)	PVC Insulated Cable 10 Sqmm 2 Core Aluminum conductor unarmored with 4 mm dia GI wire and round type insulator S/C . <b>Make: HAVELLS/ANCHOR/FINOLEX.</b>	RM	80
	(d)	Flexible wire three core 23/0.0076 confirming to IS 9537 PT-III 1983. <b>Make: HAVELLS/ANCHOR/FINOLEX.</b>	RM	30
	(e)	LED Tube light fitting 20-watt, Ultra bright glass shell, glare free, wide angle, double side connection retrofit LED tube G13 lamp, holder complete with fixing accessories. <b>Make :- BAJAJ/PHILIPS/HAVELLS.</b>	Nos	10
	(f)	Bulk head luminary cast aluminum alloy housing gray powder coated, heat resistant prismatic glass cover with gasket and wire guard suitable for LED 20 watts. <b>Make: BAJAJ/PHILIPS/WIPRO.</b>	Nos	2
	(g)	PVC ceiling rose 4"dia, <b>Make: - BAJAJ/PHILIPS/WIPRO.</b>	Nos	12
	(h)	Switch piano type 5/6 Amps 230 Volts conforming to IS-3854-1966. <b>Make :- ANCHOR/HAVELLS/BAJAJ.</b>	Nos	12
	(i)	Switch socket combination 5/6 Amp multisocket for 2 and 3 pin with box type, <b>Make:- ANCHOR/HAVELLS/BAJAJ.</b>	Nos	2

(k)	Switch board T/W 4" x 4" conforming IS-347-1975 with 3mm thick hylam sheet. <b>Make: - ANCHOR/HAVELLS/BAJAJ.</b>	Nos	12
(l)	CP screw 25mm (per pkt 100 Nos)	Pkt	1
(m)	PVC Insulation Tape of size 20 mm ISI Marked. <b>Make: STEEL GRIP/FINOLEX.</b>	Nos	3
(n)	PVC casing capping square box 20 x 16 mm conforming to IS-14927 (Part-II) <b>Make: ANCHOR/WIPRO/POLY PLAST.</b>	RM	100
(o)	PVC Exhaust fan shutter type with louvres AC SP 230/240V of size 300mm sweep, motor speed 1800RPH, power consumption 30 watt. <b>Make: - USHA/HAVELLS/BAJAJ</b>	Nos	2
(p)	Change over switch 63 Amps, 240V DP conforming to IS 13947-1993. <b>Make: HAVELLS/ANCHOR/PHILIPS</b>	Nos	1
(q)	Distribution board sheet power coated for MCB/DBs with copper busbar incl neutral link earthing stud 6 way. <b>Make: HAVELLS/ANCHOR/PHILIPS</b>	Nos	1
(r)	MCB SP 06 to 32 Amp, 240-volt, 50 Hz <b>Make: HAVELLS/ANCHOR/PLAZA</b>	Nos	4
(s)	MCB SPN 40 Amps, 240-volt, 50 Hz <b>Make: HAVELLS/ANCHOR/PLAZA</b>	Nos	1
(t)	Square box for fixing of security light fitting. <b>Make: - ANCHOR/HAVELLS/BAJAJ.</b>	Nos	2
(u)	Angle Holder <b>Make: ANCHOR/HAVELLS/PHILIPS.</b>	Nos	9
(v)	LED 9-Watt bulb <b>Make: BAJAJ/PHILIPS/WIPRO.</b>	Nos	9
(w)	GI Service bracket of 1.2 mtr long of GI pipe light grade 40 mm dia best quality.	Nos	1

Appendix K ( Annexure VI )



Perspective View

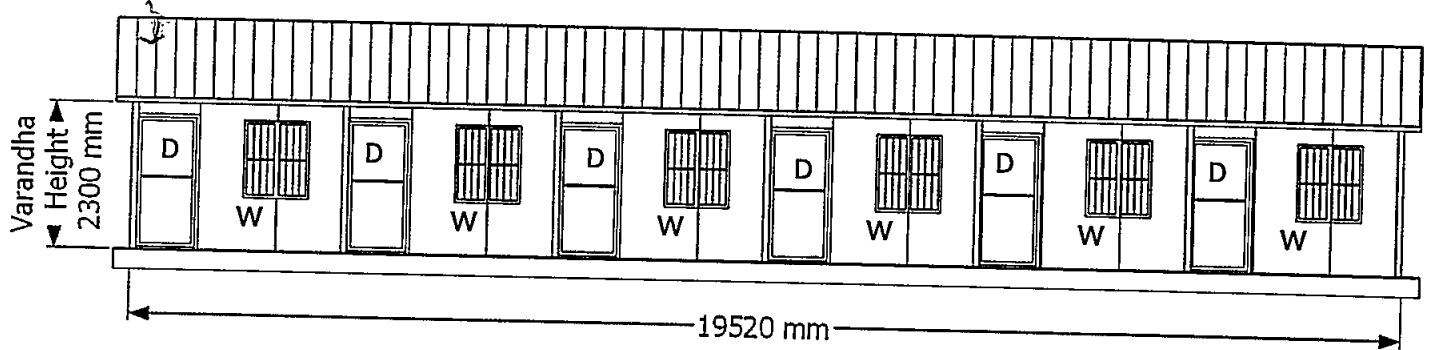


Side View

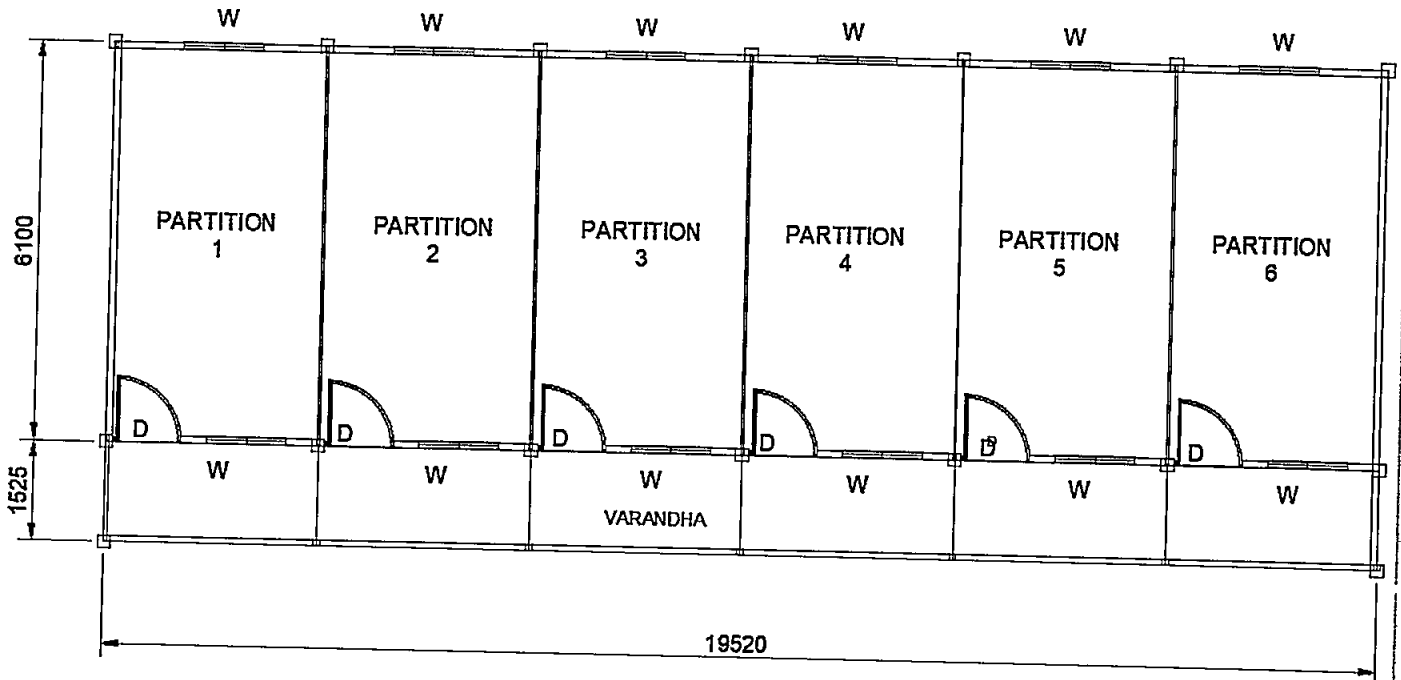
TOLERANCES FOR STRUCTURES DIMENSIONS UOPT  
 3 MTR +/- 100 MM 3 MTR TO 6 MTR +/- 150 MM  
 BEYOND 6 MTR +/- 200 MM

