

30003/DTK/19TF/ENQ-05/E3ES

21 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                      | G : Technical specifications & drawing of containerized shelters & toilet |
| B : Technical Bid ('T' Bid)             | H : Technical specifications & drawing of containerized toilet            |
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**INVITATION OF QUOTATION FOR SUPPLY OF CONSTRUCTIONAL STORES  
(MODULAR INSULATED CONTAINERIZED LIVING SHELTER & MODULAR BIO TOILET)**

Dear Sir/Madam,

**INVITATION OF QUOTATION.**

1 This Project requires stores as per Appendix 'A' accordingly invites **OIE** 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 **12 May 2025**. 'T'-Bid will be opened on **14 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'.

(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/ Converter 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 Modular Insulated Containerized living Shelter and Modular Insulated Containerized 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 Modular Insulated Containerized living Shelter and Modular Insulated Containerized 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 Modular Insulated Containerized living Shelter and Modular Insulated Containerized Toilet such as Light Weight Steel Sections, other steel and Aluminum Sections, glass, paints and all other fittings/ fixtures 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, GoI/ 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 'T' 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 **6,33,600/-** (Rupees six lakh thirty three thousand six 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/Convertor** 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 504 SS&TC (GREF) Phuentsholing and Dett A 504 SS&TC (GREF) Samdrup Jongkhar 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/Enq-05/E3ES dt 21 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

Contd. 5/

(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 120 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 **Modular Insulated containerized living Shelter and Modular Insulated containerized Toilet** will have to be completed within **120 days from the approval of pilot sample**. The stores are required to be delivered as per Appendix 'A' attached to this enquiry to the consignee unit **504 SS&TC (GREF), Phuentsholing (Bhutan) & 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 **504 SS&TC (GREF), Phuentsholing (Bhutan) & Dett 'A' 504 SS&TC (GREF), Samdrup Jongkhar (Bhutan)** and plan the transportation of the Containerized Shelter & Toilets, 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 **Modular Insulated Containerized Living Shelter and Modular Insulated Containerized 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 **Two years** 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 **120 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 from 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 Modular Insulated Containerized Living Shelter and Modular Insulated containerized 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 consigner 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 Modular Insulated containerized living Shelter/ Toilet amounting to 35% cost of total Supply Order.	1 (One)	30 %	Within 60 days of approval of pilot sample
(ii)	On completion of supply of Modular Insulated containerized living Shelter/ Toilet amounting to 35% cost of total Supply Order.	2 (Two)	30 %	Within 90 days of approval of pilot sample
(iii)	On completion of supply of Modular Insulated containerized living Shelter/ Toilet amounting to balance 30% cost of total Supply Order.	3 (Three)	40 %	Within 120 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 Modular Insulated Containerized Living Shelter and Modular Insulated Containerized Toilet at their premises or at F.O.R. location for the inspection of the Consignee 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 shelter. 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 1/2% (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 \_\_\_ Apr 2025. Format as per Appendix 'F'

**Special Conditions.**

37. The overall dimensions of the Modular Insulated Containerized Living Shelter and Modular Insulated Containerized 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 G, H & J.

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 Modular Insulated Containerized Living Shelter and Modular Insulated Containerized 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 Modular Insulated Containerized Living Shelter and Modular Insulated Containerized Toilet with water supply staging of Size and specification as per Appendix G, H & J 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.)

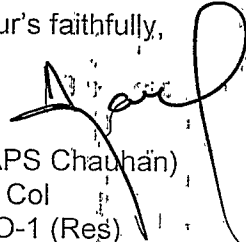
Address:-

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

LIST OF STORES

Annexure-I of Appendix 'A'

HQ CE (P) Dantak Eng No 30003/DTK/19TF/ENQ-05/E3ES dt 21 Apr 2025

Ser No	Nomenclature	A/U	Qty
<b>504 SS&amp;TC (GREF), Phuentsholing, Bhutan</b>			
1	Modular Insulated Containerized Living Shelter size 6.10 Mtr x 2.90 Mtr x 2.44 Mtr, including all electrical fittings and having 04 x Bedside locker of double locking system and 04 Nos double decker bunk bed with following specifications:- (a) Empty bed including the ladder should weight minimum of 56 Kgs. (b) 18 mm Ply-Two numbers per set. (c) Double coat red oxide painting & black paint over metallic surface (02 coats). (d) Square pipes used for bed to confirm to IS:4923, Make : TATA/ Apollo/ Swastik/ Avon/ Hitech.  <b>Detail technical specifications of containerized shelter, cupboard &amp; bed to be as given in Appendix 'G' (Annexure-I) &amp; layout plan as Appendix 'G' (Annexure-II).</b>	Nos	20
2	Supply of Modular Insulated Containerized Toilet with Bio Digestible Tank for 4.268 Mtr x 2.440 Mtr with clear height of 2.135 Mtr & having 3 bathroom & 3 shower room including all Electrical & Plumbing fittings and Supply & Fabrication of water supply steel staging with 500 Ltr capacity tank including all fittings.  <b>Detail technical specifications of containerized toilet &amp; water supply steel staging with 500 Ltr water tank to be as given in Appendix 'H' (Annexure-I &amp; II) and Appendix 'J' (Annexure-I &amp; II) respectively.</b>	Nos	10

Annexure-II of Appendix 'A'

Ser No	Nomenclature	A/U	Qty
<b>F.O.R : Dett 'A' 504 SS&amp;TC (GREF) Samdrup Jongkhar, Bhutan</b>			
3	Modular Insulated Containerized Living Shelter size 6.10 Mtr x 2.90 Mtr x 2.44 Mtr, including all electrical fittings and having 04 x Bedside locker of double locking system and 04 Nos double decker bunk bed with following specifications:- (a) Empty bed including the ladder should weight minimum of 56 Kgs. (b) 18 mm Ply-Two numbers per set. (c) Double coat red oxide painting & black paint over metallic surface (02 coats). (d) Square pipes used for bed to confirm to IS:4923, Make : TATA/ Apollo/ Swastik/ Avon/ Hitech.  <b>Detail technical specifications of containerized shelter, cupboard &amp; bed to be as given in Appendix 'G' (Annexure-I) &amp; layout plan as Appendix 'G' (Annexure-II).</b>	Nos	10
4	Supply of Modular Insulated Containerized Toilet with Bio Digestible Tank for 4.268 Mtr x 2.440 Mtr with clear height of 2.135 Mtr & having 3 bathroom & 3 shower room including all Electrical & Plumbing fittings and Supply & Fabrication of water supply steel staging with 500 Ltr capacity tank including all fittings.  <b>Detail technical specifications of containerized toilet &amp; water supply steel staging with 500 Ltr water tank to be as given in Appendix 'H' (Annexure-I &amp; II) and Appendix 'J' (Annexure-I &amp; II) respectively.</b>	Nos	33

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-05/E3ES dt 2\ 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 6,33, 600/-</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 15 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/-

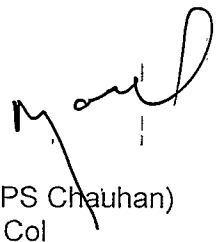
## PRICE BID ('Q' BID)

## Annexure-I of Appendix 'C'

HQ CE (P) Dantak Eng No 30003/DTK/19TF/ENQ-05/E3ES dt 21 Apr 2025

Ser No	Nomenclature	A/U	Qty	Basic Price (Unit price) Including Freight Charges	Total Amt
<b>Stores to be supplied to 504 SS &amp; TC (GREF) Phuentsholing (Bhutan)</b>					
1	<p>Modular Insulated Containerized Living Shelter size 6.10 Mtr x 2.90 Mtr x 2.44 Mtr, including all electrical fittings and having 04 x Bedside locker of double locking system and 04 Nos double decker bunk bed with following specifications:-</p> <p>(a) Empty bed including the ladder should weight minimum of 56 Kgs.</p> <p>(b) 18 mm Ply-Two numbers per set.</p> <p>(c) Double coat red oxide painting &amp; black paint over metallic surface (02 coats).</p> <p>(d) Square pipes used for bed to confirm to IS:4923, Make : TATA/ Apollo/Swastik/ Avon/ Hitech.</p> <p><b>Detail technical specifications of containerized shelter, cupboard &amp; bed to be as given in Appendix 'G' (Annexure-I) &amp; layout plan as Appendix 'G' (Annexure-II).</b></p>	Nos	20		
2	<p>Supply of Modular Insulated Containerized Toilet with Bio Digestible Tank for 4.268 Mtr x 2.440 Mtr with clear height of 2.135 Mtr &amp; having 3 bathroom &amp; 3 shower room including all Electrical &amp; Plumbing fittings and Supply &amp; Fabrication of water supply steel staging with 500 Ltr capacity tank including all fittings.</p> <p><b>Detail technical specifications of containerized toilet &amp; water supply steel staging with 500 Ltr water tank to be as given in Appendix 'H' (Annexure-I &amp; II) and Appendix 'J' (Annexure-I &amp; II) respectively.</b></p>	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/-

PRICE BID ('Q' BID)Annexure-II of Appendix 'C'HQ CE (P) Dantak Eng No 30003/DTK/19TF/ENQ-05/E3ES dt 21 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>					
3	<p>Modular Insulated Containerized Living Shelter size 6.10 Mtr x 2.90 Mtr x 2.44 Mtr, including all electrical fittings and having 04 x Bedside locker of double locking system and 04 Nos double decker bunk bed with following specifications:-</p> <p>(a) Empty bed including the ladder should weight minimum of 56 Kgs.</p> <p>(b) 18 mm Ply-Two numbers per set.</p> <p>(c) Double coat red oxide painting &amp; black paint over metallic surface (02 coats).</p> <p>(d) Square pipes used for bed to confirm to IS:4923, Make : TATA/ Apollo/Swastik/ Avon/ Hitech.</p> <p><b>Detail technical specifications of containerized shelter, cupboard &amp; bed to be as given in Appendix 'G' (Annexure-I) &amp; layout plan as Appendix 'G' (Annexure-II).</b></p>	Nos	10		
4	<p>Supply of Modular Insulated Containerized Toilet with Bio Digestible Tank for 4.268 Mtr x 2.440 Mtr with clear height of 2.135 Mtr &amp; having 3 bathroom &amp; 3 shower room including all Electrical &amp; Plumbing fittings and Supply &amp; Fabrication of water supply steel staging with 500 Ltr capacity tank including all fittings.</p> <p><b>Detail technical specifications of containerized toilet &amp; water supply steel staging with 500 Ltr water tank to be as given in Appendix 'H' (Annexure-I &amp; II) and Appendix 'J' (Annexure-I &amp; II) respectively.</b></p>	Nos	33		
				<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..13/-



PERFORMANCE BANK GUARANTEE FORMAT

HQ CE (P) Dantak Enq No 30003/DTK/19TF/ENQ-05/E3ES dt 21 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.

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 or on 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 \_\_\_\_\_

*D*

Contd ,15/-

FORMAT OF CERTIFICATE OF ACCEPTANCEHQ CE (P) Dantak Eng No 30003/DTK/19TF/ENQ-05/E3ES dt 21 Apr 2025CERTIFICATE 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-05/E3ES dated 21 Apr 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 \_\_\_\_\_

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

✓

HQ CE (P) Dantak Enq No 30003/DTK/19TF/ENQ-05/E3ES dt 21 Apr 2025

UNDERTAKING CERTIFICATE

"It is certified that the goods / materials given in the Enquiry No 30003/DTK/19TF/Enq-05/E3ES dt 21 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 :



Contd.. 17/-

HQ CE (P) Dantak Enq No 30003/DTK/19TF/ENQ-05/E3ES dt 21 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 :

Contd 18/-

HQ CE (P) Dantak Enq No 30003/DTK/19TF/ENQ-05/E3ES dt 21 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)

Stamp & Signature with date :

Name of the bidder :

Name of firm with address :

Appendix 'G'  
(Annexure - I)

**TECHNICAL SPECIFICATION OF SUPPLY OF MODULAR INSULATED CONTAINERIZED LIVING SHELTER OF SIZE 6.10 MTR X 2.90 MTR WITH CLEAR HEIGHT OF 2.44 MTR.**

1. **SCOPE OF WORK** – The work consists of Manufacture, Supply and Transportation.
2. **DESIGN CRITERIA** –
  - a. Seismic Co-efficient – Zone V
  - b. Snow Load- 1.0 Feet standing on roof.
  - c. Wind load- Equivalent to wind speed of 55 Mtrs/sec as per IS- 875.
  - d. Roof Slope- As per Design:
  - e. External Temperature – (-) 20 degree to + 40 degree.
  - f. Ease of Construction – Ready to ship and use Shelter.
  - g. Design load – As per IS 875.
3. **DESIGN DATA** -
  - a. Length – 6.100 Mtr
  - b. Width – 2.900 Mtr.
  - c. Clear Height – 2.440 Mtr upto false Ceiling.
  - d. Roof Slope – 12 deg (Approx 1:4)
4. **MATERIAL** – All material required for the manufacturing of shelters will be new and will comply with relevant IS as applicable and those given succeeding para. The buildings shall be considered and manufactured as per IS:875 for Structural design. Steel used shall be conforming to IS: 2062/2011 for steel for general structural purposes. The material should provide insulation against extreme cold weather conditions in mountain/High Altitude area at the height of 7000 or more.
5. **Work Man Ship** –
  - a. **Connection** – Welded connection will be provided unless otherwise specified in the drawings. The welded connections will conform to IS 806-1968.
  - b. **Fabrication** – The general provision in section 11 of IS 800 of 1984 will apply to all types of steel being used for fabrications.
  - c. All steel members will be provided with 2 coats of read oxide zinc chromate primer and 2 coats of enamel paint as per color scheme before supply.
6. **Structural Members** – All SHS and RHS sections shall be as per IS 4923 and will be of Make TATA, SAIL, APL apollo, Swastik or equivalent make Structural members shall be as per the schedule of Structure.
7. **Shelter Base/Floor** – To be Manufactured & Supplied as one single base unit.
  - a) **Welded Base Frame-**  
**Base Frame outer Structure** -ISMC 100x50 (Outer bracing at bottom) conforming IS 808 of SEL Make.

01 of 05

**Base frame intermediate cross structure** – ISMC 100x50, ISA 65x65x6 and ISA 40x40x5 conforming IS 808 of SEL Make.

**Containerized shelter Base** – provided with 8 nos of SHS pedestals of Size 100mm x 100mm x 5 mm – 300 mm in height. The pedestal will be bottom plate of 300mm x 300mm x 8mm and shall be fixed/welded with the base frame under all columns of main cabin for proper support.

