



ALIMCO

**Artificial Limbs Manufacturing
Corporation of India**
(A GOVERNMENT OF INDIA UNDERTAKING)
G.T. ROAD, KANPUR-U.P.
209217

TENDER NO.PT/OT/10-/AW
DATE – 18.12.2018

TENDER DOCUMENTS

FOR

**“Design, Fabrication, Supply, Installation & Commissioning of Automatic
Conveyorized Integrated Powder Coating Plant along with Pre-dip treatment Plant (On
Turn Key Basis)”**

Dear Sir,

1. Online tenders are invited for the “Design, Fabrication, Supply, Installation & Commissioning of Automatic Conveyorized Integrated Powder Coating Plant along with Pre-dip treatment Plant (On Turn Key Basis) to the following destination conforming strictly to ALIMCO Specifications enclosed at Annexure-A, against Purchase Orders to be placed on the successful Tenderer within specified period as per Purchase Order. The specific conditions of supply are enclosed at Annexure-D. **Manual bids shall not be accepted.**

Artificial Limbs Manufacturing Corporation of India
G.T. ROAD, Kanpur-209217 (U.P.)

Qty – 01 Set.

2. The specification of “Design, Fabrication, Supply, Installation & Commissioning of Automatic Conveyorized Integrated Powder Coating Plant along with Pre-dip treatment Plant (On Turn Key Basis)” and a tentative quantity likely to be covered by Purchase Order is indicated in the **ANNEXURE- ‘A’**. The whole plant would be required to be supplied as per the delivery schedule specified in our Purchase Order or as indicated in the tender.

Sr. No.	Description	Qty.	Estimated Cost (in Rs.)	EMD (in Rs.)
1.	Design, Fabrication, Supply, Installation & Commissioning of Automatic Conveyorized Integrated Powder Coating Plant along with Pre-dip treatment Plant (On Turn Key Basis)	As per Annexure A	INR 12.9 Cr.	1500000/-

3. Tender documents may be downloaded from ALIMCO website www.alimco.in(for reference only) and CPPP website <https://eprocure.gov.in/eprocure/app> as per the schedule as given in CRITICAL DATE SHEET as under.

CRITICAL DATE SHEET

Published Date	--.--.2019 (10:00 AM)
Bid Document Download Start Date	--.--.2019 (10:00 AM)
Bid Submission Start Date	--.--.2019 (10:00 AM)
Bid Submission End Date	--.--.2019 (02:00 PM)
Bid Opening Date	--.--.2019 (3:30 PM)

Bids shall be submitted online only at CPPP website:<https://eprocure.gov.in/eprocure/app>.

Tenderer/Contractors are advised to follow the instructions provided in the ‘Instructions to the Contractors/Tenderer for the e-submission of the bids online through the Central Public Procurement Portal for e Procurement at <https://eprocure.gov.in/eprocure/app>.

Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.

Part I (‘TC’ BID):

The tenderers are requested to submit the scan copy of following details/documents in their 'TC'-Bid.

Mandatory / Pre-Qualification Criteria):-

- i) Submit, scan copy of DD/Bankers cheque for Rs. 560/- (GST @ 12% Included) in favour of ALIMCO, payable at Kanpur towards cost of Tender documents, if down-loaded from the website of the Corporation/CPPP and original copy of the same should reach to the office of Senior Manager (SP&C), Artificial Limbs Manufacturing Corporation of India, G. T. Road, Kanpur – 209 217 on or before dated --.---.2019 (All SSI units/ MSE Vendors are exempted from Tender Cost).
- ii) **Earnest Money:-**Submit scan copy of Demand Draft or Pay Order or Bankers Cheque for Rs. 1500000/- in favour of **ALIMCO**, payable at **KANPUR** as Earnest Money Deposit along with 'TC' BID and original copy of the same should reach to the office of Senior Manager (SP&C), Artificial Limbs Manufacturing Corporation of India, G. T. Road, Kanpur – 209 217 on or before dated --.---.2019.Exemption from Earnest Money Deposit (EMD) will be allowed to all SSI units/ Micro & small enterprises (MSE) on submission of valid Udyog adhaar memorandum (UAM) against tender for the items/nature of business/ type of services specified there in the UAM.
- iii) The person signing the bid should be duly authorised representative of the firm/company whose signature should be verified and certificate of authority should be submitted. The poser or authorisation or any other document consisting of adequate proof of the ability of the signatory to bind the firm/company should be annexed to the bid.
- iv) Tender documents with proper seal and signature of authorised person on each page of the bid must be submitted.
- v) The Complete specifications, Make/Model/Brand consisting of whole plant & its accessories offered on parameters specified as per Annexure-A, must be mentioned. The details with values for individual specifications/parameters desired must be indicated at Annexure 'B2' to this tender document.
- vi) Copy of GST Registration Certificate, duly signed & stamped.
- vii) The tenderer should have an average annual turnover of not less than **INR 20 Crore** during the last 03 financial years i.e. FY: 2015-16 2016-17 & 2017-18. In order to authenticate, **a certificate regarding average turnover from a qualified Chartered Accountant is required to be furnished along with 'TC-Bid'**.
- viii) Copy of income tax return for the last three Assessment years, i.e. AY-2016-17, 2017-18 & 2018-19, duly signed & stamped.
- ix) Only the OEM is allowed to bid for the whole plant (on turn-key basis) mentioned in the tender document. The Authorisation letter from Principal/ OEM must be enclosed.
- x) The tenderer must have completed similar supply orders/contracts/agreements minimum 01 nos. If order value is 80% of the PO/WO value, 02 nos. if order value is 60% of the PO/WO value & 03 nos. if order value is 30% of the PO/WO value of any Govt./PSU/Govt. Aided Organization/Institution/Private Organization in last 05 years, or as specified at Annexure-A, ending -- 2018. Please enclose copy of such supply orders/contracts/agreements along with completion certificate/ proof of the same issued by the client.
- xi) Undertaking stating that "The delivery, installation and commissioning of the plant (on turn Key Basis) must be completed within the stipulated period as indicated in the tender or specified at Annexure-A, from the date of placement of PO/work contract" **in the format enclosed at Appendix-1.**
- xii) The tenderer should submit an undertaking that his/her firm has not been debarred/blacklisted/terminated/banned to participate in the tender by any Govt. Institution, PSUs, and State Govt. or Central Govt. Deptt. **in the format enclosed at Appendix-2.**
- xiii) The tenderer should submit an undertaking that his/her Offer is valid for acceptance for 90 days from the date of opening of TC Bids **in the format enclosed at Appendix-3.**
- xiv) Undertaking to the effect that all the tender terms & conditions are acceptable to the bidder **in the format enclosed at Appendix-4.**