SCHEDULE OF OPENING				
S.L	MARKED	DESC.	SIZE	NOS.
1	D	DOOR	2.080X0.915M	6
2	W	WINDOW	1.220X0.900M	12
3	V	VENTILATION	0.610X0.450M	6
4	T	TRUSS	6.100 M	7
5	P	PURLIN	-	70

SUB TITLE	GENERAL VIEW
TITLE	PRE FABRICATED SHELTER WITH VARANDHAH
DRG. NO.	FPS/03
CHKD. BY	



Front View



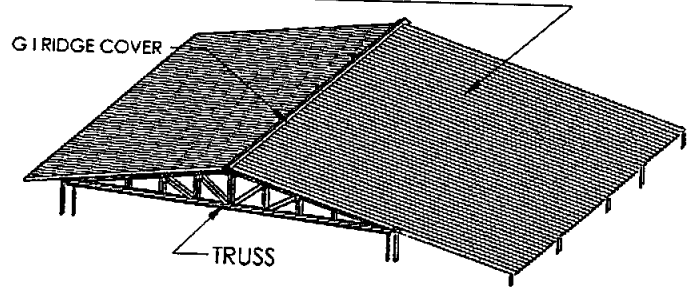
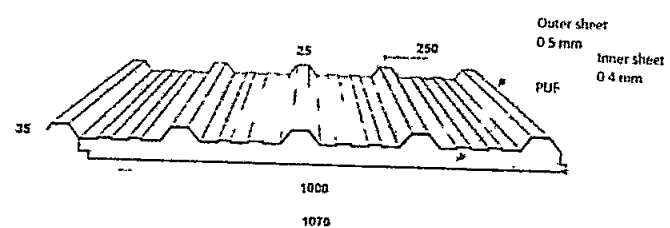
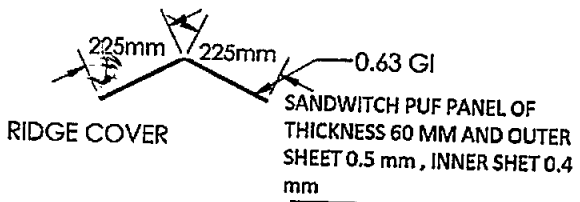
LAYOUT PLAN

TOLERANCES FOR STRUCTURES DIMENSIONS UOPT  
 3 MTR +/- 100 MM 3 MTR TO 6 MTR +/- 150 MM  
 BEYOND 6 MTR +/- 200 MM

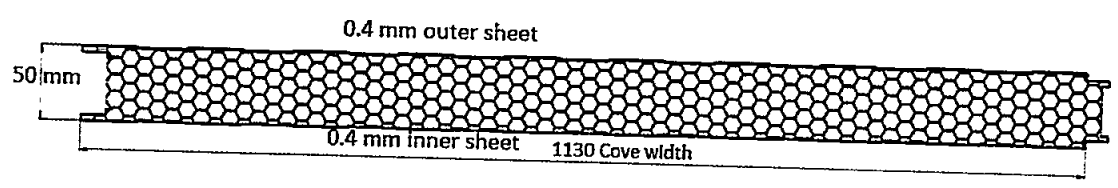
SCHEDULE OF OPENING

S.L	MARKED	DESC.	SIZE	NOS.
1	D	DOOR	2.080X0.915M	6
2	W	WINDOW	1.220X0.900M	12
3	V	VENTILATION	0.610X0.450M	6
4	T	TRUSS	6.100 M	7
5	P	PURLIN	-	70

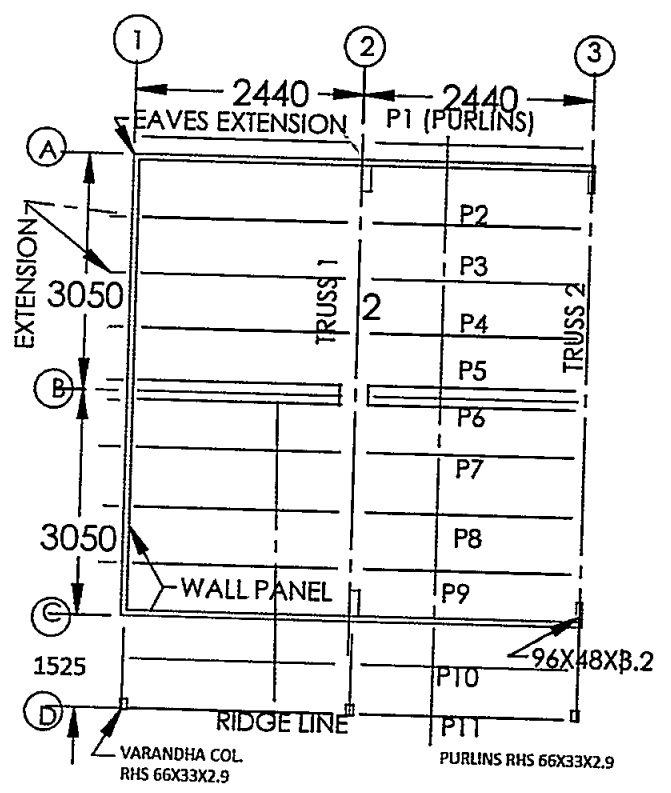
SUB TITLE	FRONT VIEW AND PLAN LAYOUT
TITLE	PRE FABRICATED SHELTER WITH VARANDAH
DRG. NO.	FPS/03
CHKD. BY	