**The base frame** – provided with 8 nos of 20mm thick lifting hooks welded to the frame.

- b) **Floor Panels** – The panels will be 20mm thick BWR grade plywood on top. The floor panels will be joined using counter sunk nut bolts of required length. The floor top will be provided with 2mm thick aluminum chequered profile fixed with suitable counter sunk screws. Make of plywood- IS mark or equivalent approved make.
  - c) **All shelter outer roof flashing shall be provided using 0.60mm PPGI or RAL 1001 and RAL 9002/9003 as per the color scheme.**
8. **Column (8 Nos)** – The vertical column shall be provided 75x75x3 mm SHS box duly welded with the base frame and roof frame column as per drawings.
9. **Wall panels** – 1 mm G.I corrugated Sheet on outer wall and 12 mm MGO Board for inner wall. MS framework with SHS 40x25x1.5 will be provided for fixing inner wall. All walls and partitions shall be provided with 50 mm thick insulation between both skins. The material in all the wall and partitions panels shall have fire retarding and self-extinguishing properties as per international standards.

The outside GI color will be RAL 6003/6001 and inside color will be **Asian paint Interior plastic paint** as per color scheme.

10. **Shelter Roof Frame** - To be Manufactured & Supplied as one single base unit.

- a) **Welded Roof Frame (as per Drawing)** – Roof frame outer structure will be fabricated with RHS section of Size SHS 40x40x2 (Outer bracing at top). Roof frame top ridge and intermediate sloping members will be fabricated with SHS section of 40x40x2 mm size Roof Frame intermediate cross sloping members will be fabricated with SHS section of Size 40x40x2 mm. The roof frame will be provided with 4 nos. of 20 mm thick lifting hooks welded to the frame.
- b) **False Ceiling** – Will be made of 12 mm MGO Board and 50 mm thick insulation will be provided. The MGO board will be painted with **Asian paint Interior plastic paint**.
- c) **The roof Slope shall be 1:4 (12 Deg. Slope)** – Shall be provided with 1 mm GI corrugated sheet duly primed and painted with sand yellow color (RAL 1001). Gable side will also be covered using 1.20 mm plain sheet for covering Gable wall and roof junction. All joining junctions shall be covered with suitable flashing sheet of 0.6mm thick pre-coated sheets of same color of walls/roof.

11. **Window (04 Nos)** – To be fixed with 1.5 mm thick anodized aluminum- Domal section 2 track sliding window of size 900mm x 900mm. Aluminum sliding shutters with double insulated toughened glass (5mm toughened glass + 10mm air gap using strip + 5mm toughened glass double glass insulated window) along with aluminum 3 mm thick grill of standard pattern. Window will be proper looking arrangement and will be fixed to the wall panels using suitable screws.

**Window Canopy** Rain/Sun shed of 0.60 mm thick PPGI sheet of size 1200 mm x 450mm using angle iron frame of size 35 x35 x3 mm duly painted over with red oxide primer.

- 12. Main Doors (D1) – Size 900 mm x 2100 mm – 01 no.** – 1 mm GI Corrugated sheet door assembly door will be provided. Outer frame shutter will be made up of 2 mm thick MS section. The door internal shutter shall be made of 12 mm MGO Board with insulation. The Internal shutter will be hanged with 3 pcs heavy duty hinges, 2 nos of aluminum Aldrop of 250 mm and aluminum tower bolts of 200 mm size from inside and 2 no's D type handies will be provided in each shutter.

**One Member Canopy** – Rain/Sun shed of 0.60mm thick PPGI sheet of size 1200 mm x 450mm using angle iron frame of size 35 x35 x3 mm duly painted over with red oxide primer.

- 13. Electrical** – All Electrical fittings will be done externally including conceal wiring as per the line diagram provided as per drawings (Annex – II). Each shelter will contain the followings: -
- a) LED Tube lights – 04 feet long 18 watt – Phillips/Havells/Syska/Bajaj/Crompton – 6 Nos.
  - b) 16 AMP switch socket – Make Anchor/Havells/Legrand/GM Modular/Grew White – 10 nos.
  - c) 06 AMP switch socket – Make Anchor/Havells/Legrand/GM Modular/Grew White – 10 nos.
  - d) 32 AMP MCB Box – Make C & S/Havells/Legrand/L&T/Finolex/wipro – 1 no.
  - e) Bulk Head fitting with 9-watt LED Bulb – Make Havells/Crompton/syaka/Wipro/Philips – 1 No.
  - f) Exhaust fan with louver size 150 x 150mm Make Havells/Crompton/Bajaj/Luminous/Usha – 1 No.
  - g) 32AMP on load change over switch in sheet enclosure with side handle (TP) Make Crompton/C&S/Havells/L&T/finolex/Wipro – 1 No.
  - h) Armored Cable 2 core 6 sq. mm aluminum conductor XLPE insulated PVC type ST 2 Sheathed 650/1100 V Grade as per IS 7098 (Part – 1) 1988. Make Plycab/Havells/Crompton/Finolex – 100 mtr per shelter.
  - i) **Fire Extinguisher** – Two numbers of multipurpose dry power ABC Type (Stored pressured) of 1 kg size confirming to BIS specs IS 15683 having discharge time 6-8 sec with 2-3-meter jet length and 35 kg f/Cm<sup>2</sup> as test pressure.

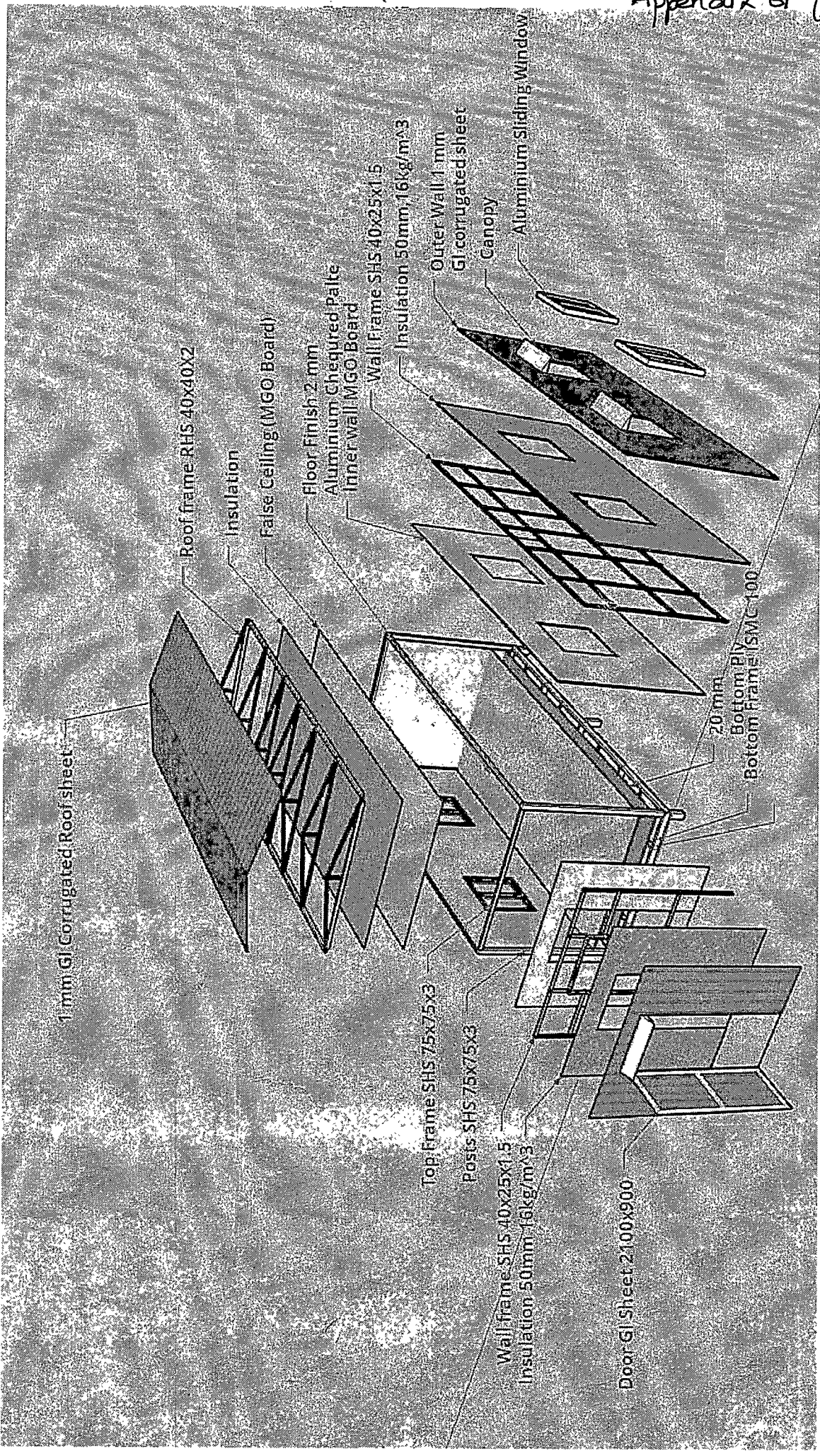
## TECHNICAL SPECIFICATION OF SUPPLY OF STEEL CUPBOARD

1. **Size** – 920mm X 485mm X 1985 mm (including height of legs).
2. **MATERIAL** – shall be made of CRC skin pass sheet steel cupboards of size mentioned above. The base shall be 100mm high from the ground. The base shall be made of two numbers mild steel sheet channel shape with ends covered and welded to bottom of cupboard. Mild steel sheet for channel shall be 1mm thick; the base channel shall be welded at 50mm from each end of 920mm length. The thickness of sheet shall be as under :-
  - a. **Top, sides, bottom, Door shutter & Shelves** – 18 gauge.
  - b. **Rear sheet** – 20 gauge.
  - c. **Shelves** – 18 gauge.
3. **Internal Dimensions** - Two shelves shall be provided at 350mm and 700mm from bottom of cupboard. A hanging rod 60mm below from the top shall be provided which shall be of 20mm dia steel chromium plated conduct pipe of wall thickness 1.25mm. Two sockets shall be provided at the end of hanging rod.
4. **Door Shutters** – Front shutters shall have two leaves. The handles should be pulling handle chromium plated of size 75mm x 150mm. A three-way locking device shall be provided to front shutters. Each leaf of front shutter shall be hinged with three numbers butt hinges 75mm long and shutters shall be side hung. All joints and welding, fixing shall be done with standard workmanship. All exposed steel surfaces shall be given two coats of steel grey enamel paint over a coat of primer after preparation of surfaces. Painting shall be powder coated paint.

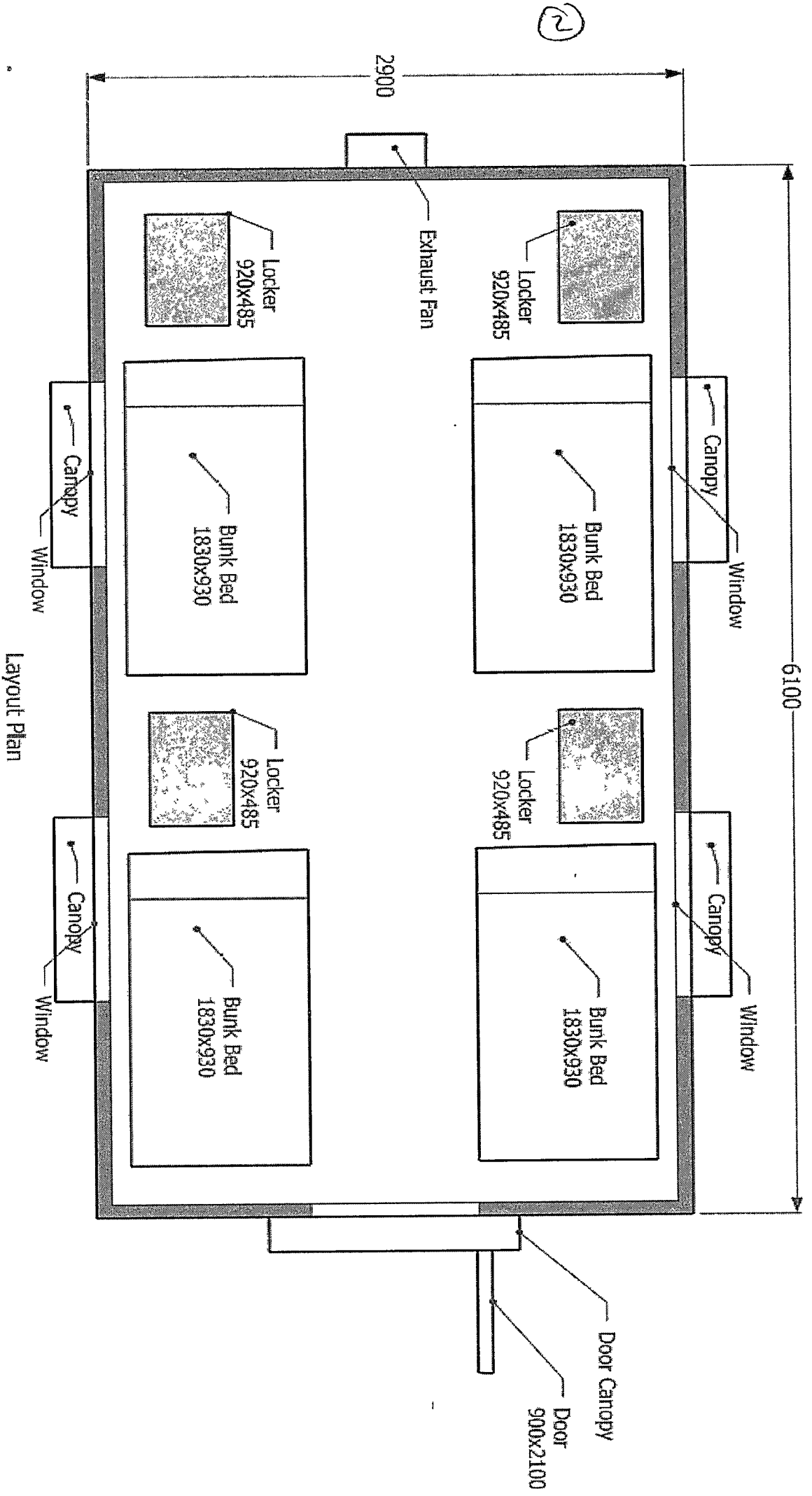
## TECHNICAL SPECIFICATION OF SUPPLY OF DOUBLE DECKER BUNK BED