- xv) Undertaking to the effect that a Performance Bank Guarantee (PBG) of 10% of the order value, valid for warranty/defect liability period & claim submission date within 3 months from the date of expiry of Bank Guaranty period will be submitted after the commissioning of the plant (on turn-key basis). The security deposit (including EMD) shall be released on receipt of 10% PBG valid for warranty period **in the format enclosed at Appendix-5.**
- xvi) Undertaking to the effect that a Advance Bank Guarantee (BG) of 110% of the advance value subject to maximum up to 100 Lakhs, valid for successful installation, commissioning & Prove out of whole plant & it's accessories & can be submitted within 1 months from the date of releasing the PO/Work Order of the plant (on turn-key basis) **in the format enclosed at Appendix-6.** The recovery of the advance will be done as adjustment @25% of advance value from the running bill. The Advance Bank Guarantee (BG) for advance shall only be released after successful installation, commissioning & Prove-out of whole plant & it's accessories and full recovery of the advance.
- xvii) The tenderer should submit an undertaking that his/her firm shall provide security deposit within 14 days of releasing PO **in the format enclosed at Appendix-7.**
- xviii) The tenderer should submit an undertaking that his/her firm shall provide the complete training regarding operation & maintenance of the Whole Plant (On turn-key Basis) & its accessories **in the format enclosed at Appendix-8.**
- xix) The tenderer should submit an undertaking for unconditional acceptance to replace the supplies if rejected at the destination **in the format enclosed at Appendix-9.**
- xx) Undertaking to be submitted by the tenderer that "payment terms mentioned at Para No-15 of this tender document (i.e. Terms of Payment) is acceptable" **in the format enclosed at Appendix-10.**
- xxi) The tenderer should submit an undertaking that his firm shall attach the proof regarding prior Experience of supplying such systems to manufacturers of M.S Pipe/ Tubular Structure Products/components, as specified in the Annexure-A of the Tender Document i.e. (Vendor must have done such installation at least 03 nos. such plants during last 05 years Vendor to provide valid details of such customer along with contact number for verification) **in the format enclosed at Appendix-11.**
- xxii) Tenderers are required to submit "**Tender Acceptance Letter**" in the format enclosed at **Appendix-12.**
- xxiii) Tenderers are required to submit "**Undertaking**" regarding availment of GST and matching of Input credit **in the format enclosed at Appendix-13.**
- xxiv) Tenderers are required to submit "**Undertaking**" regarding the material deliver in multi-stages and the payment of the same will be done on the basis of completion of stage wise work as given **in the format enclosed in Appendix-14.**
- xxv) Undertaking to be submitted by the tendered that "They should undertake that they will execute AMC for the period of 03 years after the expiry of warranty/defect liability period as per the requirement of ALIMCO and the AMC shall not exceed 0.5%, 1.5% & 2.5% of basic value of the machine/plant during 3rd, 4th & 5th year respectively from the date of successful installation & commissioning of the machine/plant/item/equipment" **in the format enclosed at Appendix-15.**
- xxvi) Tenderers are required to submit duly filled **Annexure 'B1 & B2'**, enclosed herewith.
- xxvii) An affidavit to be sought from L1 party regarding:
 - a) The party has not been debarred/blacklisted/terminated/banned by any Govt. Institution, PSUs, and State Govt. or Central Govt. Deptt.
 - b) The party has not supplied the similar machine /system at a cost lower than the cost offered to ALIMCO to any government / semi-government / reputed private organisation in India.

(All these documents / details / conformation should necessarily be submitted specifically & in the same order.)

NOTE:

- i) Price bids of only those tenderers, who are assessed as technically qualified by the Corporation shall be opened & only Such parties shall be communicated regarding date & time of Price Bid opening requesting them to attend the Tender opening, if interested.