Roof PUF Panel

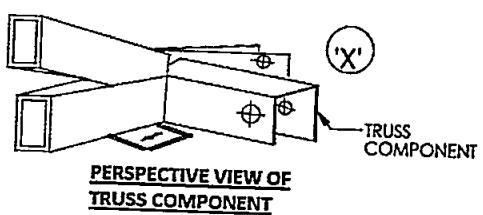
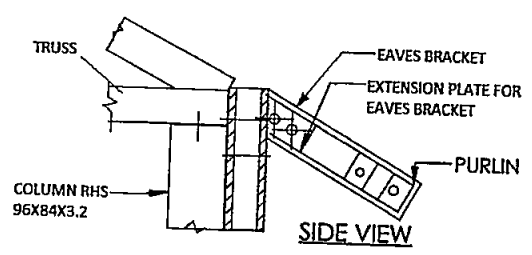
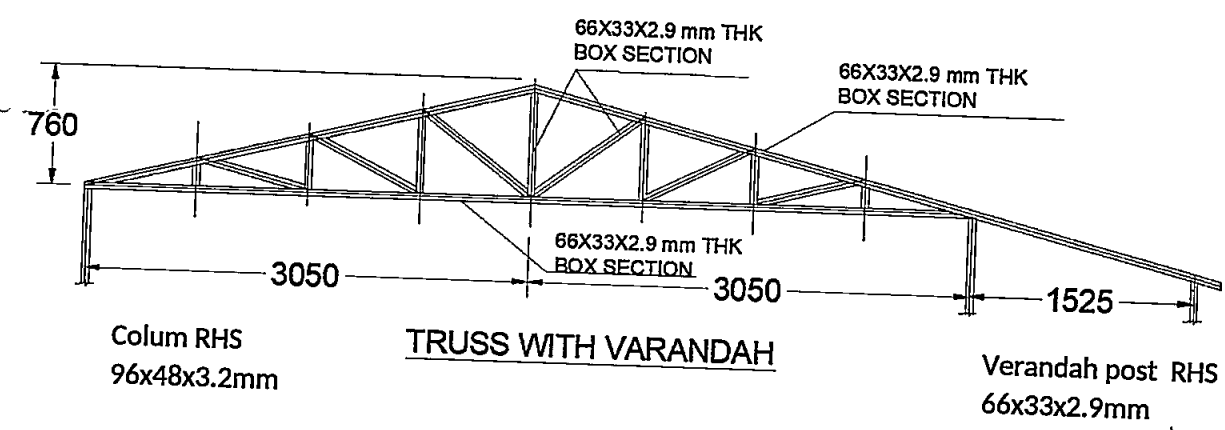
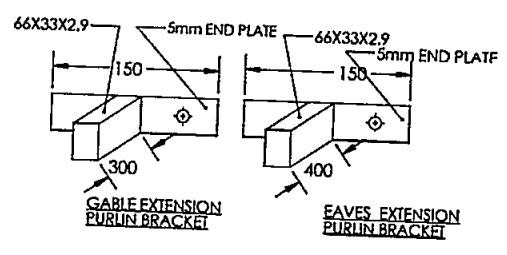
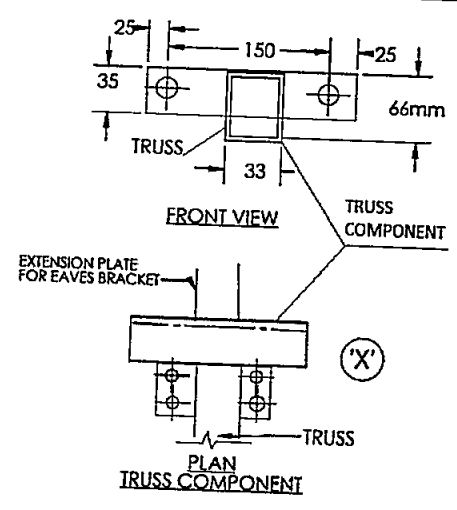
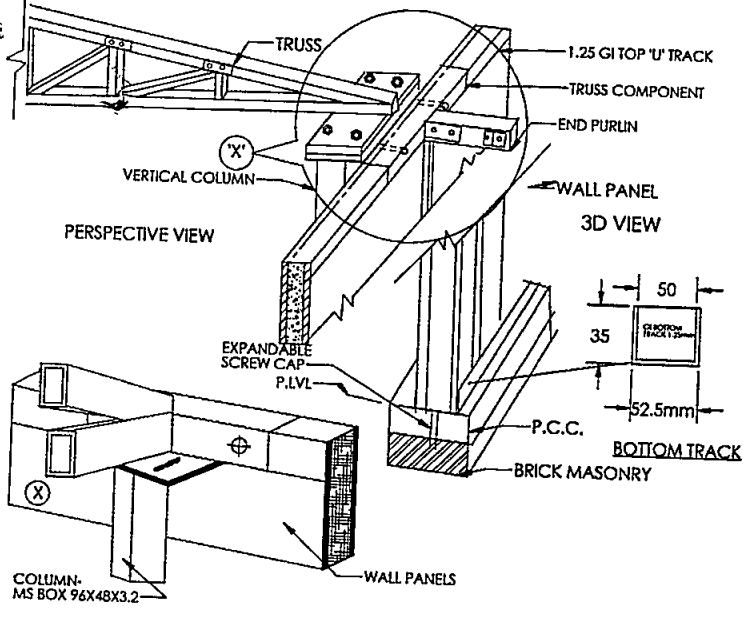


Wall PUF Panel



**SECTIONAL PURLIN PLAN AT ROOF LEVEL OF 19.52X6.1X2.74 MTR WITH VARANDHA**

SUB TITLE	PURLIN AND ROOF LAYOUT
TITLE	PRE FABRICATED SHELTER WITH VARANDHA
DRG. NO.	FPS/03
CHKD. BY	



TOLERANCES FOR STRUCTURES DIMENSIONS UOPT  
 3 MTR +/- 100 MM 3 MTR TO 6 MTR +/- 150 MM  
 BEYOND 6 MTR +/- 200 MM

SCHEDULE OF OPENING				
S.L	MARKED	DESC.	SIZE	NOS.
1	D	DOOR	2.080X0.915M	6
2	W	WINDOW	1.220X0.900M	12
3	V	VENTILATION	0.610X0.450M	6
4	T	TRUSS	6.100 M	7
5	P	PURLIN	-	70