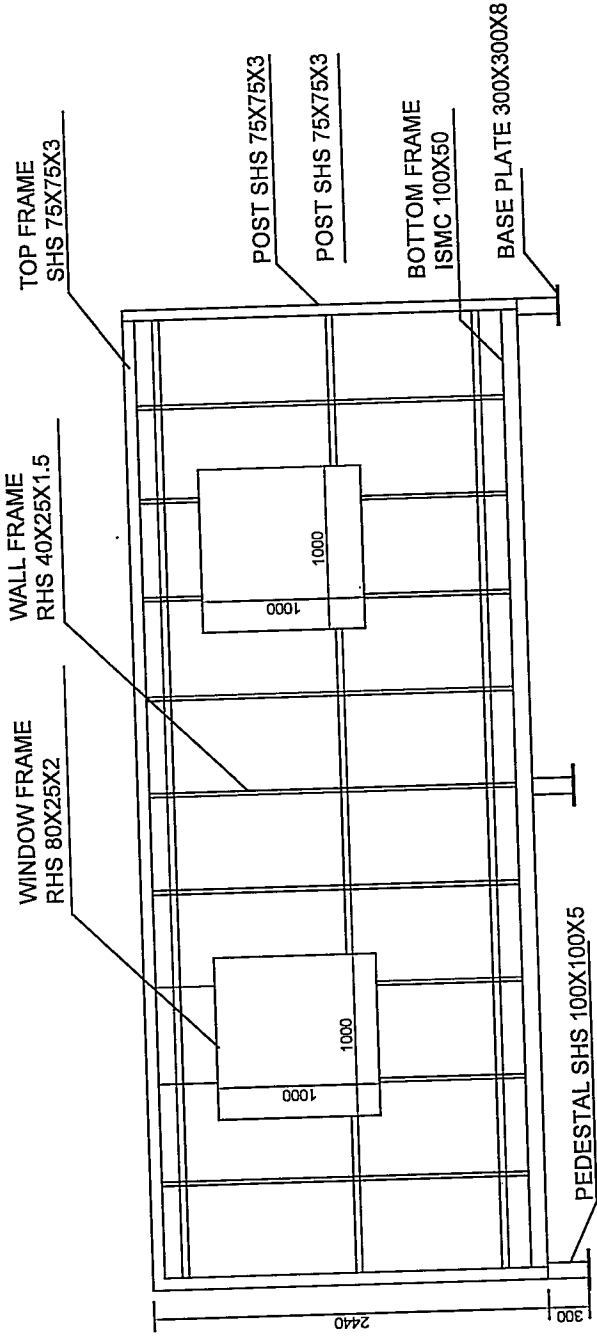
1. **Size – 1830mm (L) X 930mm (W) X 1830 mm (H)**
2. **SCOPE OF WORK** – Fabrication and supply of double decker bunk bed of hollow mild steel square section shall be confirming to IS 4923:1968. Details of Structure as given below: -
  - a. **Head & Leg side Structure** – Made of four vertical legs of height 1830mm mild steel square hollow section outer depth or with 38mm, 3.25mm thick connected with 8 horizontal connectors 930mm long mild steel square hollow section medium grade outer depth & width 25.4mm, 3.25mm thick welded with the vertical legs. The design between the 2 horizontal supports of head leg sided in top 7 bottom shall be made of 2 vertical mild steel square hollow section outer depth & width 25.4mm, 3.25mm thick at the center welded with horizontal pipes. At head side 12mm thick teak ply board 600m long & 350mm wide shall be fixed with 50mm thick high density foam cushioning. It will be fixed with adhesive and will be duly covered with 2mm thick black color resin. The 12mm tick teak ply board shall be fixed between the two vertical mild steel square hollow section medium grade out depth or width adjustable ahoie shall be provided for stability during erection & PVC caps shall be fitted on top of the legs. Welding shall be made to complete circumference of the MS square hollow tubes with proper grinding.
  - b. **Centre Structures** – 4 Horizontal members for connecting head & leg side structures shall be made of 1830mm long RHS of size 25mm x 50mm x 1.2mm thick with MS flat welded on both sides of size 38mm x 125mm x 4mm thick duly bent in concave shape for strip of size 25mm x 3mm thick be welded on these horizontal members in zigzag shape for supporting the cross member. A total of 24 no's 890mm long MS cross members of size 25mm x 50mm x 1.2mm tick 12 no's of each bed shall be provided over MS strip in equal distance for one double bunk.
  - c. **Side Guard** – Side guard of size 900mm length x 300mm height on both side of 25mm Dia MS round tube and interconnected with center member by 2 nos, 12.5mm dia vertical MS bards in equal distance will be welded with upper frame of rectangular tube.
  - d. **Ladder:** Shall be made of 19mm dia MS tube of size 1080mm (L) X 300m (W) with proper welded hooking at upper and lower side members of bed. The ladder shall have 3 steps at equal gaps.
  - e. **Mattress:** Coir sandwich mattress (2 Nos) of size 1800mm x 900mm x 100mm shall be provided with each double bunk with bed mattresses confirming to IS: 13489/200 type 2 and a warranty period of 1 yea. Inner cushioning material rubberized coir sheet medium graded confirming to specification No. 8391-97. The inner cushioning material to be pasted with inner protective blanket and out floral jacquard tapestry cloth cover in dark green shade or blue or pin of size 73x36x4 inch. Green shade No. 299 or railway blue shade N 169 as per IS: 5/1978.
  - f. **Panels:** Shall have not have any joints. It shall be of one piece. The bottom panel and top panel shall be from the same type of vinyl coated fabric of brown colour. The top panel and bottom panel shall be joined in such a way to give a rectangular box shape with stiffening pieces inside the covers to be stitched on 4 corners to get the shape. (Four spare caps shall also be provided along with each bunk).
  - g. **Legs of double decker bunk bed** – to have small base plate to provide steadiness to the structure also proven of cupboard under bunk beds to be made.
  - h. **Painting** – All steel surfaces shall be painted two coat of primer of approved colour power coated paint before dispatch.