Part II ('P'BID): shall consist of complete price details as under: -

P Bid offer shall be uploaded online. Rate should be quoted in Rupee per unit **as per format at Annexure-C (P-bid)**. Rate should be quoted for FREE DELIVERY at destination as indicated in Para 1 & should be without any price escalation clause. The following data shall be invariably furnished:-

- a) GSTIN No., HSN Code, GST in % &Rs.
- b) Packing & Forwarding charges, Installation charges, if any, in % &Rs.
- c) Freight charges in % &Rs. at FOR ALIMCO, HQ, Kanpur (destination as indicated in para-1).
- d) Charges for installation and commissioning (if any) may please be clearly indicated. Alternatively, rates quoted shall be considered to be inclusive of installation & commissioning charges.

THIS BREAKUP IS ESSENTIAL TO ENABLE PLACEMENT OF THE PURCHASE ORDERS AND PAYMENTS BY H.Q./AAPC's AS THE CASE MAY BE AND KEEPING IN VIEW APPLICABILITY OF GST BY THE GOVERNMENT w.e.f. 1st July 2017

The L1 offer will be decided based on landed cost at ALIMCO (destination as indicated in para-1).

NOTE: ALIMCO GST Registration details are given below.

	H.Q, Kanpur	AAPC, Jabalpur	AAPC, Bangalore	AAPC, Bhubaneswar	AAPC Ujjain
GST Regd. No.	09AABCA8899F1Z6				

Variation Clause: - Any change (Increase / Decrease) in Govt. Duties / Levies / Taxes GST as amended made applicable by Govt. (State / Central) from time to time at the rate as will be applicable over & above the basic price/rate quoted by parties in their offer during the currency of Purchase Order/Contract shall be considered by the Corporation for amendment on party's request alongwith necessary documents in support of their claim/amendment.

4. **SITE INSPECTION** : The tenderers shall be deemed to have inspected and examined the site and its Surrounding and information available in connection therewith and to have satisfied himself, so far as is practicable, before submitting his tender, to the extent and nature of work and materials necessary for completion of works, availability of such materials, the means of access to the site and the accommodation that he may require and, in general, shall be deemed to have obtained all necessary information.
5. All the bids so received against the tender shall be scrutinized and assessed for the Plant suitability offered by you. Offers of only those tenderers whose bids are found conforming to laid-down specifications and qualifying our requirements shall be considered. Quotes with any variation in the specifications affecting functions of the Plant as specified are liable for outright rejection. Tenderers are therefore requested not to quote for nonconforming specifications Plants as an alternative one or two otherwise, for which tenders are liable for rejection. Each value as specified is to be mentioned in tenders and words "as specified" or "same" shall not be considered valid at all.
6. No change in specifications by tenderers shall be permissible after submission of Technical Bids.
7. **EARNEST MONEY DEPOSIT& SECURITY DEPOSIT:**

All the Tenderer must submit Rs. 1500000/- by **Demand Draft** or **Pay Order** or **Bankers Cheque** only in favour of **ALIMCO**, payable at **KANPUR** as **Earnest Money Deposit (EMD)** along with 'TC' BID. No other mode is acceptable. The EMD shall be released within 30 days of finalization of the purchase orders to the unsuccessful tenderers. No interest will be payable on the EMD.

All SSI units / Micro & Small Enterprises (MSE) will be issued Tender Documents free of cost & Exemption to submit Earnest Money Deposit (EMD) on submission of valid Udyog Aadhar Memorandum (UAM) against Tender for the items/nature of business/ type of services specified therein in the UAM. The amount of Earnest Money should be furnished in the form of Demand Draft or Pay Order or Bankers

Cheque only. No interest shall be claimed/ payable on the bid- security/ EMD furnished to the Corporation.

The earnest money shall be forfeited if the tenderer withdraws his tender before the period of validity of the tender (i.e. minimum 90 days) and / or tenderers fails to furnish requisite security deposit within the specified period after the award of order/contract wherever applicable.

Subsequent to placement of Order / Contract, the successful tenderer will be required to deposit a sum equal to 10% of the Order/ Contract value subject to a maximum of Rs. 100.00 lakhs, within 14 days from the date of purchase order as **Security Deposit (SD)** in the form of 'Demand Draft' or 'Pay Order' or 'Bankers Cheque 'or 'Irrevocable Bank Guarantee' from any of Nationalized Bank in the prescribed format enclosed at **Annexure-E'** only in favour of **ALIMCO** payable at **Kanpur** for due discharge of the Purchase Order released on the basis of this tender. This will be retained till the expiry of warranty Period for the plant supplied. No interest will be payable on the Security Deposit. The earnest money already submitted with the tender may be adjusted towards Security Deposit. The Earnest Money deposit of the successful bidder will be returned / refundable only on receipt of valid & acceptable Security deposit. The successful vendor may also give their consent/request for retaining/ converting their EMD into part of Security deposit & deposit the balance amount towards SD.

The Security deposit may be refunded/returned on submission of irrevocable, unconditional & acceptable Bank guarantee as performance guarantee by the party to cover its obligations to offer free of cost replacement under the warranty period from any nationalized bank. The corporation may also consider, at its discretion, acceptance of Corporate Guarantee given by Foreign Principal In lieu of Bank Guarantee in case of imported goods.

Security deposit shall be furnished within the time limit provided for in the Contract. Non submission of Security deposit within the time specified for the purpose shall amount to the breach of essential conditions of the Contract and shall render the Contract liable to cancellation & the contractor shall be liable for all consequence thereof or caused there by.