SUB TITLE	TRUSS AND TRUSS COMPONENTS
TITLE	PRE FABRICATED SHELTER WITH VARANDAH
DRG. NO.	FPS/03
CHKD. BY	

4. **SPECIFICATION SUPPLY OF PRE-FABRICATED SHELTER**

Ser No	Brief Specification	A/U	Qty
1	Supply of pre-fabricated shelter with partitions of size 19.52 x 4.88 m and 2.74 m clear height up to ceiling with verandah 1.2 m wide. The shelter shall consist of 4 doors, 8 windows.	Nos	1
2	<b>General Layout.</b> Refer Drawing no PFS/04 (Attached as Appx K, Annx VIII )		
3	<b>Dimensions.</b> (a) <b>Shelter.</b> 19.52 m x 4.88 m x 2.74 m ( Up to clear ceiling height ) with verandah 1.2 m wide.		
4	<b>DESIGN PARAMETERS.</b>		
	(a) Seismic - Zone V		
	(b) Wind Pressure - To stand wind pressure 200 Kg/ Sq Mtr		
	(c) Temperature Range - (-10°) to (+) 50°C		
	(d) Thermal Insulation - 0.25W/m deg K		
	(e) Acoustic transmission > 40 db		
	(f) Fire Propagation <60 min		
5	<b>Details Material Specifications.</b> Detailed specification of the shelter is as given below and enumerated in attached drawings.		
6	<b>STRUCTURAL ELEMENTS.</b> The steel structure for the shelters will be designed for the Design Parameters as enumerated at Para 4 and for the dimensions as indicated in the drawings mentioned at Para 5 above. <b>All structural steel will be pre painted with two coat OG synthetic enamel over one coat of primer red oxide</b> and as per IS - 4923 - 1968 with manufacturer's test certificate for structural properties.		
	(a) <b>Columns.</b> The main columns will be made out of MS rectangular hollow section of size 96mm x 48mm x 3.20 mm conforming to IS 4923: 1997 and will be fixed using 8mm thick MS end plate 150x150 x 8mm thick at top and 4 Nos 10mm dia 50 mm length nut & bolts at top level. The column shall be welded with 200 x 200 x 8mm thick MS plate at bottom and shall be fixed to the foundation with 4 Nos bolts 16mm dia 450mm long through this plate. <b>Make: TATA/SAIL/JINDAL/APOLLO</b>	Nos.	18
	(b) <b>Truss</b> Trusses shall be made of MS rectangular hollow section of size 66x33x2.9 mm conforming to IS 4923-1997. The trusses are provided at a distance of 2.44 mtr c/c and shall be supported on suitable columns. Two Nos MS plate of size 150 x 150 x 8mm thick should be welded to each truss to tie with top plate of the columns. Suitable arrangement of 100x100x5mm thick cleats with nos 04 drilled holes of dia 12 mm for fixing purlins.	Nos	09

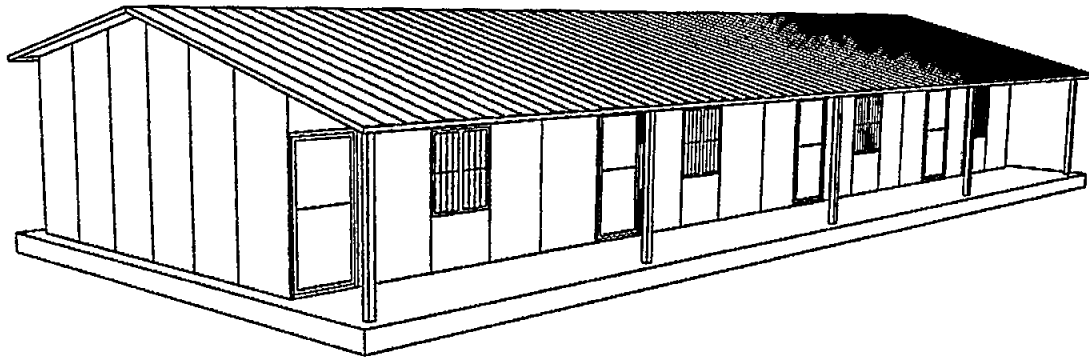
	(c)	<b>Purlin.</b> The purlins will be fabricated out of RH steel sections of size 66mm x 33mm x 2.90mm with 100x100x5 mm thick cleats welded at both the ends with 04 nos drilled holes of dia 12 mm with 04 Nos 12 mm dia 40 mm length suitable nut and bolts for fastening. <b>Make: TATA/SAIL/JINDAL/APOLLO</b>	Nos	80
	(d)	<b>Gable end purlin</b> 300mm long made of rectangular hollow steel section of size 66mm x 33mm, 2.9mm thick weight not less than 4.75 Kg/m conforming to IS: 4923: 1997 along with base plate of size 66mm x 150mm x 5mm for fixing with purlin/gable end. <b>Make: TATA/SAIL/JINDAL/APOLLO</b>	Nos	20
	(e)	<b>Runner.</b> Two runners/U tracks to fix PUF Panels for wall with suitable cleats & nut and bolts to fix on column and will be fabricated out of RH steel sections of size 66mm x 33mm x 2.90mm along the length of wall on four sides incl Gable end. At gable end on each side, two nos RHS 66mm x 33mm x 2.90mm of length 2.7 m vertical member placed at 2 m from with suitable cleats for fixing runner at Gable end. <b>Make: TATA/SAIL/JINDAL/APOLLO</b>	Nos	2
	(f)	<b>Verandah Column:</b> The columns will be made out of MS hollow section of size RHS 66x33x2.90 mm conforming to IS 4923: 1997 and will be fixed using 8mm thick MS end plate 100x100 x 8mm thick at top and 4 Nos 10mm dia 50 mm length nut & bolts at top level. The column shall be welded with 150 x 150 x 8mm thick MS plate at bottom and shall be fixed to the foundation with 4 Nos bolts 16mm dia 450mm long through this plate.	Nos	5
	(g)	<b>Verandah Purlin:</b> The purlins will be fabricated out of RH steel sections of size 66mm x 33mm x 2.90mm	Nos	24
7		<b>Roof.</b> The roof slope shall be 1:3 approx. The wall height shall be 2.740 m at eaves and 3.50 m at central gable. The roof shall be done with sandwiched PUF panel of 60 mm thick. The outer sheet will of 0.5 mm and inner sheet will be of 0.4 mm. These panels are laid over a frame work trusses, columns and purlins fixed using Self tapping screws. A pre painted galvanized steel sheet ridge cover of size 3050 mm x 600 mm x 0.5 mm is to be fixed on ridge portion of the roof using Self tapping screws. The roof shall be projected at least 300 mm around all sides of shelter. The roof panels to be fixed on purlin of size RHS 66 mm x 33 mm x 2.9 mm as directed with suitable fastening arrangements. <b>Wind Tie.</b> 03 Nos wind ties of 40mm x 4 mm MS flat on each side will be provided along the length for 20.12m. <b>Make: TATA/SAIL/JINDAL/APOLLO</b>	SQM	140

8.	<b>Doors.</b> Frame shall be made from pressed steel 3 sided frame using CR steel of size 55 mm x 40 mm x 1.5 mm confirmed to IS 513 : 1986 (Reaffirmed 2013) with amdt No 1. It will also have 4 Nos 100 mm long MS hinges welded on to the frame. Shutter will be made out of sandwiched PUF panel of 50 mm thickness. The outer sheet will be of 0.4 mm and inner sheet will be 0.4 mm. The door shutter shall be fixed with door frame with hinges. The door shutter shall be provided with 2 Nos MS oxidized aldraps of 300 mm length. MS oxidized tower bolts of size 200 mm at the top and 100 mm at the bottom on each shutter and two Nos 150 mm long handles including one nos of helical door spring and one of Aluminum door stopper. Door Shutter size is 2080 mm x 915 mm . Aluminum Hasp & staple 01 each on front side. <b>Make: TATA/SAIL/JINDAL/ISI MARKED</b>	Nos	8
9	<b>Windows.</b> 1.5 mm thick Aluminum channels will be used for window frames. There will be two sliding type shutters in each window and glass sheet of 4 mm thickness shall be fixed. The frame shall have grill made from aluminum wire mesh. Window size is 915 mm x 1220 mm <b>Make: ISI MARKED</b>	Nos	8
10	<b>Walls.</b> All walls and partition walls shall be made of vertical sandwiched PUF panel sheet of the thickness 50 mm. The outer sheet of sandwiched panel will be 0.4 mm and inner sheet will be 0.4 mm and color off white. <b>Make: ISI MARKED</b>	SQM	178