05 of 05

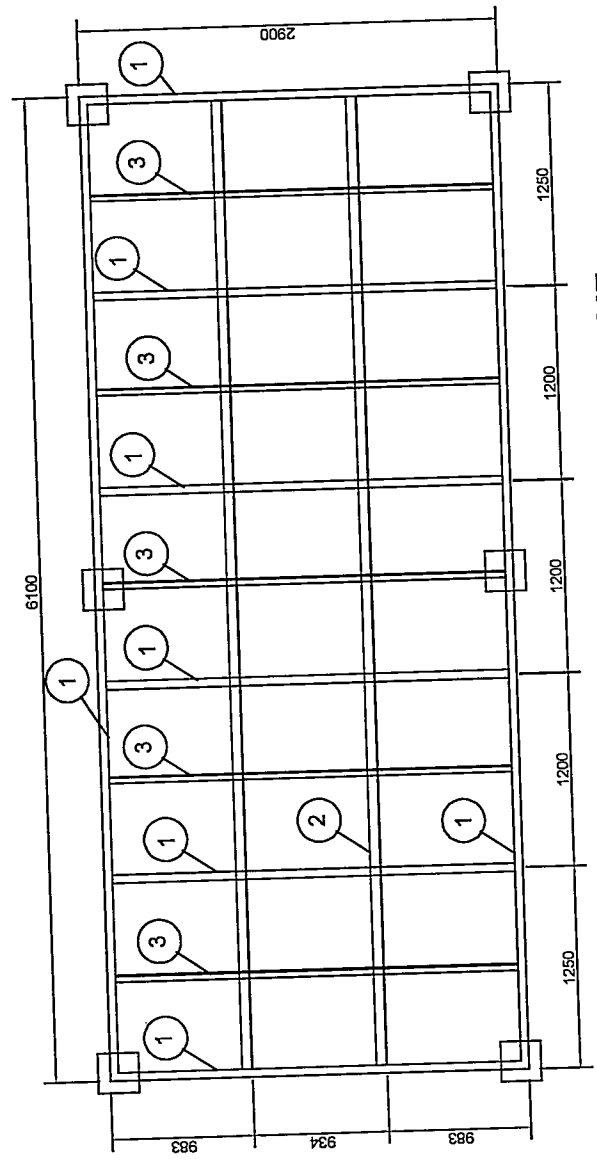


Shelter



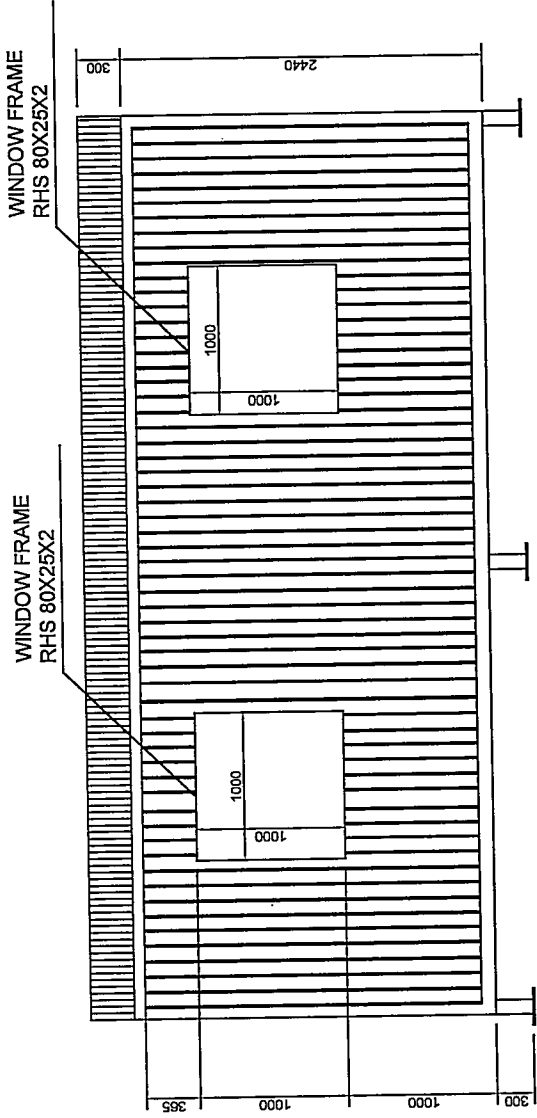


LEFT AND RIGHT WALL FRAMING

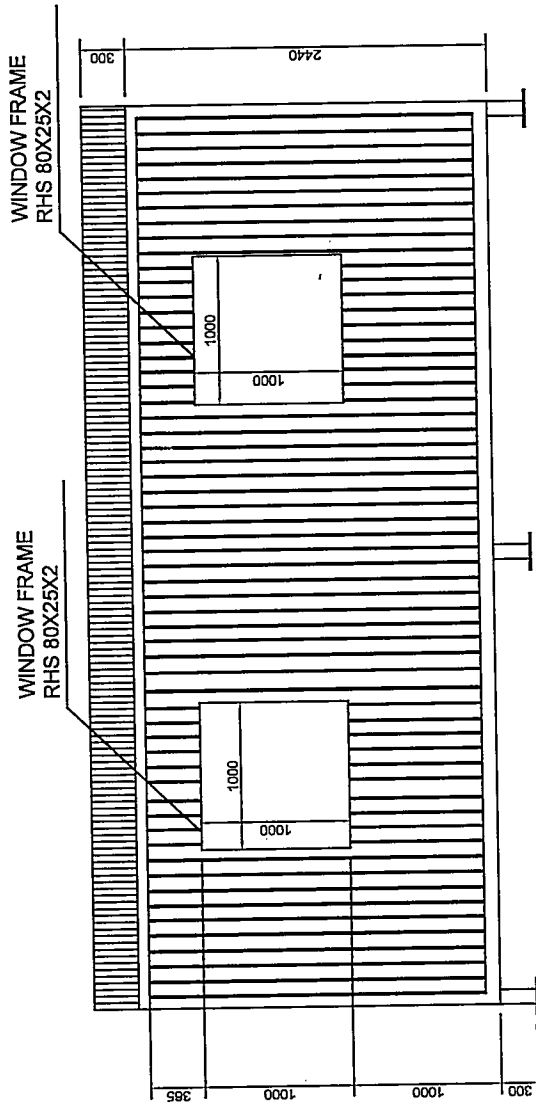


PLAN VIEW OF BOTTOM FRAME

LEGENDS	
MARKS	SECTION
1	ISMC 100X50
2	ISA 65X65X6
3	ISA 40X40X5



LEFT SIDE WALL WITH G.I. CORRUGATED SHEET

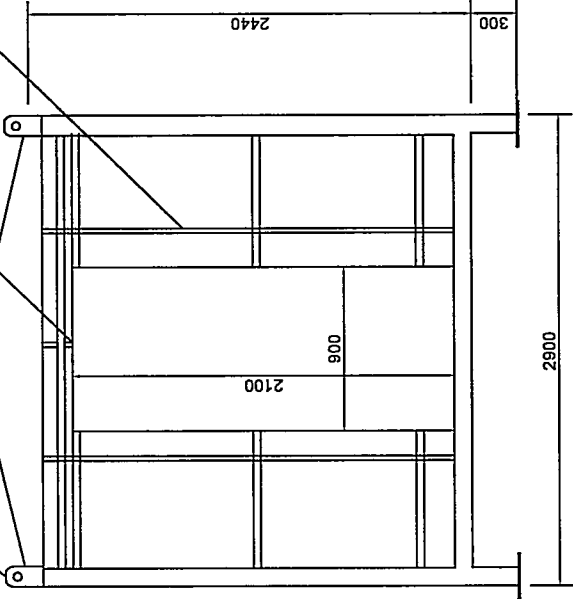


RIGHT SIDE WALL WITH G.I. CORRUGATED SHEET

DOOR FRAME  
RHS 80X25X2

WALL FRAME  
RHS 40X25X1.5

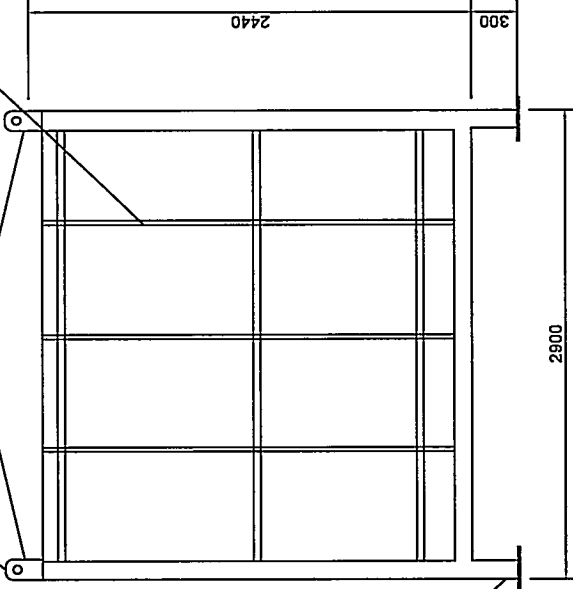
LIFTING HOOK



**FRONT VIEW WITH DOOR FRAMING**

WALL FRAME  
RHS 40X25X1.5

LIFTING HOOK

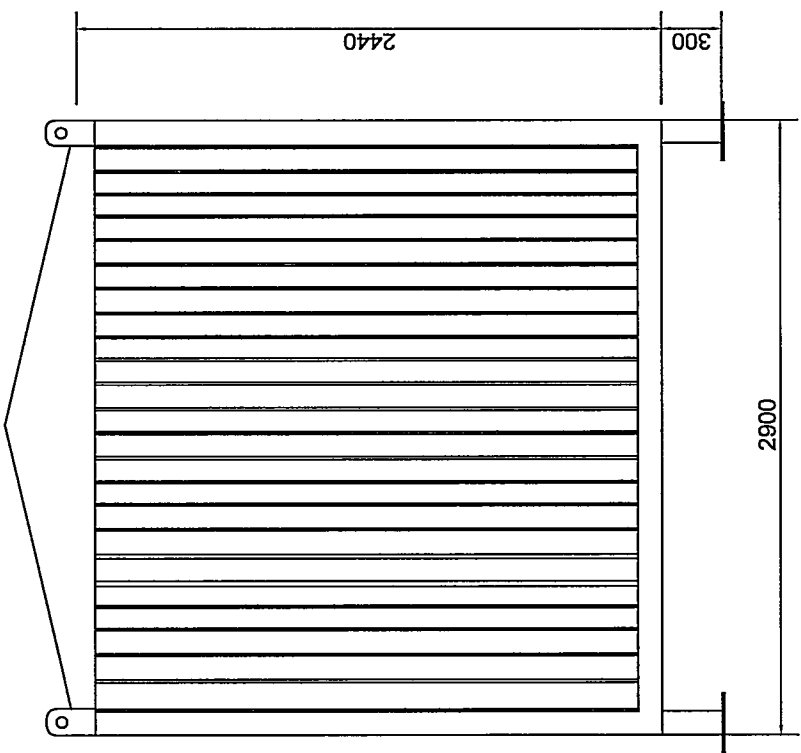


**REAR VIEW FRAMING**

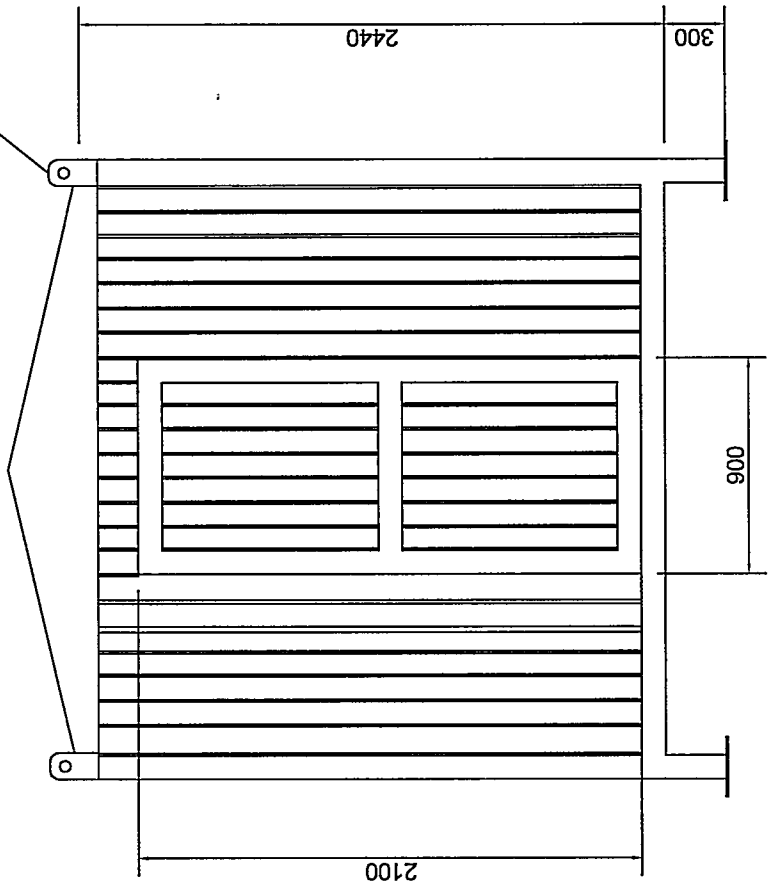
PEDESTAL SHS  
100X100X5

BASE PLATE  
300X300X8

LIFTING HOOK



**REAR VIEW GI SHEETING**

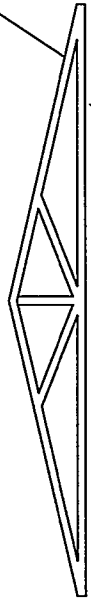


**FRONT VIEW GI SHEETING**

ROOF TRUSS FRAME  
SHS 40X40X2

SLOPE 1:4

SLOPE 1:4



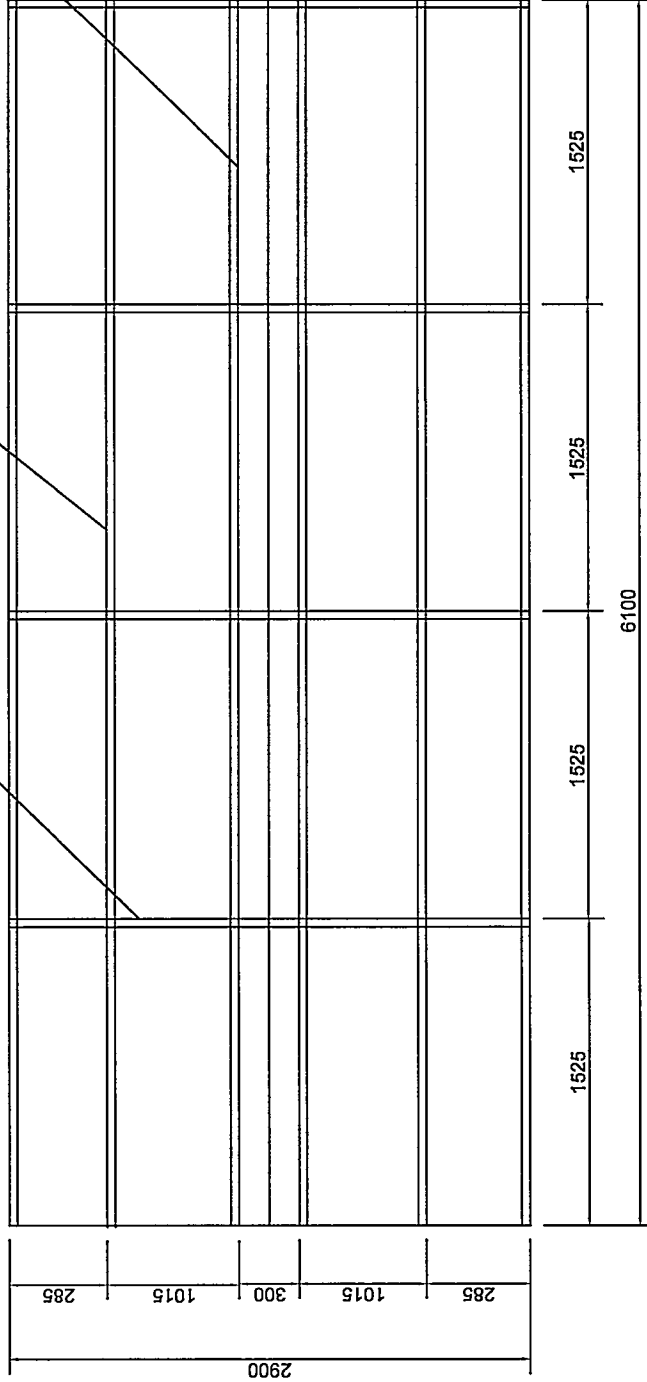
2900

ROOF TRUSS FRAME

ROOF TRUSS FRAME SHS 40X40X2

ROOF TRUSS FRAME SHS 40X40X2

ROOF FRAME  
SHS 40X40X2



2900

1525

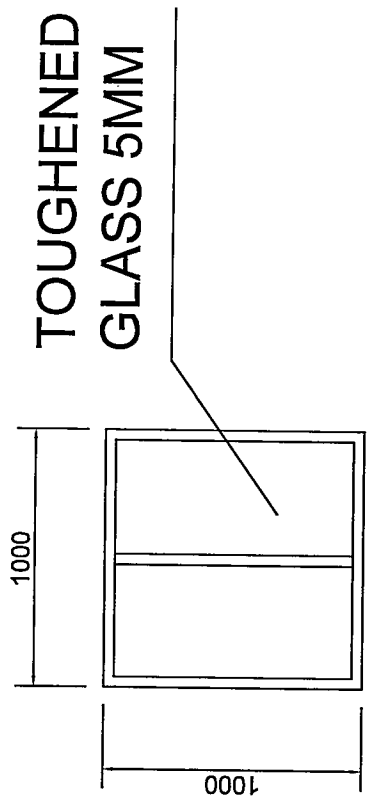
1525

1525

1525

6100

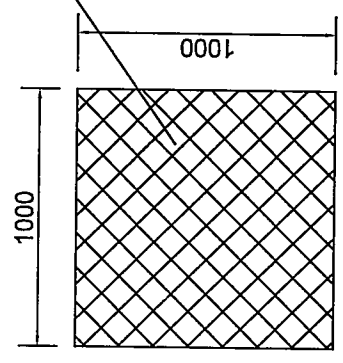
ROOF FRAME LAYOUT



**TOUGHENED  
GLASS 5MM**

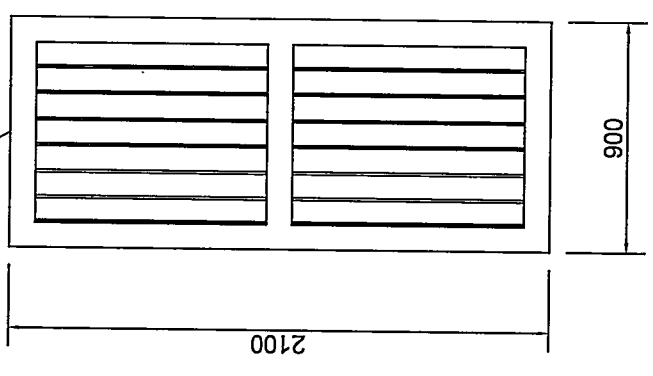
**ALUMINUM SLIDING WINDOW**

**ALUMINUM  
GRILL 3 MM**



**WINDOW GRILL**

**DOOR FRAME  
RHS 80X25X2**



**DOOR**

**TECHNICAL SPECIFICATION OF SUPPLY OF MODULAR INSULATED CONTAINERIZED  
TOILET WITH BIO DIGESTIBLE TANK FOR 4.268 MTR X 2.440 MTR WITH  
CLEAR HEIGHT OF 2.135 MTR.**

1. **SCOPE OF WORK** – The work consists of Manufacture, Supply and Transportation.
2. **DESIGN CRITERIA** –
  - a. Seismic Co-efficient – Zone V
  - b. Snow Load- 1.0 Feet standing on roof.
  - c. Wind load- Equivalent to wind speed of 55 Mtrs/sec as per IS- 875.
  - d. Roof Slope- As per Design.
  - e. External Temperature – (-) 20 degree to + 40 degree.
  - f. Ease of Construction – Ready to ship and use Shelter.
  - g. Design load – As per IS 875.
3. **DESIGN DATA** -
  - a. Length – 4.268 Mtr.
  - b. Width – 2.440 Mtr.
  - c. Clear Height – 2.135 Mtr upto Flase Ceiling.
  - d. Roof Slope – 12 deg (Approx 1:4)
4. **MATERIAL** – All material required for the manufacturing of shelters will be new and will comply with relevant IS as applicable and those given succeeding para. The buildings shall be considered and manufactured as per IS:875 for Structural design. Steel used shall be conforming to IS: 2062/2011 for steel for general structural purposes. The material should provide insulation against extreme cold weather conditions in mountain/High Altitude area at the height of 7000 or more.
5. **WORK MAN SHIP** –
  - a. Connection – Welded connection will be provided unless otherwise specified in the drawings. The welded connections will conform to IS 806-1968.
  - b. Fabrication – The general provision in section 11 of IS 800 of 1984 will apply to all types of steel being used for fabrications.
  - c. All steel members will be provided with 2 coats of read oxide zinc chromate primer and 2 coats of enamel paint as per color scheme before supply.
6. **STRUCTURAL MEMBERS** – All SHS and RHS sections shall be as per IS 4923 and will be of Make TATA, SAIL, APL apollo, Swastik or equivalent make Structural members shall be as per the schedule of Structure. All Hot Rolled Steel Channel and Angle Sections shall be as per - IS 808 and will be SEL make.

7. **TOILET BASE/FLOOR** – To be Manufactured & Supplied as one single base unit.

a) **WELDED BASE FRAME-**

Base Frame outer Structure -ISM 100x50 (Outer bracing at bottom).

**BASE FRAME INTERMEDIATE CROSS STRUCTURE** – ISM 100x50, ISA 65x65x6 and ISA 40x40x5.

**CONTAINERIZED TOILET BASE** – provided with 6 nos of SHS pedestals of Size 100mm x 100mm x 5 mm – 450 mm in height. The pedestal will be bottom plate of 300mm x 300mm x 8mm and shall be fixed/welded with the base frame under all columns of main cabin for proper support.

**THE BASE FRAME** – provided with 4 nos of 20 mm thick lifting hooks welded to the frame.

**BIO DIGESTIBLE TANK MS frame structure** of size 2.75 x 1.25 Mtr will be made with ISA 50x50x6 under the of base frame for Bio digestible tank.

8. **BATHROOM FLOOR** – Shall be made of 3 mm aluminum chequered plate with suitable counter shank screw to be fixed to the base frame.

9. **TOILET OUTER FLASHING SHALL BE PROVIDED USING 0.60MM** PPGI or RAL 1001 and RAL 9002/9003 as per the color scheme.

10. **COLUMN (6 NOS)** – The vertical column shall be provided 75x75x3 mm SHS box duly welded with the base frame and roof frame column as per drawings.

11. **WALL PANELS** – Outer wall will be made of 1 mm G.I corrugated Sheet. Inner wall will be made of 3mm thick ACP waterproof sheets. MS framework will be provided with RHS section of Size RHS 40x25x1.5 for fixing inner walls. The material in all the wall and partitions panels shall have fire retarding and self-extinguishing properties as per international standards. The outside GI sheet color will be RAL 6003/6001. The Ventilator of size 150 x 150mm – 6 Nos will be provided.

12. **ROOF FRAME** - To be Manufactured & Supplied as one single base unit.

a. **WELDED ROOF FRAME (AS PER DRAWING)** – Roof frame outer structure will be fabricated with RHS section of Size RHS 40x40x2 (Outer bracing at top). Roof frame top ridge and intermediate sloping members will be fabricated with RHS section of 40x40x2 mm size Roof Frame intermediate cross sloping members will be fabricated with SHS section of Size 40x40x2 mm. The roof frame will be provided with 4 nos. of 20 mm thick lifting hooks welded to the frame.

b. **FALSE CEILING** – Will be made ACP Panels. 50 mm thick insulation will be provided.

c. **THE ROOF SLOPE SHALL BE 1:4 (12 DEG. SLOPE)** – Shall be provided with 1 mm corrugated sheet duly primed and painted with sand yellow color (RAL 1001). Gable side will also be covered using 1 mm plain sheet for covering Gable wall and roof junction. All joining junctions shall be covered with suitable flashing sheet of 0.6mm thick pre-coated sheets of same color of walls/roof.

13. **DOORS (D1)** – Size 750 mm x 1900 mm – 06 nos. – will be made of 25 mm thick PVC board and will be hanged with 3 pcs heavy duty hinges, 1 nos of aluminum Aldrop of 250 mm for outside and aluminum tower bolts of 150 mm size for inside and 2 no's D type handles will be provided in each shutter.