After Satisfactory installation and commissioning of the plant and on receipt of Performance Bank Guarantee equal to 10% of the PO/work contract Value, valid for the warranty period, the Security deposit amount (including of EMD) shall be released by ALIMCO.

The Corporation reserves the right to forfeit the earnest/security money deposit in case the supplier fails to make good losses on supplies, unable to replace supplies found unacceptable as well as losses on account of exceptional delays in supplies.

8. Submission of Tender

The tender shall be submitted online in two part, viz., technical bid and price bid

Technical Bid (TC Bid)

The following documents are to be furnished by the tenderer along with **Technical Bid** as per the tender document

- 1) Scanned copy of DD against tender document cost & EMD / Exemption Certificate.
- 2) Scanned copy of all relevant documents as per Tender.
- 3) Original copy of DD against tender fees and EMD must reach ALIMCO, Kanpur on or before date --.-2019

Please note that no indication of the rates/amounts be made in any of the documents submitted with the TC-BID

PRICE BID (P Bid)

- (a) Schedule of price bid in the form of Annexure-C.

9. **OPENING & EVALUATION OF TENDER:**

- a) The tenders shall be opened online at <https://eprocure.gov.in/eprocure/app> at 15.30 hours on due date in presence of representatives of tenderers who may like to be present. Bidder can view live bid opening at their remote end also. Bids will be opened as per date/time as mentioned in the Tender Critical Date Sheet. After online opening of Technical-Bid the results of their qualification as well Price-Bid opening will be intimated latter.
- b) Only the 'TC-Bid' (Part I) of the tender will be opened online on---.2019.at **15.30 Hrs.** by the Tender Opening Committee of ALIMCO in the presence of representatives of tenderers who may like to be present. **Tenders received late will not be considered. If the due date happens to be a holiday the same stands extended to the date of next working day with time remaining the same. However, the Corporation has the right to alter the date & time of Tender closing & opening. The same shall be notified only on the website of the Corporation.**The procedure will be as follows:
- c) Subsequent to opening of 'TC-BID' of all tenderers correspondence / discussion with regard to the conditions and other technical aspects may be held by the Technical Committee or by Officer(s) nominated by ALIMCO, if needed
- d) In case any tenderer submit only 'TC-BID' his tender shall not be considered and shall be treated as incomplete tender. Similarly, if any tenderer submit only 'P-BID', the same shall also be not considered.
- e) The technical bids will be evaluated to shortlist the eligible bidders. The technical bids of only the eligible bidders shall be considered for further processing (technical evaluation). Preliminary scrutiny of the proposal will be made to determine whether they are complete, required processing tender fee and EMD have been furnished whether the documents have been properly signed, and whether the bids are generally in order. Proposals not conforming to such preliminary requirements will be prima facie rejected.
- f) The ALIMCO has a right to seek clarification/ documents from the tenderer relating to TC-Bid of tenderers if such information is essential for evaluation of tender.
- g) Bidder whose technical bids found to be acceptable and meeting the Mandatory/Pre-qualification criteria as specified in this tender will only be informed about the date and time of the opening of the commercial bid (P-Bid).
- h) ALIMCO will open commercial bids of only the technically shortlisted bids, in the presence of the bidder or their-authorized representative who choose to attend the bid opening, at the time and date to be informed later.
- i) Commercial bids of only those bidders will be opened who are found to be technically qualified & acceptable and the work shall be awarded to the commercially lowest bidder. The comparative statement of quotations (CSQ) of the P-bid will be prepared on FOR ALIMCO(as per defined destination in Para 1) and evaluated on the basis of complete price FOR ALIMCO (as per defined destination in Para 1) of the Plant including basic price, packing & forwarding, freight, taxes, installation & commissioning charges, etc.

10. REJECTION OF TENDER:

- a) Tenders received without EMD are liable to be rejected as also indicated at Para 7.
- b) Conditional and unsigned tenders, tenders containing absurd or unworkable rates and amounts, tenders which are incomplete or otherwise considered defective and tenders not in accordance with the tender conditions, drawings/specifications etc. are liable to be rejected.
- c) Canvassing in any form in connection with the tender is strictly prohibited and the tenders submitted by the party who resort to canvassing are liable to be rejected.
- d) The acceptance of tender will rest with ALIMCO which does not bind itself to accept the lowest tender or any tender and reserves full rights for the rejection of any or all tenders without assigning any reasons whatsoever.

11. VALIDITY OF TENDER:

- a) The tenders shall remain open for acceptance for a minimum period validity of 90 days from, the date of opening of tenders or till such period up to which the extension of validity is agreed to mutually. This may please be stipulated clearly in the Quotation.
- b) If notified within this period that the tender has been accepted, the tenderer shall be bound by the terms of the offer along with the terms that have been agreed mutually.
- c) All the tenders without PROPER SPECIFICATION / MAKE / BRAND / BROCHURE /CATALOUGE/ LEAFLET & TEST CERTIFICATES wherever required, are liable to be rejected. It shall be in the interest of the tenderer that complete offer is made for our consideration. It will be in the interest of the tenderer to submit details/values against each individual parameters mentioned at Annexure 'B2' and sample wherever possible along with the offer.

12. QUANTITY DISCOUNT:

In order to submit the most competitive offer, the Tenderer may indicate the quantity discounts as applicable on the price. However, the buyer reserves the right to accept the quantity discounts for lower quantities as well. The quantities indicated in the Annexure 'A' are liable to revision either upwards or downwards.