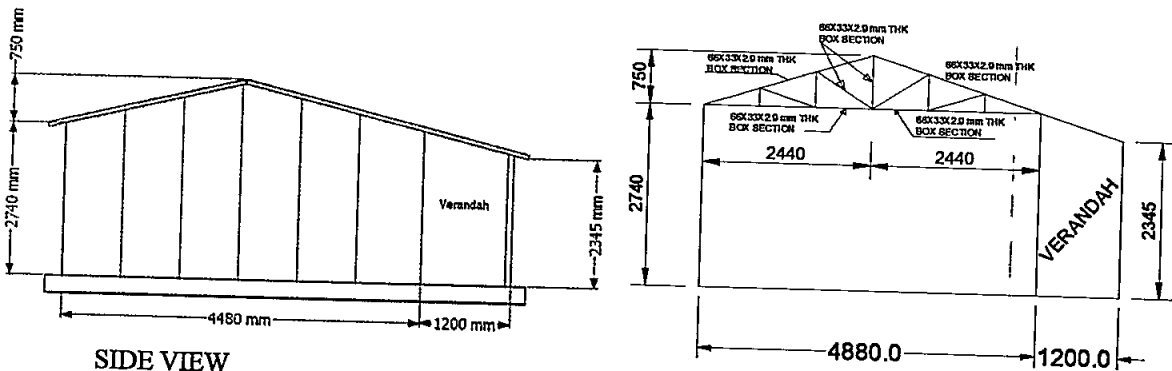
11	<b>Electrical Appliances/Fittings</b>		
(a)	PVC insulated cable 1.5 Sqmm single core copper conductor unsheathed conforming to IS 694-1990, <b>Make :HAVELLS/ANCHOR/FINOLEX.</b>	RM	90
(b)	1 Sqmm single core multi stranded copper conductor FR PVC insulated (unsheathed) heavy duty cable. <b>Make :HAVELLS/ANCHOR/FINOLEX.</b>	RM	50
(c)	PVC Insulated Cable 10 sqmm 2 Core Aluminium conductor unarmoured with 4 mm dia GI wire and round type insulator S/C <b>Make :HAVELLS/ANCHOR/FINOLEX.</b>	RM	80
(d)	Flexible wire three core 23/0.0076 confirming to IS 9537 PT-III 1983 <b>Make :HAVELLS/ANCHOR/FINOLEX.</b>	RM	30
(e)	LED Tube light fitting 20 watt, Ultra brigh glass shell, glare fee, wide agnle, double side connection retrofit LED tube G 13 lamp, holder complete with fising accessories. <b>Make :- BAJAJ/PHILIPS/HAVELLS.</b>	Nos	10
(f)	Bulk head luminary cast aluminium alloy housing gray powder coated, heat resistant prismatic glass cover with gasket and wire guard suitable for LED 20 watts. <b>Make : BAJAJ/PHILIPS/WIPRO.</b>	Nos	2
(g)	PVC ceiling rose 4"dia, <b>Make :- BAJAJ/PHILIPS/WIPRO.</b>	Nos	8

(h)	Switch piano type 5/6 Amps 230 Volts conforming to IS-3854-1966. <b>Make :- ANCHOR/HAVELLS/BAJAJ.</b>	Nos	8
(j)	Switch socket combination 5/6 Amp multisocket for 2 and 3 pin with box type, <b>Make :- ANCHOR/HAVELLS/BAJAJ.</b>	Nos	2
(k)	Switch board T/W 4" x 4" conforming IS-347-1975 with 3mm thick hylam sheet. <b>Make :- ANCHOR/HAVELLS/BAJAJ.</b>	Nos	8
(l)	CP screw 25mm (per pkt 100 Nos)	Pkt	1
(m)	PVC Insulation Tape of size 20 mm ISI Marked. <b>Make: STEEL GRIP/FINOLEX.</b>	Nos	3
(n)	PVC casing capping square box 20 x 16 mm conforming to IS-14927(Part-II) <b>Make : ANCHOR/WIPRO/POLY PLAST.</b>	RM	100
(o)	PVC Exhaust fan shutter type with louvres AC SP 230/240V of size 300mm sweep , motor speed 1800RPH, power consumption 30watt. <b>Make :- USHA/HAVELLS/BAJAJ</b>	Nos	2
(p)	Change over switch 63 Amps, 240V DP conforming to IS 13947-1993. <b>Make: HAVELLS/ANCHOR/PHILIPS</b>	Nos	1
(q)	Distribution board sheet power coated for MCB/DBs with copper busbar incl neutral link earthing stud 6 way. Make: HAVELLS/ANCHOR/PHILIPS	Nos	1
(r)	MCB SP 06 to 32 Amp, 240 volt , 50Hz Make: HAVELLS/ANCHOR/PLAZA	Nos	4
(s)	MCB SPN 40 Amps, 240volt, 50Hz Make: HAVELLS/ANCHOR/PLAZA	Nos	1
(t)	Square box for fixing of security light fitting. Make :- ANCHOR/HAVELLS/BAJAJ.	Nos	2
(u)	Angle Holder Make: ANCHOR/HAVELLS/PHILIPS.	Nos	9
(v)	LED 9 Watt bulb Make: BAJAJ/PHILIPS/WIPRO.	Nos	9
(w)	GI Service bracket of 1.2 mtr long of GI pipe light grade 40 mm dia best quality.	Nos	2

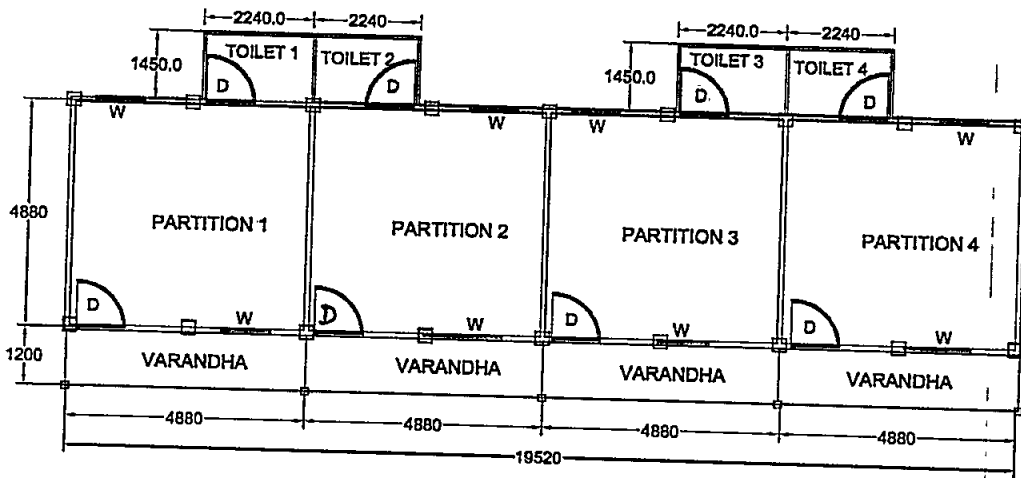
12.	<u>Toilet fittings</u>		
(a)	Commode with fittings. Make: Hindware / Watertech	Set	4
(b)	PVC Hand faucet with fittings Make : Supreme	Nos	4
(c)	PVC angle cock Make : Supreme	Nos	8
(d)	4" PVC pipe (10 ') Make : Supreme/Ashirbad	Nos.	4
(e)	PVC bucket tap Make : Supreme/Prince	Nos	4
(f)	PVC shower Make : Supreme/Prince	Nos	4
(g)	½ " and ¾" PVC plumbing fittings, stop cock, Make : Supreme/Prince/Ashirbad	Set	4