**DOOR FRAME** – will be made of RHS of size 80 X 25 X 2 duly painted over with red oxide primer.

**ONE MEMBER CANOPY** – Rain/Sun shed of 1 mm GI sheet of size 900 mm x 450 mm using angle iron frame of size 35 x35 x3 mm duly painted over with red oxide primer.

14. **ELECTRICAL** – All Electrical fittings will be done externally including conceal wiring as per the line diagram provided as per drawings (Annex – II). Each shelter will contain the followings: -

- a. LED lights –7 watt – Phillips/Havels/Syska/Bajaj/Crompton – 6 Nos.
- b. 06 AMP switch – Make Anchor/Havells/Legrand/GM Modular/Grew White – 10 nos.
- c. 16 AMP MCB Box – Make C & S/Havells/Legrand/L&T/Finolex/wipro – 1 no.
- d. Bulk Head fitting with 10-watt LED Bulb – Make Havells/Crompton/syaka/Wipro/Philips – 02 No.
- e. 16 AMP on load change over switch in sheet enclosure with side handle (TP) Make Crompton/C&S/Havells/L&T/finolex/Wipro – 1 No.
- f. Armored Cable 2 core 2.5 sq. mm aluminum conductor XLPE insulated PVC type ST 2 Sheathed 650/1100 V Grade as per IS 7098 (Part – 1) 1988. Make Plycab/Havells/Crompton/finolex – 100 mtr per shelter.

15. **PLUMBING:** All internal water pipe lines will be done with  $\frac{3}{4}$  "CPVC Pipes with concealed fittings and all waste pipe line will be done with 4" PVC pipes.

- a. Each toilet to be provided with one set of Stainless steel of 304 Grade Indian Toilet PAN, one angle cocks & one Tap with all fittings.
- b. Each Bathroom to be provided with one shower, one conceals valve, one tap, two angle cocks, one SS towel holder and one SS soap holder with all fittings.
- c. Two SS wash basin, two basin cock, two mirror, two angle cock with all fittings will be provided for each containerized toilet.

16. **BIO DIGESTIBLE TANK:** One 1000-liter capacity bio digestible tank with all fitting will be provided for each containerized toilet with a specification as detailed below: -

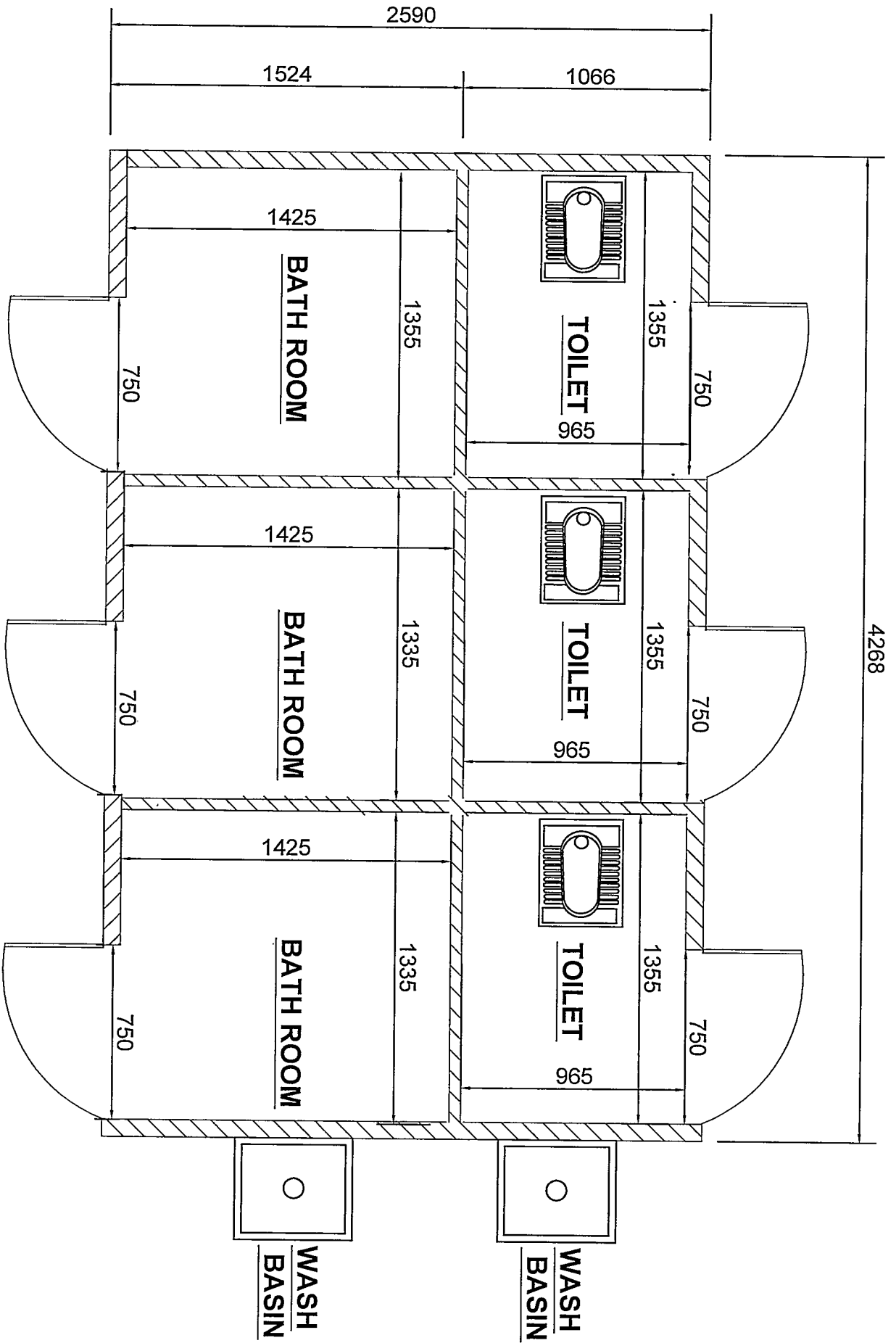
- a. Bio digester unit based on DRDO technology made of fibre reinforced plastic (FRP) having composition and following technical specifications and including necessary pipe and accessories up to 3-meter length
- b. Percentage of fibre glass (glass content in fibre glass should be minimum 30%): -33.33%
- c. Percentage of polyester resin: - 66.67%
- d. Water absorption (as per ASTM):-0.30%
- e. Flammability as per ASTM
- f. Tensile strength: -115 MPA

- g. Specific Gravity at 25°C 1.45
- h. Izod impact strength: -65KJ/M2
- i. Heat deflection/distort temperature: -65deg C
- j. Corrosion resistance (non-corrosive) fitted with
- k. Inlet pipe size rigid PVC: -100mm
- l. Outlet pipe size rigid PVC: -80mm
- m. Gas outlet rigid PVC with Valve: 20mm
- n. Bacteria immobilization PVC mattes (on all partition)

**STANDARD OPERATING PROCEDURE –**

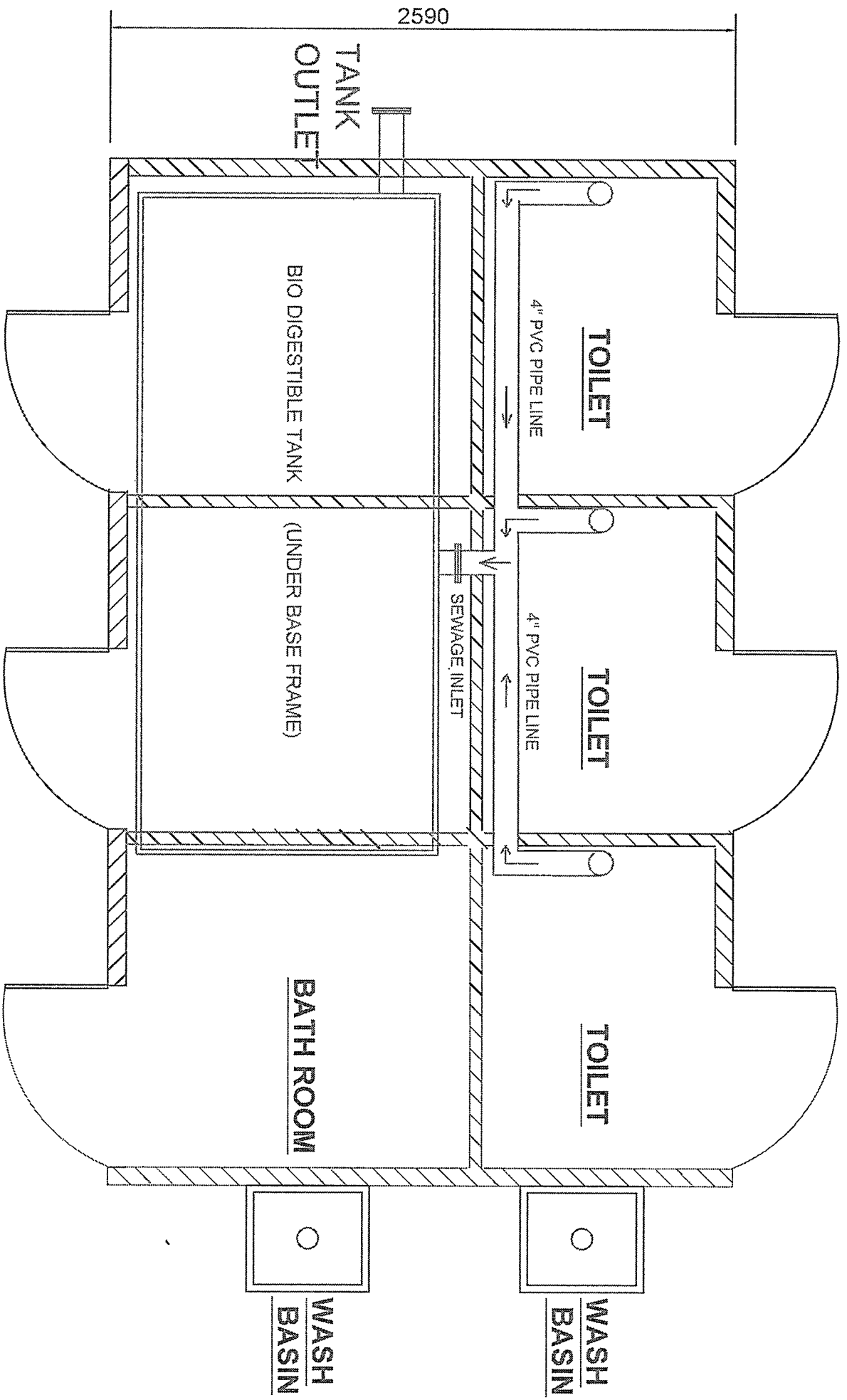
- a. Eco Master for (bio toilets and septic tanks) is formulated with complete anaerobic microbes for frequent sludge reduction, quick odor control and other problems arising from Bio toilets
- b. Bio-toilet is a decomposition mechanized toilet system which decomposes human excretory waste in the digester tank using specific high graded bacteria further converting it into methane gas, Carbon dioxide gas and water
- c. Tank will be supplied with MICROBLE SOLUTION of 5LTR only.
- d. Dosing Method: -
- e. Start- up Dose: Take 1 ltr. of Eco Master mix with 20 liter of water and then dose in 1000-liter septic tank/ Bio-toilet.
- f. Preventive dosage: 100 ml every 10 days per 1000-Litre Septic tank/Bio-toilet

Appendix 'H'  
(Annexure - II)