13. DELIVERY:

- a) The delivery, installation and commissioning of the whole plant and its accessories must be completed within the stipulated period specified at Annexure-A, from the date of placement/acceptance of PO/ work contract.
- b) The delivery of the plant shall be made strictly as per delivery schedule as stipulated in our Purchase Order/Work Contract or modified time to time by ALIMCO. In case of Failure to supply, install & commission/execution of work within the stipulated period will make the tenderers liable to an unconditional penalty. The penalty/Liquidated damages shall be levied at the rate of point five percent (i.e. 1/2 % or 0.5%) per week (or fraction of a week) subject to the maximum of 10% of the purchase order / work contract value.

14. INSPECTION:

- a) Inspection will be carried out at the Destination (refer Para 1) and unacceptable/ rejected Item will be returned to the supplier through bank at the supplier's risk and cost by road, only after receipt and acceptance of replacement supplies provided by the suppliers free of cost. Alternatively, all the tenderer will have to furnish their Banker's Name, Address including Code No. along with a declaration/undertaking to guarantee collection of the returned supplies documents negotiated through their bank within 07 days of its presentation.
- b) In case of local supplier, rejected Item shall be lifted from our stores within 15 days of our rejection advice after refunding the payment, if already made to them before collecting the supply. In case of failure to lift the rejected Item, we may dispose-off the rejected Item as deemed fit and no claim whatsoever shall be entertained in this respect and the tenderer shall be liable to pay amount paid by ALIMCO, if any.

15. TERMS OF PAYMENT:

ALIMCO is a Schedule 'C' MiniRatna Category II Central Public Sector Enterprises, registered under Section 8 (Not for Profit motive) of the Companies Act, 2013, (corresponding to Section 25 of the Companies Act, 1956). The terms of payment shall be as follows:

- a) 60% material cost of invoice (exclude GST) on receipt of material at ALIMCO site.
- b) 30% material cost of invoice plus installation (exclude GST) total 90%, after completion of erection work of each item (exclude GST).
- c) Balance 10% (exclude GST) of work will be released after successful prove out and receipt of bank guarantee from a nationalized bank equal to 10% of PO/WO value.
- d) GST portion shall be paid on availment and matching of Input Credit.
- e) Supplier's Bank Charges/Draft making charges will have to be borne by the party only.
- f) The tenderer will be required to submit their RTGS details duly certified by the Bank along with a crossed/cancelled Cheque in support of the details, as all payments/refunds are preferably be made through RTGS.

16. RIGHT OF ACCEPTANCE:

ALIMCO reserves the right to reject any or all the tenders in part or full without assigning any reasons thereof. The Corporation also reserves the right to negotiate the rates and terms and conditions of supply with any or all the tenderers at its sole discretion as deemed fit without assigning any reasons thereof.

ARBITRATION

In case of any dispute, arising during the operation of the contract, efforts shall be made to resolve it by mutual discussions failing which the matter shall be referred to the Chairman & Managing Director of ALIMCO G.T.Road, Kanpur-209217 or his nominee whose decision shall be final and binding on both the parties. Arbitration proceedings shall be held at Kanpur as per provisions of the Arbitration & Conciliation Act 1996 and the Kanpur City Court shall have the jurisdiction in the matter.

Thanking you,

Yours faithfully,
For Artificial Limbs Mfg. Corporation of India

Senior Manager (SP&C)

Encl: As Above

ANNEXURE – A

SPECIFICATIONS "Design, Fabrication, Supply, Installation & Commissioning of Automatic Conveyorisred Integrated Powder Coating Plant along with Pre-dip treatment Plant (On Turn Key Basis)"

Code No. _____

Qty. – As mentioned

Description:
Automatic powder coating Plant with a feature of quick change of powder coating colors on various tubular frames & Sheet metal components. (refer attached drawings)
The System is automated from loading of frame on conveyor to final coating to unloading of frame. (Refer attached schematic diagram)
Offline degreasing system.
Overhead close-loop conveyor Plant used for movement of material across stations of powder coating line.

A	Scope of supply/work	
1	Degrease & De-Rust system (Offline) for Rusted Component only	Confirm
2	Fully automatic powder coating plant with over head Conveyorisred dip pretreatment consisting:	Confirm
2.1	Dip Pre-treatment Plant with Water Drying Oven (In line to Conveyor)	Confirm
2.2	Powder Coating Booth with Guns (Automatic along with Provision of touch up guns)	Confirm
2.3	Powder Curing Oven	Confirm
2.4	Continuous Over Head Conveyor	Confirm
3	PNG piping with all accessories	Confirm
4	Electrical Panel & Cabling	Confirm
5	Installation and successful commissioning with trials	Confirm
B	Technical Specification	
Sr. No.	Description of requirement	Required
I	Basics of Design	
1	Product size maximum (mm)	900L x 900W x 1500H
2	Product Cutout Envelope Enclosure(mm)	1100L x 1100W x 1700H
3	Material of component to be Powder coated	MS/AL (Mild Steel tubular/Sheet, Aluminum tubular/Sheet as per drawing)
4	Weight of Product (Largest)	30 kg
5	Working Shift	2
6	Working Hours/Shift	8 hrs/Shift
7	Productivity: No. of Products/year (in no.)	360000
8	Productivity: No. of Products /Month (in no.)	30000
9	Productivity: No. of Products /shift	600/shift of 8 hours
10	Powder baking schedule	EMT 10-12 minute @ 180°C
II	Offline Degreasing & De-Rusting System (manual with hoist dipping arrangement)-offline	
	Process	6 Tank cleaning process Working Dimension
1	Tank material as follows:	
1.1	Degreasing Tank	M.S. (Minimum 4 mm Thick) Size: (2350L x 1300W x 2450H) mm