PERSPECTIVE VIEW



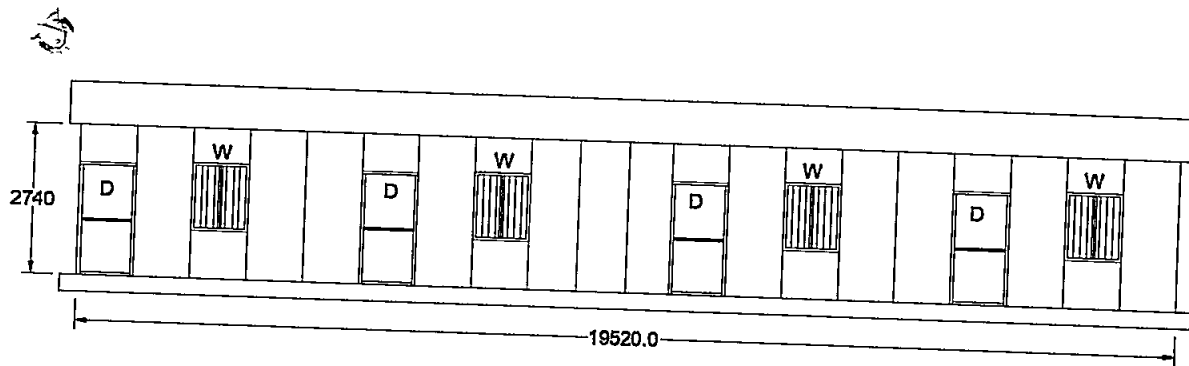
SIDE VIEW



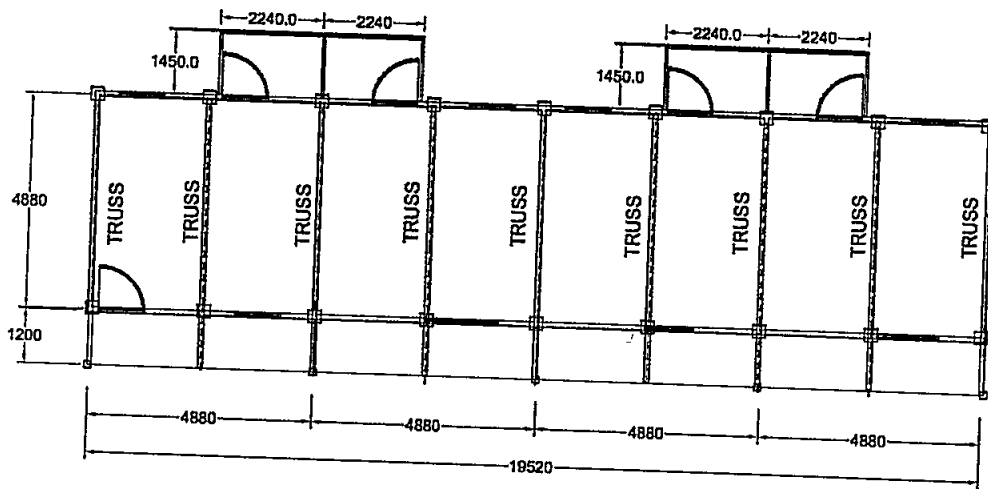
LAYOUT PLAN

TOLERANCES FOR STRUCTURES DIMENSIONS UOPT				
3 MTR +/- 100 MM 3 MTR TO 6 MTR +/- 150 MM				
BEYOND 6 MTR +/- 200 MM				
SCHEDULE OF OPENING				
S.L	MARKED	DESC.	SIZE	NOS.
1	D	DOOR	2.080X0.915M	8
2	W	WINDOW	1.220X0.900M	8
4	T	TRUSS	6.100 M	9
5	P	PURLIN	-	80

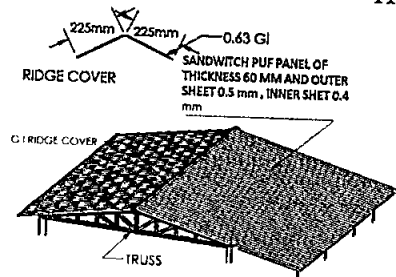
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TITLE	PREFABRICATED SHELTER WITH VERANDAH SIZE 19.52X4.88X2.740 M
DRG. NO	FPS/04
CHECKED BY	