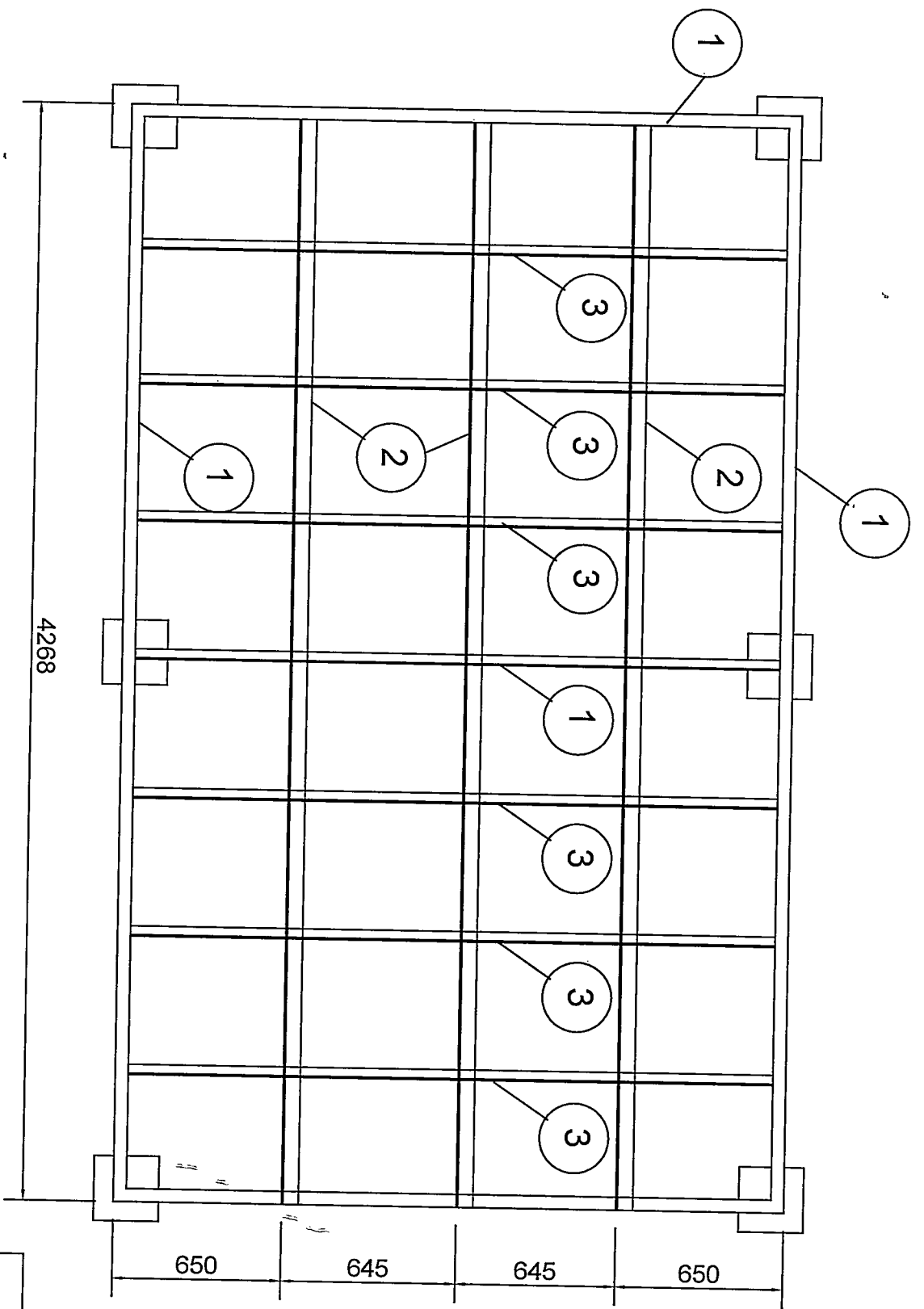
LAYOUT PLAN





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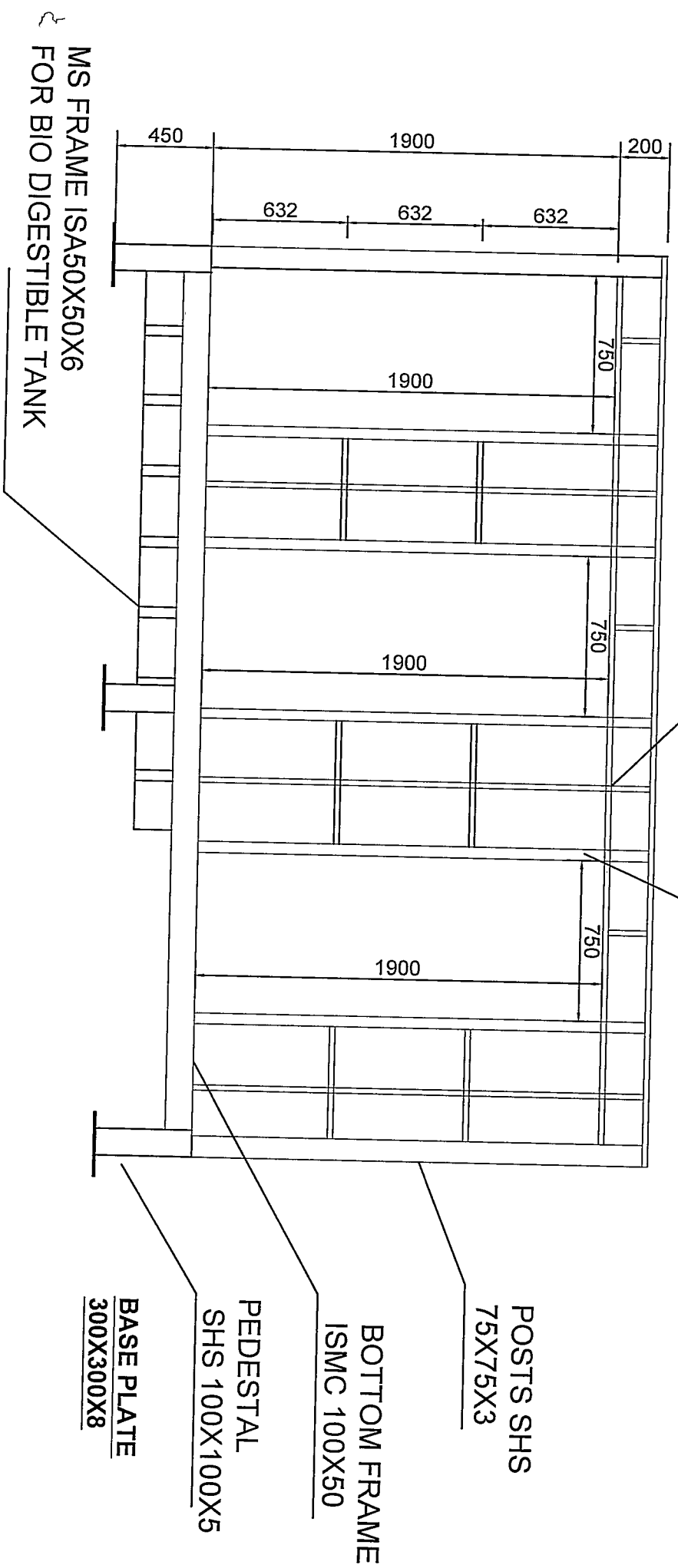
**SEWAGE PIPE OUTLINE**



# PLAN VIEW OF BOTTOM FRAME

LEGENDS	
MARKS	SECTION
1	ISM/C 100X50
2	ISA 65X65X6
3	ISA 40X40X5

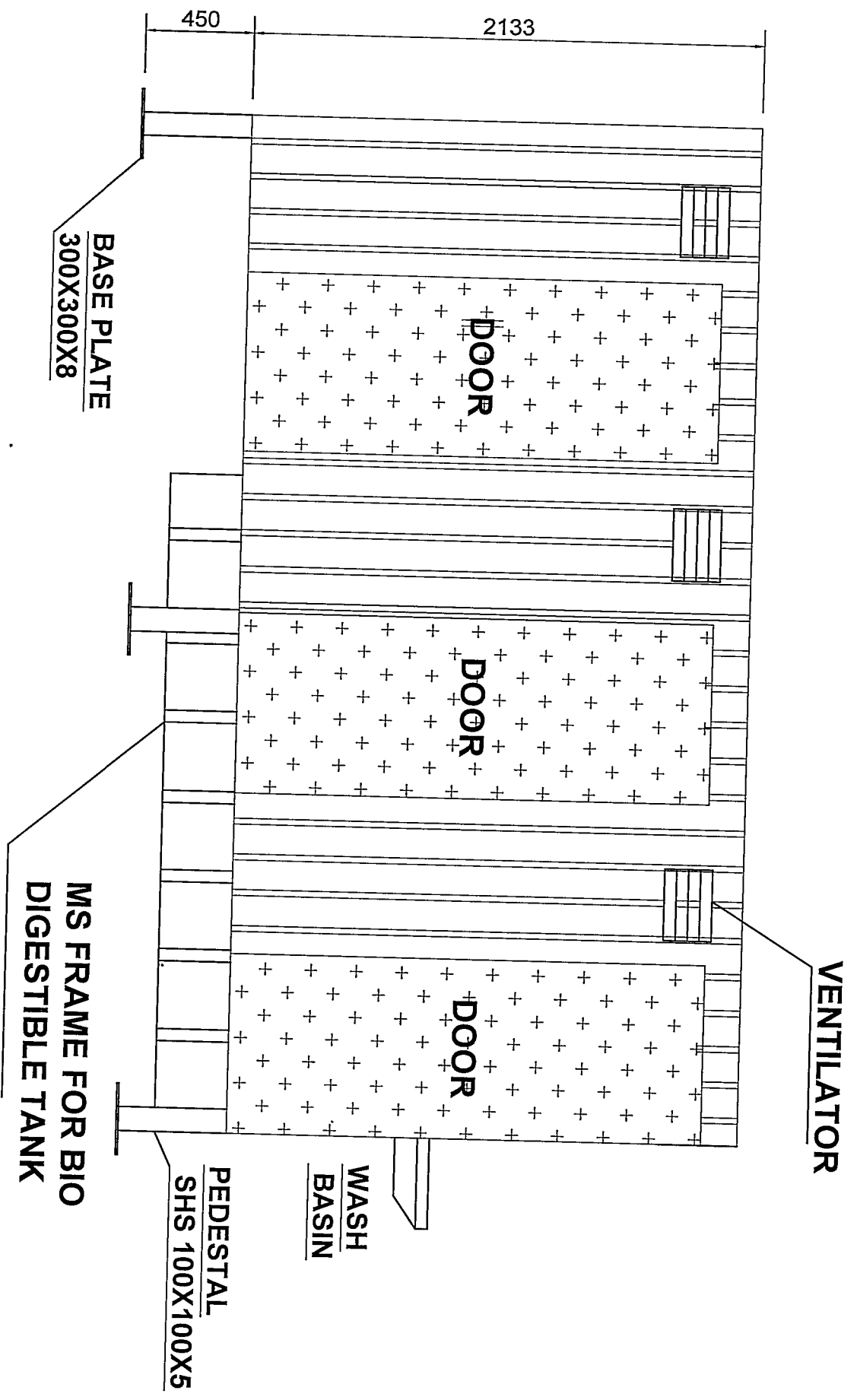
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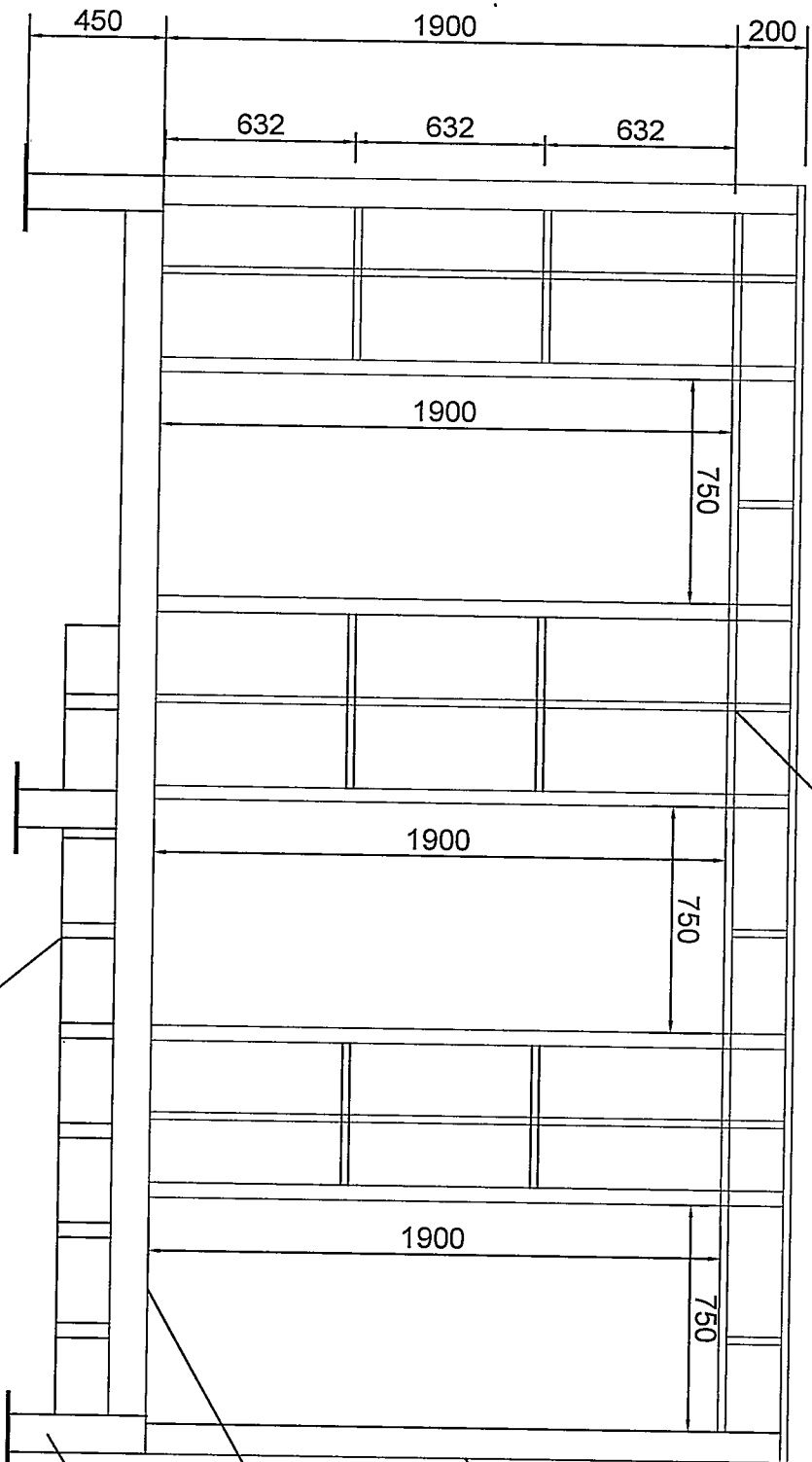
# LEFT WALL FRAMING