1.2	Water Rinse-1 Tank	M.S. (Minimum 4 mm Thick) Size: (2350L x 1300W x 2450H) mm
1.3	De-Rusting Tank	SS 316 (Minimum 2.5 mm Thick) Size: (2350L x 1300W x 2450H) mm
1.4	Water Rinse 2 Tank	MS 4mm Thick with inside FRP Minimum 4 mm Thick Size: (2350L x 1300W x 2450H) mm
1.5	Water Rinse 3 Tank	MS with inside FRP coating (Minimum 4 mm Thick) Size: (2350L x 1300W x 2450H) mm
1.6	Rust Prevention Oil Tank	MS (Minimum 4 mm Thick) Size: (2350L x 1300W x 2450H) mm
III	Tank Heating System	For Degrease
1	Fuel	PNG
2	Initial Heating Time	60 minute (maximum)
3	Temperature	De-Grease: 55°C (maximum)
IV	Accessories for Dip Pre-treatment offline Plant	
1	Fume Extractor- for De-Grease (01 Set) minimum capacity	2500m ³ /hr , 3 Phase 415 V A.C.
2	Scrubber for De-Rusting	Confirm
3	Electrically Operated Hoist shall be capable of material movement in all tanks of offline De- greasing & De-rusting system.	01No. capacity - 1000 kg
4	Basket: Basket is used to transport material from one tank to another The same basket will keep small as well as large component of each product as per attached product drawings	Confirm
4.1	Material of Basket	Stainless Steel
4.2	No. Of Basket	Minimum 6 No.
4.3	Basket Size (Minimum)	(2150L x 1000Wx 1950H) mm
4.4	Weight Of Basket (Empty)	Minimum (120-140) Kg
4.5	Weight Of Basket (With Component)	Minimum 250 Kg
5	Air agitator for De-Rusting System: Agitator is consisting of 02 set of blowers connected parallel which is comprised of suction with filters & distribution ducting/piping through all pre-treatment tanks. (One blower will work at a time).	Twin-lobe Blower motor Capacity: (3 H.P.,200 m ³ /hr) (Minimum) each
V	Pre-treatment Process (automatic with conveyors dipping arrangement)- Inline	
1	Process	6 Tanks cleaning process Working Dimension
	Tank Material as follows:	
1.1	KOD (Knock Off Degreasing) Tank	MS- 4 mm (Minimum) Size: (15345L x 1400W x 1925H) mm
1.2	Degrease Tank	MS- 4 mm (Minimum)

		Size: (Size: 15345L x 1400W x 1925H) mm
1.3	Water Rinse 1 Tank	MS- 4 mm (Minimum) Size: (12845L x 1400W x 1925H) mm
1.4	Water Rinse 2 Tank	MS- 4 mm (Minimum) Size: (12845L x 1400W x 1925H) mm
1.5	DM Rinse 1 Tank	SS 304 (Minimum 2.5 mm Thick) Size: (12845L x 1400W x 1925H) mm
1.6	NANO Coating Tank	SS 304 (Minimum 2.5 mm Thick) Size: (15345L x 1400W x 1925H) mm
7	DM Rinse 2 Tank	SS 304 (Minimum 4 mm Thick) Size: (12845L x 1400W x 1925H) mm
8	Air Blow Zone	After DM Rinse 2
8.1	Description	To blow off extra water from component it is provided after all tanks with suitable capacity blower.
8.2	Air Blow off Zone blower capacity (minimum)	3 H.P. 1400 rpm, 6000 m ³ /hr
8.3	Each Article travel time	0.5-1 Minute @ 2.5 meter/ min conveyor speed.
9	The tanks should have water inlets, overflow connection and drain connections with valves and pipes along with pipes/ducts to blow air to all tanks of appropriate quality and length.	Confirm
9.1	Tank Valve Size	
1	Inlet Water (in mm)	50 NB (minimum)
2	Drain Water (in mm)	100 NB (minimum)
VI	Tank Heating System	For KOD, Degrease & cleaning from side of tank
1	Fuel arrangement	PNG with suitable burner
2	Initial Heating Time	60 Minute.
3	Temperature	55°C max.
VII	Accessories for Pretreatment- Inline	
1	Air agitator: Agitator is consisting of blower which is comprised of suction box with filters & distribution ducting/piping through all pre-treatment tanks.	02 nos. Required Twin lobe Blower motor Capacity: 30 H.P., 2100 m ³ /hr (Minimum)
2	Nano Filter Suitable 0.5 Micron Filter with SS housing & easy to clean/remove.	Confirm
3	Oil skimmer Belt Type with Motor Separate Tank & Pump for circulation with main process tank of De-grease.	Required Capacity of Motor: 90 W, 30 rpm (minimum)
4	DM Plant	
4.1	Capacity (minimum)	2000 L per hour