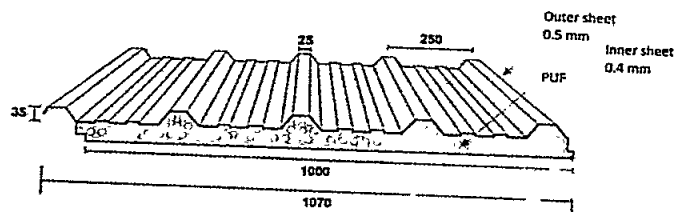
FRONT VIEW



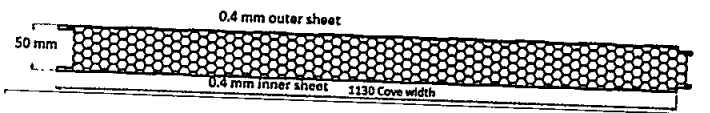
TRUSS LAYOUT



TYPICAL ROOF



ROOF PUF PANEL SIZE

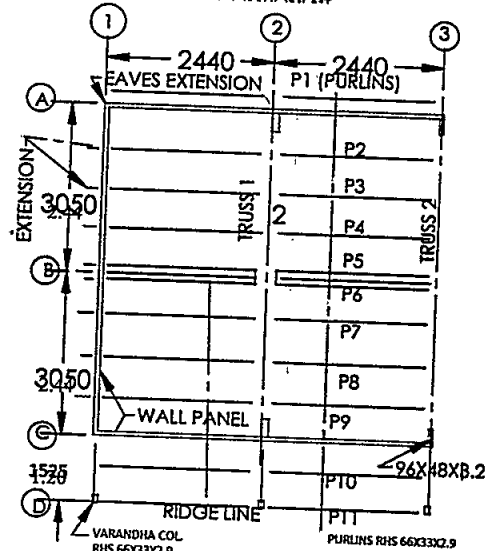
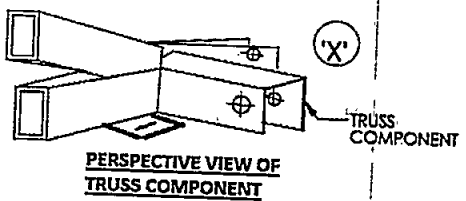
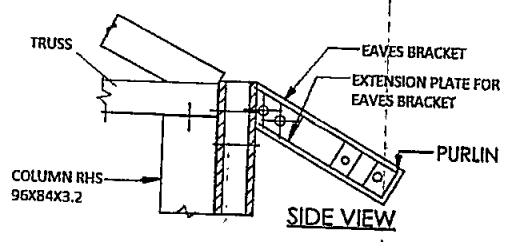
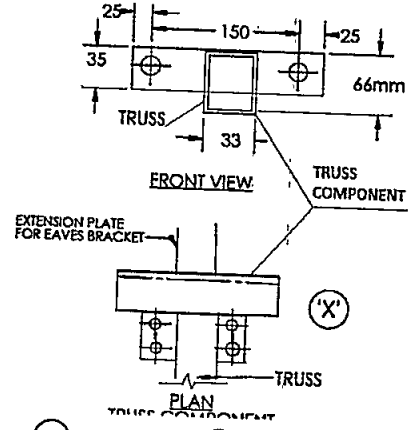
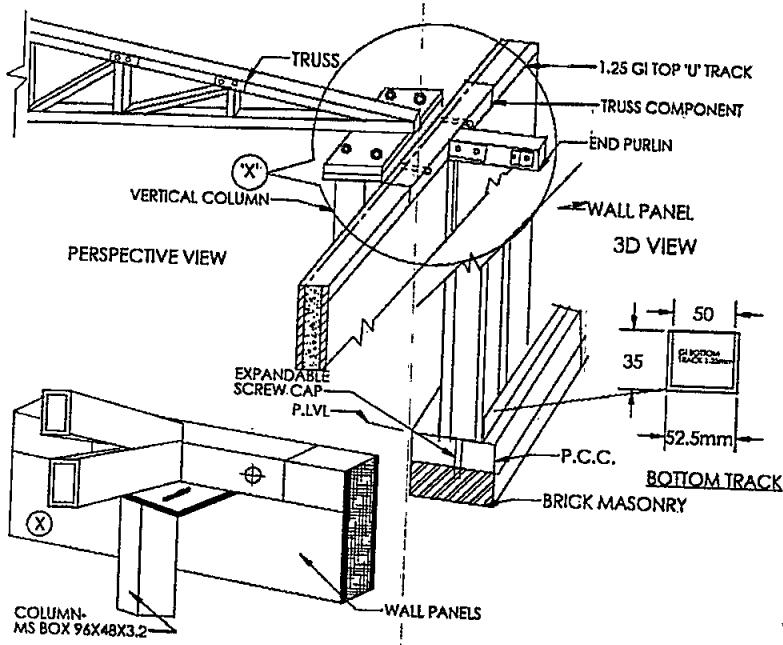


WALL PUF PANEL SIZE

TOLERANCES FOR STRUCTURES DIMENSIONS UOPT  
 3 MTR +/- 100 MM 3 MTR TO 6 MTR +/- 150 MM  
 BEYOND 6 MTR +/- 200 MM:

SCHEDULE OF OPENING				
S.L	MARKED	DESC.	SIZE	NOS.
1	D	DOOR	2.080X0.915M	8
2	W	WINDOW	1.220X0.900M	8
4	T	TRUSS	6.100 M	9
5	P	PURLIN	-	80

SUB TITLE	ROOR AND TRUSS LAYOUT
TITLE	PREFABRICATED SHELTER WITH VERANDAH SIZE 19.52X4.88X2.740 M
DRG. NO	FPS/04
CHECKED BY	



**SECTIONAL PURLIN PLAN AT ROOF LEVEL OF 19.52X6.1X2.74 MTR WITH VARANDHA**

TOLERANCES FOR STRUCTURES DIMENSIONS (UOPT)

3 MTR +/- 100 MM 3 MTR TO 6 MTR +/- 150 MM

BEYOND 6 MTR +/- 200 MM

SCHEDULE OF OPENING				
S.L	MARKED	DESC.	SIZE	NOS.
1	D	DOOR	2.080X0.915M	8
2	W	WINDOW	1.220X0.900M	8
4	T	TRUSS	6.100 M	9
5	P	PURLIN	-	80

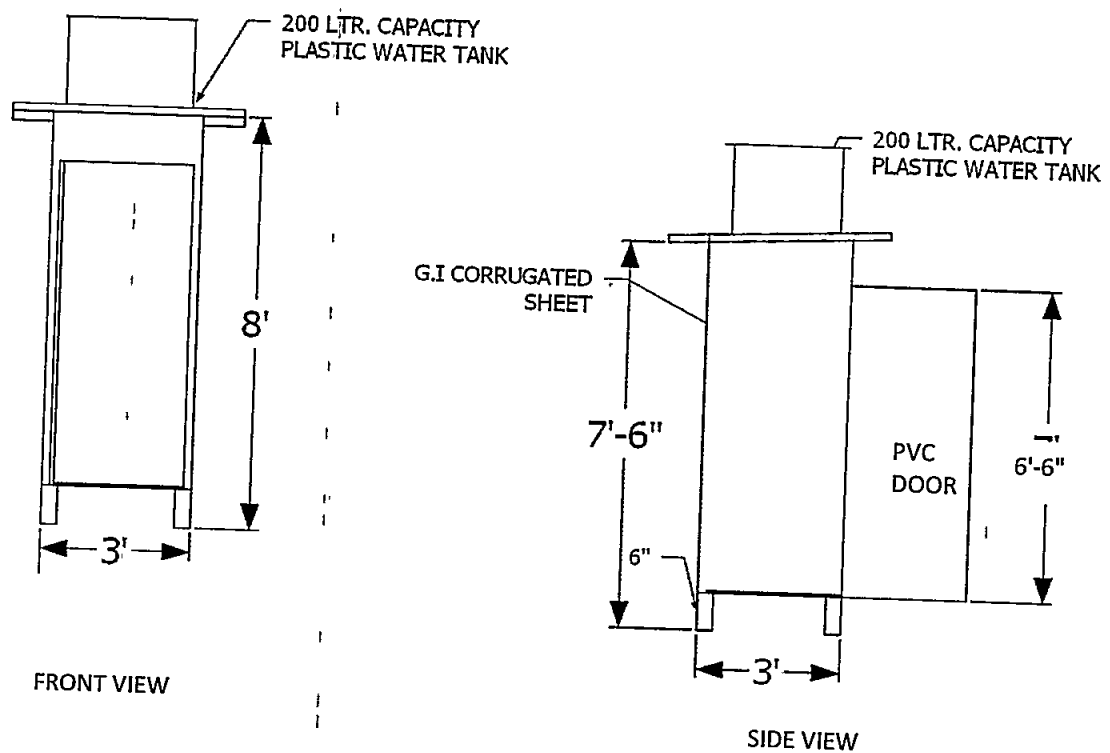
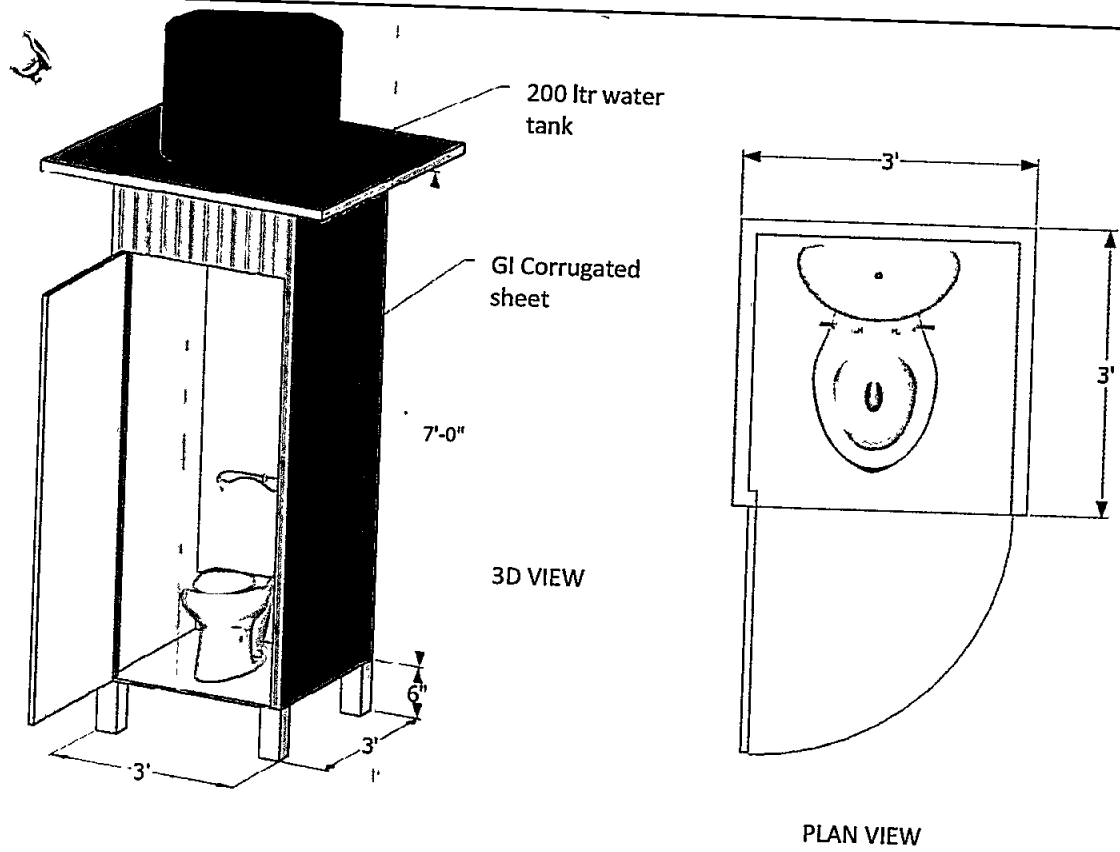
SUB TITLE	PURLIN LAYOUT AND ROOF COMPONENTS
TITLE	PREFABRICATED SHELTER WITH VARANDHA SIZE 19.52X4.88X2.740 M
DRG. NO	FPS/04
CHECKED BY	