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**LEFT WALL OUTER VIEW**



WALL FRAME  
RHS 40X25X1.5



POSTS SHS  
75X75X3

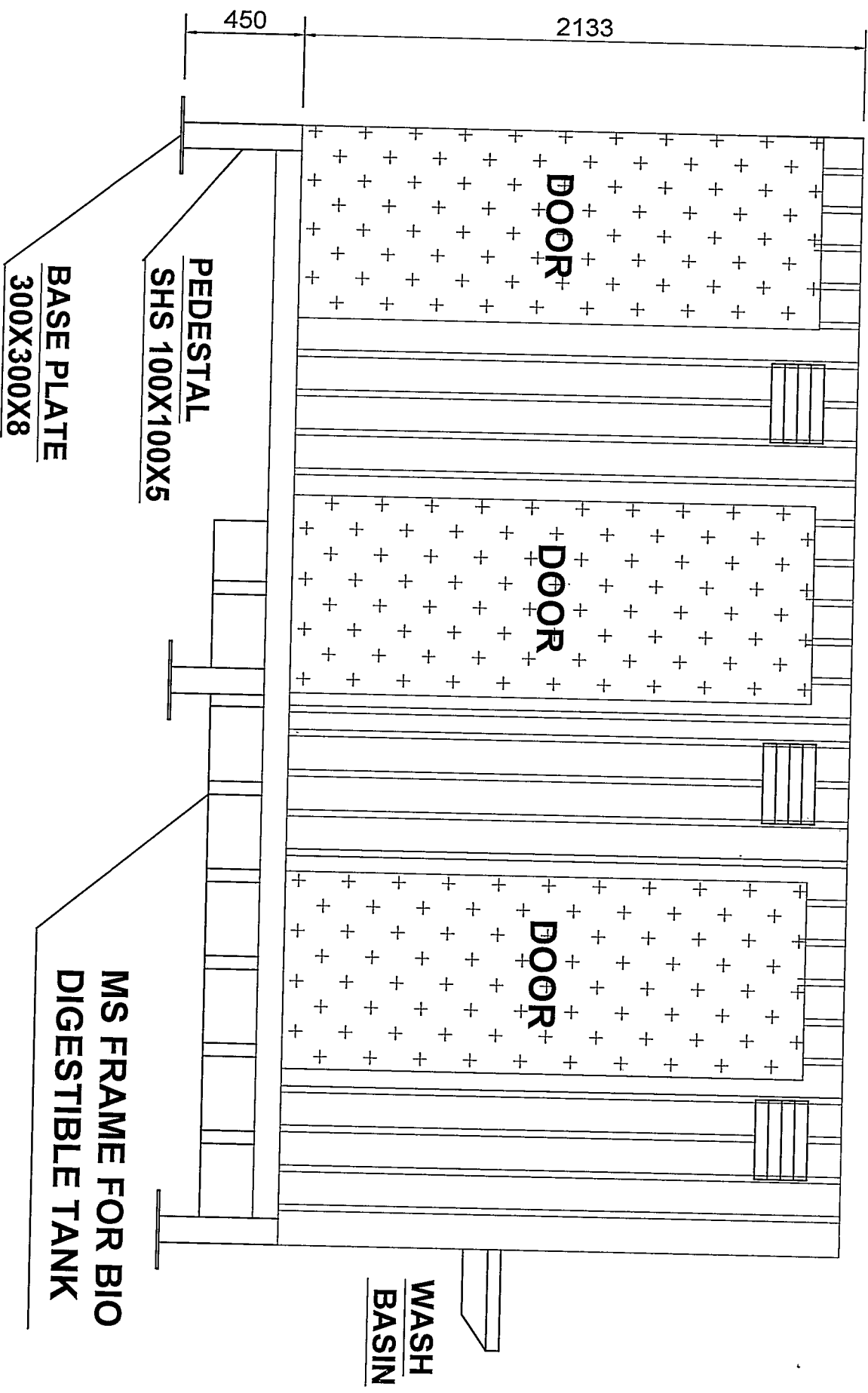
BOTTOM FRAME  
ISMC 100X50

PEDESTAL SHS  
100X100X5

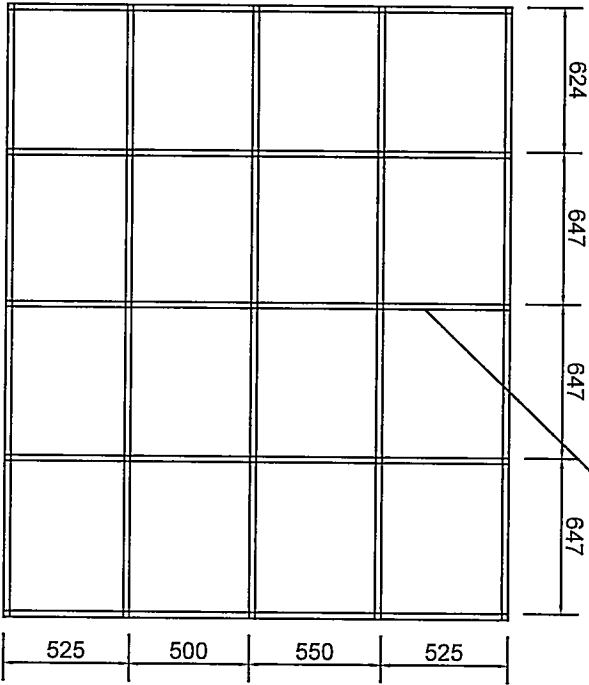
MS FRAME ISA50X50X6  
FOR BIO DIGESTIBLE TANK

# RIGHT WALL FRAMING

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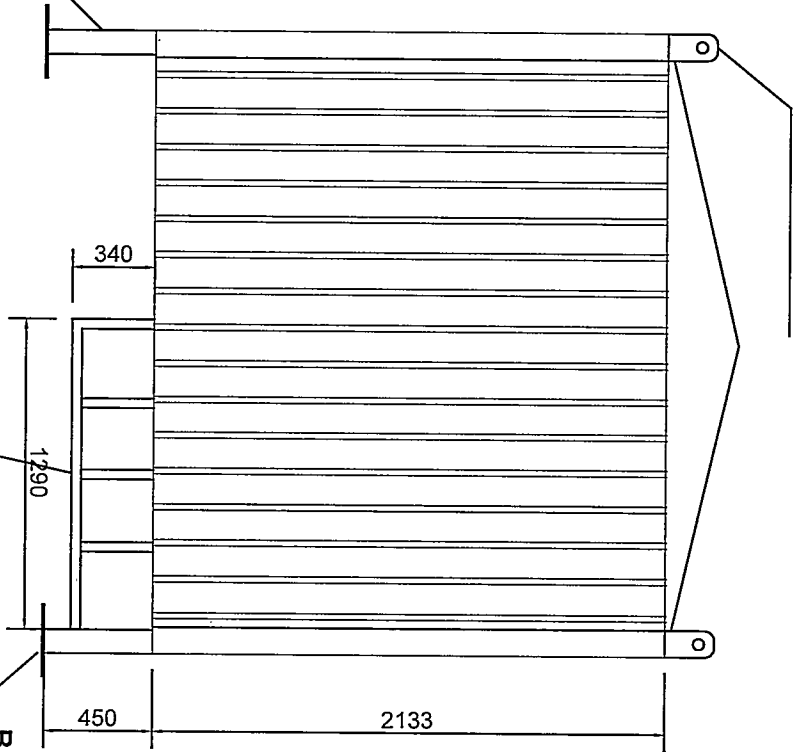
**RIGHT WALL OUTER VIEW**