4.2	DM Conductivity (minimum)	10 µSiemens
4.3	PH value	6.5-7
4.4	DM Make	Amit Aqua/Ion Exchange/Span Hydrotech/Hi-Tech
VIII	Water Drying Oven (WDO)	Conveyorised (Automatic)
1	Fuel	PNG
2	Max. Temp.	140°C
3	Initial Heating Time of oven	60 Minute (maximum)
4	Material of construction of Oven	CRCA and HR
5	Insulation	Rock Wool Density 48 Kg/M ³ (Minimum)
6	WDO Heating System room Temperature	0-2°C (minimum)
7	Oven Over-All Dimension	(14715L x3130W x 5825H) mm (minimum)
8	Oven Working Dimension	(12615L x3030W x 2800H) mm (minimum)
9	Article Entry & Exit Gate/Cut-out Size	1100 mm(W) x 1700 mm (H) (minimum)
10	Article entry and exit	Conveyorised
11	Finish Painting	Inside Heat Resistant Aluminium paint, Outside enamel paint
12	Safety	
12.1	Pressure control	Confirm
12.2	Safety door: Which have Proper Provision to escape gases in case of emergency with Pre-Define temperature and Pressure.	Confirm
12.3	Inspection cum explosion door	Confirm
13	Indication Lamps & Push Buttons	Confirm
14	Temperature Indicator and Controller for Oven Temperature PT100 (Thermo-couple type) Sensors for Temperature	Confirm
15	Temperature Indicator Cum Controller (TIC)	02 no. (minimum)
16	PT 100 Sensor	01 no. (minimum)
17	Vent for Oven (natural Exhaust for flue gas)	Confirm
18	Moist Filter for burner in inlet manifold	Confirm
19	Blower burner Interlock	Confirm
20	Oven working	Auto cycle
IX	Pressurization zone	
1	Description	To provide dust free atmosphere while powder coating, this chamber is provided in which filtered air is delivered at top of booth through duct at specific air velocity.
2	Blower Pressure	60-65 mm WG
3	Illumination in Zone	400 to 600 lux
4	Material	Folded Panels fabricated out of 16 SWG / 2 mm CRCA with View Glass

5	Air handling unit	Blower and suitable filters which will positively deliver the air inside the zone.
X	Powder Curing Oven (PCO)	
1	Fuel	PNG
2	Max. Temp.	220.00 °C. at EMT
3	Initial Heating Time of oven	Maximum 60 minutes
4	Material of construction	CRCA and HR
5	Insulation to be designed in such a manner that Outside surface temperature will be at room temperature	Rock Wool Density Approx. 48 Kg/M ³ . (Minimum)
6	PCO Heating System room Temperature	0-2°C (minimum)
7	Finish Paint for Oven	Inside Heat Resistant Aluminum paint, Outside Enamel paint
8	Entry & Exit Gate Size	1100 mm(W) x 1700 mm (H) (minimum)
9	Article Entry & Exit	On Conveyor along Camelback type to Prevent Heat Loss
10	Oven Working Dimension	(15285L x6230W x 2700H) mm (Minimum)
11	Oven Overall Dimension	(15685L x6630W x 5825H) mm (Minimum)
12	Safety	
12.1	Pressure control	Confirm
12.2	Safety door: Which have Proper Provision to escape gases in case of emergency with Pre-Define temperature and Pressure.	Confirm
12.3	Inspection cum explosion door	Confirm
13	Indication Lamps & Push Buttons	Confirm
14	Temperature Indicator Cum Controller for Oven Temperature PT100 (Thermo-couple type)Sensors for Temperature	Confirm
15	Temperature cum indicator controller (TIC)	02 no. (minimum)
16	PT 100 Sensor	01 no. (minimum)
17	Vent for Oven (natural Exhaust for flue gas)	Confirm
18	Moist Filter for burner in inlet manifold	Confirm
19	Blower burner Interlock	Confirm
20	Oven working	Auto cycle
XI	Conveyor (All across the process)	
1	Type	4-wheel open track
2	Conveyor speed	2.5 meter/minute
3	Conveyor length	Minimum 475 meter
4	Drive	Sprocket/caterpillar type
5	Take up	Screw/dead weight type
6	Point load	40 Kg maximum
XII	Powder coating booth	
1	Description	Automatic booth consisting of reciprocator, auto guns, cyclone

		recovery system, post filter unit with pulsing and provision of two manual touch up stations with manual gun.
1.1	No. of auto guns	Minimum 10 on booth (5 on each side) or better
1.2	Construction of booth	SS-316 panels and MS structure. (With illumination of min. 400 Lux)
1.3	Vendor to give total colour change time	90 minute (Maximum)
1.4	Powder Recovery System	Confirm
1.5	Height sensor (working: no object no spray)	Confirm
XIII	SCADA (Supervisory Control and Data Acquisition) Based Centralized Control system (The panel body should be Powder Coated) for Indication, Control & Monitoring for all heating tank temperature, pH Value, Level Indicator for solution of all tanks, Water drying Oven temperature, baking oven temperature, working of all powder coating gun, Conveyor system.	Confirm
1	PC Based controlling the complete system along with Conveyor	Confirm
2	Other than offline Pre-dip treatment plant, Centralized PC Base Control System should provide single point control to operate all plant activities such as conveyor, ovens, all type of sensors, alarms, blowers.	Confirm
3	PC Configuration	Confirm
3.1	High configuration system (i7 Processor or higher)	Confirm
3.2	RAM	4 GB (minimum)
3.3	Windows 10 Professional Operating System (Except Windows Home)	Confirm
3.4	Monitor with suitable HDMI Cables & repeater size as mentioned	02 Set
3.5	Monitor Size	
3.5.1	19" LED (01 Set)	Confirm
3.5.2	90" LED (01 Set)	Confirm
4	Serial Ports/Serial PCIX Cards	02 Set
5	Wired Ethernet Port	Confirm
6	Wi-Fi USB	Confirm
7	Bluetooth USB	Confirm
C	Component Hanging Fixtures	
	Vendor to design manufacture & supply fixture for Pre-dip & Powder coating & Curing for the products Kit as per drawing (refer drawing Attached)	As mention below Vendor to specify & Confirm
1	Tricycle Family (Small Part Fixture other than main frame) (TD2C98, TD2C95/96, TD2C79, TD2C38/28 & TD2A65,TD2C48) (Vendor to design single fixture to accommodate all type of Product & its	200 Nos