**SPECIFICATION SUPPLY OF MODULAR PORTABLE TOILET**

Ser No	Brief Specification	A/U	Qty
1	Supply of Modular portable Toilet of size 3ft length x 3ft width and 8ft height, door 3ft width with 200 ltr water tank capacity	Nos	1
2	<b>General Layout.</b> Refer Drawing no PFS/05 (Attached in page no. 3)		
3	<b>Dimensions.</b> (a) <b>Toilet</b> : 3 ft x 3 ft x 8 ft ( Up to clear ceiling height )		
4	<b>DESIGN PARAMETERS.</b>		
	(a) Seismic - Zone V		
	(b) Wind Pressure - To stand wind pressure 150 Kg/ Sq Mtr		
	(c) Temperature Range - (-10°) to (+) 50°C		
	(d) Thermal Insulation - 0.25W/m deg K		
	(e) Acoustic transmission > 40 db		
	(f) Fire Propagation <60 min		
5	<b>Details Material Specifications.</b> Detailed specification of the shelter is as given below and enumerated in attached drawings.		
6	<b>STRUCTURAL ELEMENTS.</b> The steel structure for the shelters will be designed for the Design Parameters as enumerated at Para 4 and for the dimensions as indicated in the drawings mentioned at Para 5 above. <b>All structural steel will be pre painted with two coat OG synthetic enamel over one coat of primer red oxide</b> and as per IS - 4923 - 1968 with manufacturer's test certificate for structural properties.		
7	(a) <b>Columns.</b> The main columns will be made out of MS Square hollow section of size 50x50x2.5 mm conforming to IS 4923: 1997 . 4 nos base plate of size 100x100x6mm shall be welded at bottom. Make: TATA/SAIL/JINDAL/APOLLO	Nos.	04
	(b) <b>Top frame and bottom frame:</b> Bottom frame will be made of ISMC 75 and stiffeners of ISA 50x6 conforming to IS 808: 2021. will be welded on the bottom frame . Top frame shall be made of MS square hollow section of size 50x50x2.5 and stiffeners 40x25x2 mm conforming to IS 4923-1997.	Nos	01

	(c) <b>Purlin.</b> The purlins will be fabricated out of RH steel sections of size 40x25x2 mm. <b>Make: TATA/SAIL/JINDAL/APOLLO</b>	Nos	1
8	<b>Roof.</b> The roof shall be single sloped 1:4 approx. <u>GI sheet will be fixed on the roof purlins.</u>  <b>TATA/SAIL/JINDAL/APOLLO</b>	Nos	1
9	<b>Doors.</b> Frame shall be made from pressed steel 3 sided frame using CR steel of size 45 mm x 35 mm x 1.5 mm confirmed to IS 513 : 1986 (Reaffirmed 2013) with amdt No 1. It will also have 4 Nos 100 mm long MS hinges welded on to the frame. Shutter will be made out of PVC board of 25 mm thick . The door shutter shall be fixed with door frame with hinges . The door shutter shall be provided with 2 Nos MS oxidized aldrops of 300 mm length. MS oxidized tower bolts of size 200 mm at the top and 100 mm at the bottom on each shutter. Door Shutter size is 6'8"x2'6" <b>Make: TATA/SAIL/JINDAL/ISI MARKED</b>	Nos.	1

10	<b>Walls.</b> <b>Outer wall :</b> All outer walls will be made with 20 gauge G.I specially corrugated sheet. <b>Inner wall:</b> All inner wall will be made with colored ACP sheet to and be fixed on MS wall frame structure.  <b>Make: ISI MARKED</b>	Nos	1
11	<b>Floors:</b> 2.5 mm thick Aluminum chequered plate will be fixed on the bottom stiffener angle with suitable set screw. <b>Make: ISI MARKED</b>	Nos.	1
12	<b>Toilet:</b> One commode with cistern, hand shower, angle cock will be provided with all plumbing fittings. <b>Make: ISI MARKED</b>	Nos	1
13	<b>Water tank:</b> One 200 Ltr. Capacity water tank will be placed at the top of toilet roof with suitable clamps. <b>Make: ISI MARKED</b>	Nos	1



TOLERANCES FOR STRUCTURES DIMENSIONS UOPT					SUB TITLE	
3 MTR +/- 100 MM 3 MTR TO 6 MTR +/- 150 MM					GENEREL VIEW	
BEYOND 6 MTR +/- 200 MM					TITLE	
SCHEDULE OF OPENING					PORTABLE TOILET OF SIZE 3'X3'X8'	
					(LXBXH)	
S.L	MARKED	DESC.	SIZE	NOS.	DRG. NO.	FPS/05
1	D	DOOR	2.080X0.915M	1	CHKD. BY	