WALL FRAME  
RHS 40X25X1.5

**FRONT AND REAR  
WALL FRAMING**

PEDESTAL  
SHS 100X100X5

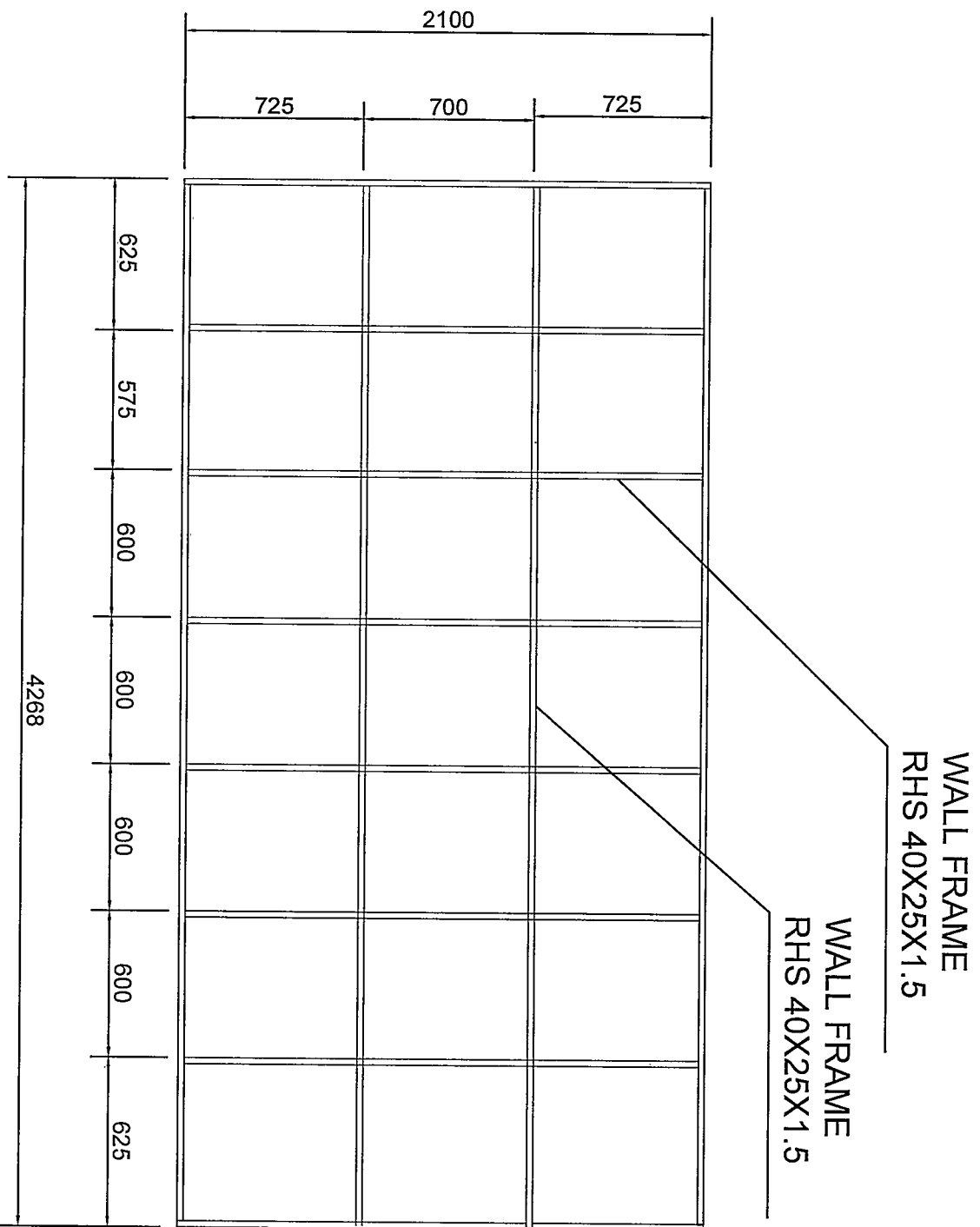


LIFTING HOOK

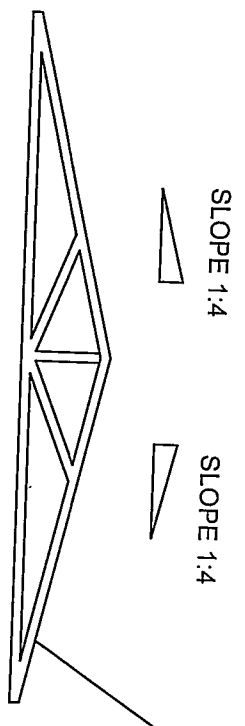
MS FRAME FOR BIO  
DIGESTIBLE TANK

BASE PLATE  
300X300X8

**FRONT AND REAR VIEW**



PARTITION WALL FRAMING



SLOPE 1:4

SLOPE 1:4

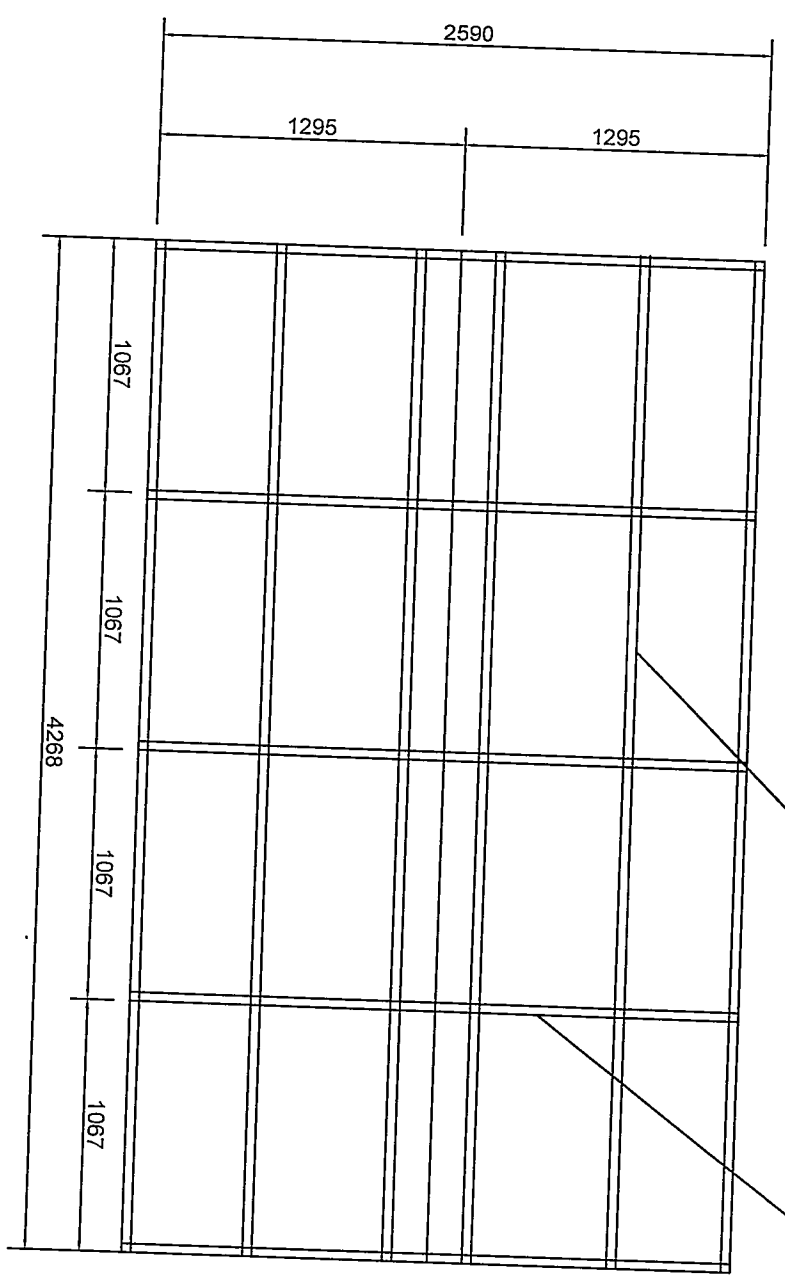


ROOF TRUSS FRAME  
SHS 40X40X2

ROOF TRUSS FRAME

ROOF TRUSS FRAME  
SHS 40X40X2

ROOF FRAME  
SHS 40X40X2



**ROOF FRAME LAYOUT**

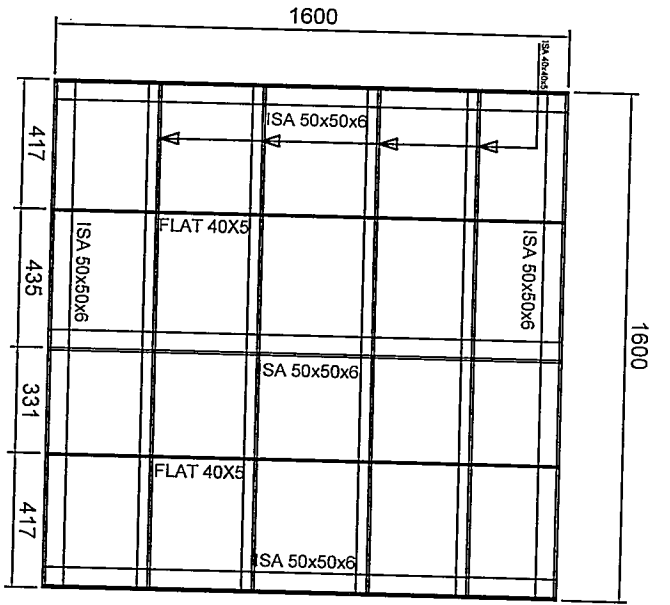
11 of 11

**TECHNICAL SPECIFICATION OF SUPPLY OF WATER SUPPLY STEEL STAGING WITH  
500 LITRE CAPACITY TANK.**

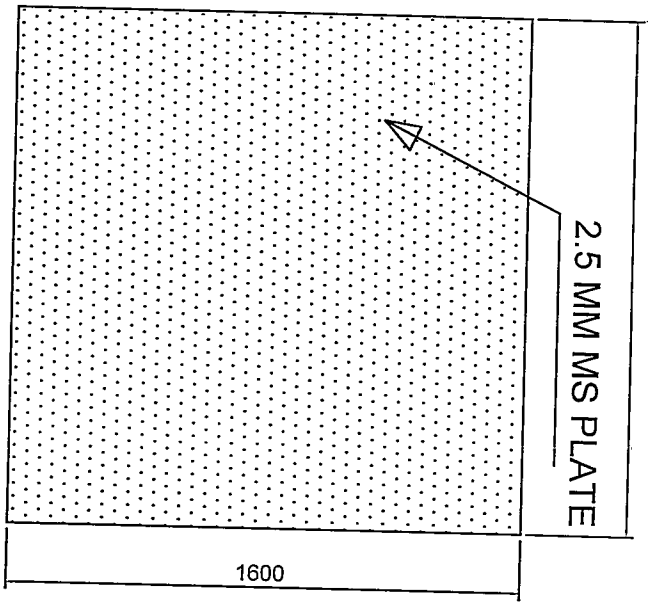
1. **SCOPE OF WORK** – The work consists of Manufacture, Supply and Transportation.
2. **DESIGN CRITERIA** –
  - a. Seismic Co-efficient – Zone V
  - b. Snow Load- 1.0 Feet standing on roof.
  - c. Wind load- Equivalent to wind speed of 55 Mtrs/sec as per IS- 875.
  - d. Roof Slope- As per Design.
  - e. Temperature – (-) 20 degree to + 40 degree.
  - f. Ease of Construction – Ready to ship.
  - g. Design load – As per IS 875.
3. **DESIGN DATA** -
  - a. Platform Length – 1.5 Mtr.
  - b. Platform Width – 1.5 Mtr.
  - c. Platform Height – 3 Mtr.
  - d. Tank Capacity – 500 Litre.
4. **MATERIAL** – All material required for the manufacturing will be new and will comply with relevant IS as applicable and those given succeeding para. The structure shall be considered and manufactured as per IS:875 for Structural design. Steel used shall be conforming to IS: 2062/2011 for steel for general structural purposes. The material should provide insulation against extreme cold weather conditions in mountain/High Altitude area at the height of 7000 or more.
5. **WORK MAN SHIP** –
  - a. Connection – Nut bolt connection will be provided unless otherwise specified in the drawings. The bolts & Nuts shall be conform to IS 1367 latest version. .
  - b. Fabrication – The general provision in section 11 of IS 800 of 1984 will apply to all types of steel being used for fabrications.
  - c. All steel members will be provided with 2 coats of red oxide zinc chromate primer and 2 coats of enamel paint as per color scheme before supply.
6. **STRUCTURAL MEMBERS** –All Hot Rolled Steel Channel and Angle Sections shall be as per - IS 808 and will be ISI & SEL/Super shakti make.
7. **COLUMN (4 NOS)** – The vertical column shall be provided ISA 50x50x6 mm duly welded with the base plate and Platform frame as per drawings.
8. **PLATE FOR PLATFORM** – Will be provided with 2.5mm thick of IS Marked of SAIL/TATA.
9. **BRACINGS** – Will be provided ISA 30x30x5 mm of IS Marked of SEL/SUPER SHAKTI MAKE.

10. **GUSSETE PLATES:** Will be provided 6 MM thick of ISI MARKED of SAIL/TATA MAKE.
11. **BASE PLATE:** Will be provided 250X250X 8 mm thick of ISI MARKED, SAIL/TATA MAKE.
12. **LADDER FRAME:** Will be provided ISA 25X25X4 of ISI MARKED, SEL/SUPER SHAKTI MAKE.
13. **PLATFORM RAILING:** Will be provided ISA 25X25X4 (ISI MARKED, SEL/SUPER SHAKTI MAKE)
14. **WATER TANK:** will be provided a rotational moulded polyethylene water with storage tank of 500 Litre capacity of SBM, ISI Marked, 3 layers, With Lid & UV- stabilized for outdoor use.
15. **PLUMBING:** All external water pipe lines will be done with 1 inch "CPVC Pipes with concealed fittings.

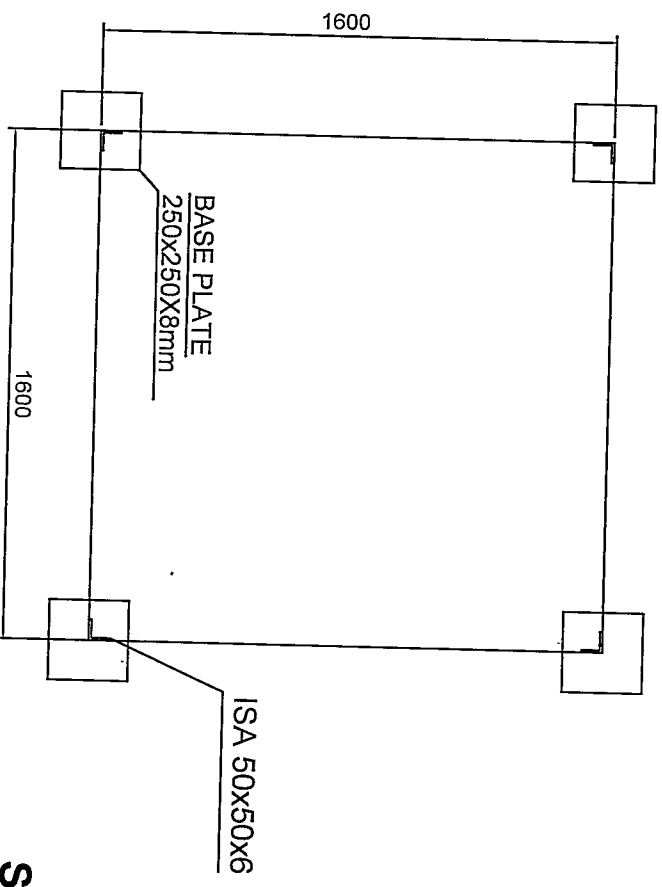
Appendix J  
(Annexure - II)



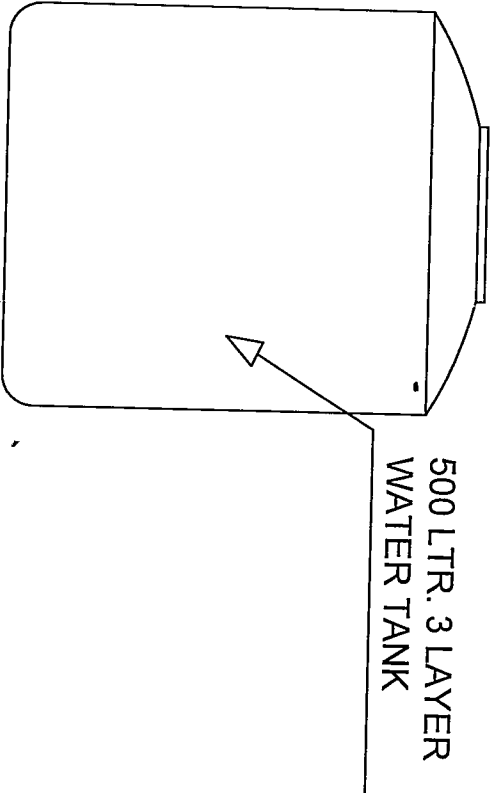
**PLATFORM**



**PLATFORM MS PLATE**



**PLAN VIEW**



**STAGING STRUCTURE FOR  
500 LITER WATER TANK**

500 LTR. 3 LAYER  
WATER TANK

40 of 10

HANDRAILING

POSTS  
ISA 25X25X4

3000

ISA 50x50x6

ISA 30x30x5

ISA 50x50x6

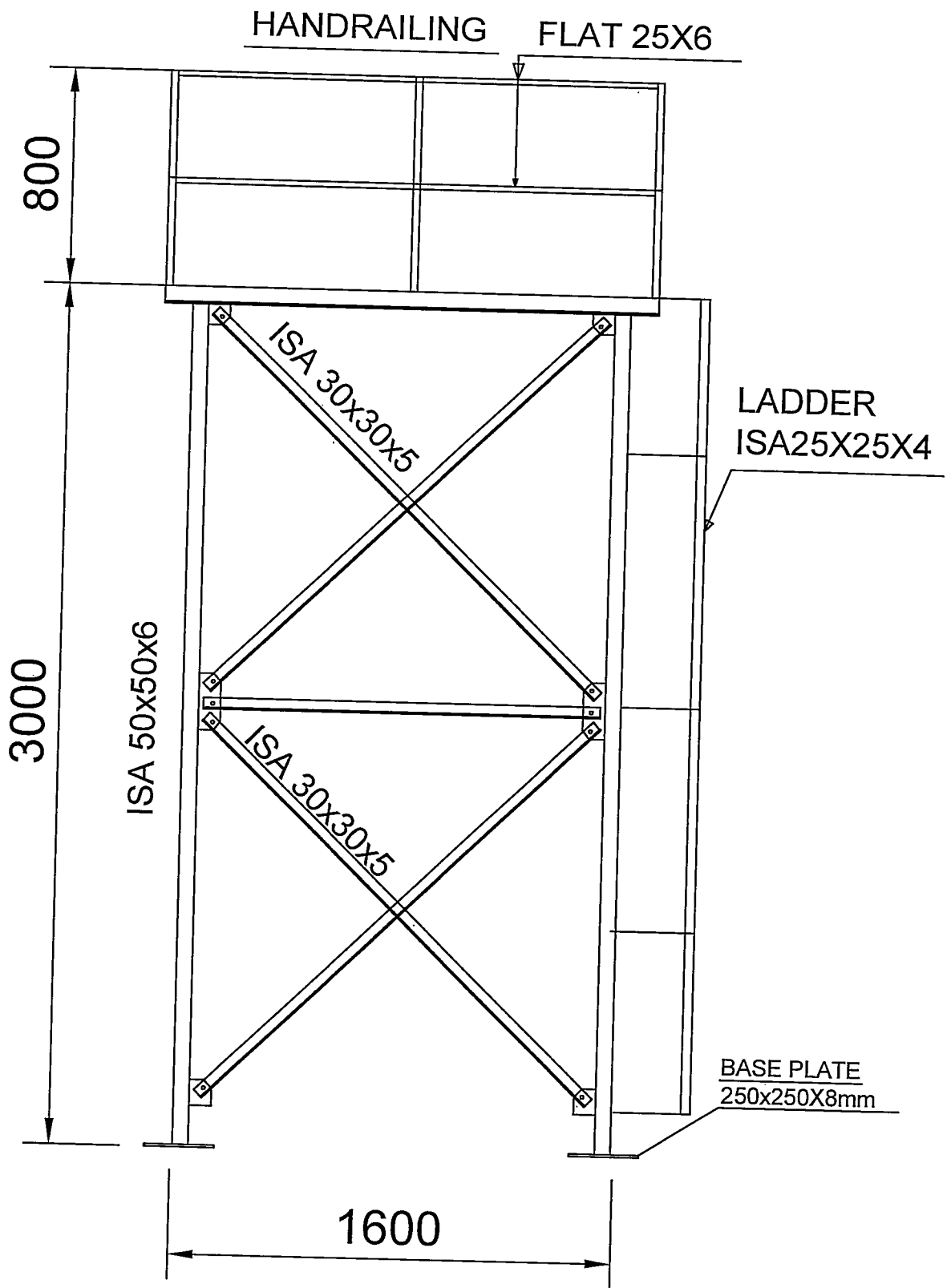
BASE PLATE  
250x250X8mm

1600

FRONT VIEW

STAGING STRUCTURE FOR  
500 LITRE WATER TANK

02 of 04

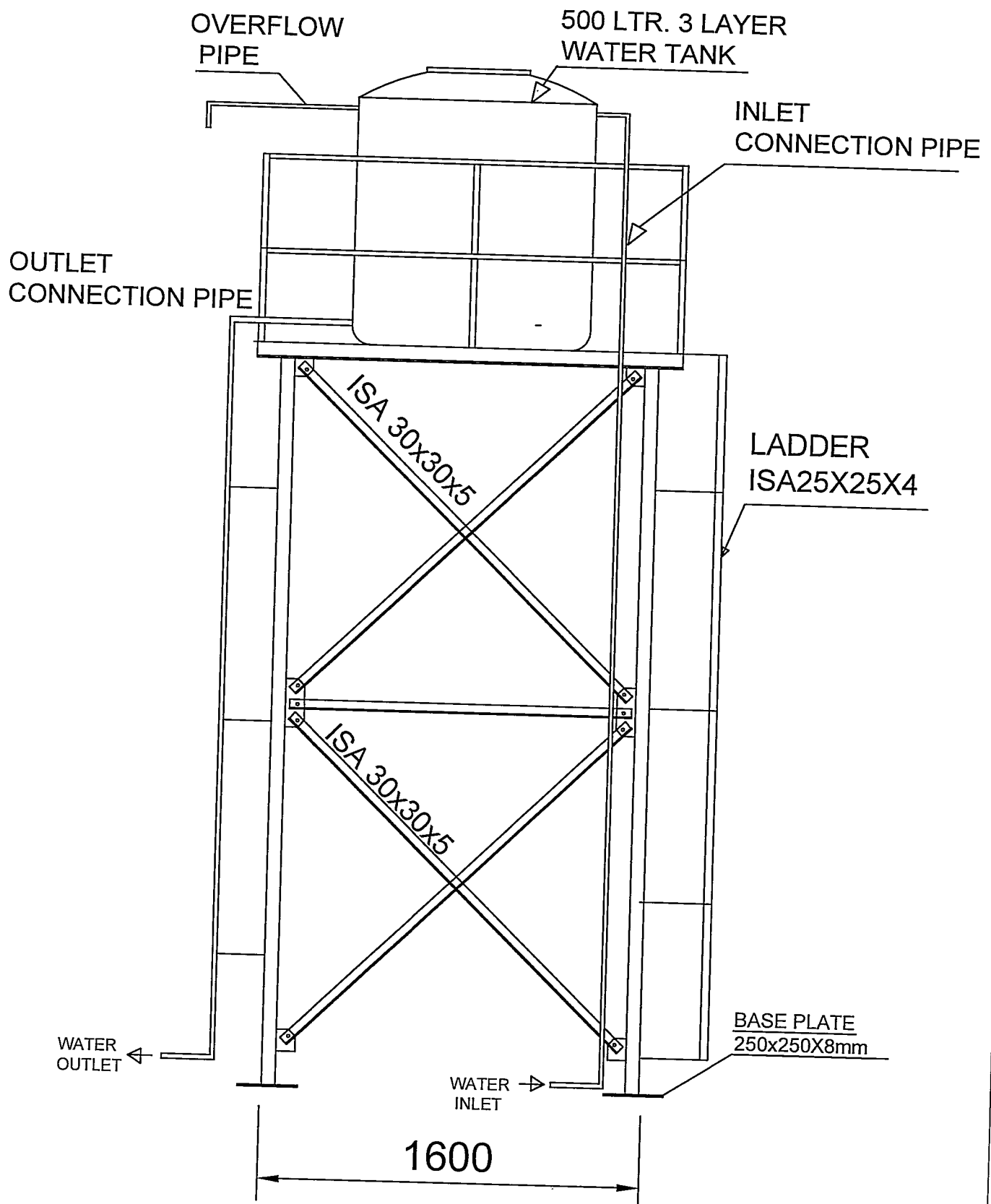


SIDE VIEW

STAGING STRUCTURE FOR  
500 LITER WATER TANK

LTR

03 of 04



**GENERAL WATER PIPE LINE CONNECTION DIAGRAM**

*04 of 04*