	components as mention).	
2	Wheel Chair Family	
2.1	TD2C51, TD2A06, TD2A26, TD2A02 & TD2B37 (Vendor to design single fixture to accommodate all type of Product & its components as mention).	150 Nos
2.2	Wheel Chair Rough Terrain (TD2C36)	50 nos
3	Tripod, Tetra Pod & Can etc. Drawing No. : TD 2P 02, TD 2P 04, TD2N82, TD2N85, TD2N86, TD1N70 (Vendor to design single fixture to accommodate all type of Product and its components as mention).	60 nos
4	Rollator(Size-I & Size-II), Walker, Drawing No.: TD2N85, TD2N86, TD2N82. (Vendor to design single fixture to accommodate all type of Product and its components as mention).	40 nos
5	Vendor to ensure the fixtures are pre-coated to avoid deposition during coating	Confirm
6	The Fixture should be made in such a manner that all components of single product may set up in single fixture Vendor to refer attached product drawing for same.	Confirm
7	Vendor to refer attached fixture drawing for reference and make its own drawing considering the envelope and over-all requirement for all family of product.	Vendor to give fixtures manufacturing drawing for all product & Confirm
D	Inline Stripping Off Arrangement After powder coating hanging Jigs & fixture will dip into this tank to remove powder particles deposited on hanging Jigs & fixtures.	Qty- 2 nos., MS- 4 mm (Minimum) (Vendor to confirm & Provide Details)
1	Cleaning Tank	Size: (15345L x 1000W x 1925H) mm , MS- 4 mm (Minimum)
2	Water Rinse	Size: (15345L x 1000W x 1925H) mm, MS- 4 mm (Minimum)
3	Tank Heating System	For Fixture cleaning tank from side of tank
3.1	Fuel arrangement	PNG with suitable burner
3.2	Initial Heating Time	100-120 Minutes.
3.3	Temperature	80°C maximum
E	Make Sheet	
1	Burner	Ecoflam / Riello/FBR

		Burners/ELCO
2	Twin-Lobe Blower	Nadi / Everest
3	Motor	Crompton Greaves/ ABB /Bharat-Bijlee/ Siemens
4	Powder coating booth with Powder Coating Gun	GEMA / Wagner / Ven Tec
5	LED Display	Panasonic/LG/Samsung
6	Main Switch, MCB, Contactor, Over Load Relay, PLC	Siemens/ C&S/L&T
7	Sensors	Honeywell/Sparkfun/Sushant Enterprise
8	Cable	Finolex/Havells/RR
F	General	
1	Other than mentioned any other Required Accessories for Plant (Vendor to provide list)	Specify & Confirm
2	Cabling (All necessary cables of right size is in Vendor Scope)	From Bus Bar to all Equipment
3	Exhaust Duct	Insulated till 2 metre from ground
4	Water Inlet/outlet Piping (All necessary pipes of right size is in Vendor Scope)	At one point near to pre-treatment, further piping will be in supplier scope
5	PNG Gas Consumption per hour (Piping from gas bank to system is in Vendor scope). (Vendor to note that given consumption is indicative one, Vendor to calculate load as per his design and submit while filling bid.)	120 Kg/Hr (Approx)
G	Qualification Criteria	
1	In house Installation/Commissioning Team with suitable staff	Confirm & Provide Details
2	Prior Experience of supplying such systems to manufacturers of M.S. Pipe/ Tubular Structure components. Vendor must have done such installation at least 05 nos. such plants during last 05 years Vendor to provide details of such customer along with contact number.	Confirm & Provide Details
H	Documentation-	
1	Detailed layout plan and prospect to be given (Area of shop as per attached drawing)	Each documentation three sets in English along with delivery
2	Operating instruction& Manual	
3	Installation and Commissioning instructions	
4	Time Temperature Record Report	
5	Preventive maintenance instructions	
6	Instruction manual for supplied coolant concentrate and coolant	
7	Detailed invoice and packing list of all items and devices and detailed prospect of machine and all other accessories enclosed in.	
8	List of proposed powder & other consumable required to run the plant	
9	The consumables for Initial fill, prove out are in vendor scope. Other than the consumables for initial fill the following consumables need to be supplied.	

9.1	Chemical for KOD & De-greasing 6Tons along with plant (Vendor to give At-Least 3 make with similar chemical properties)	
9.2	Chemical for De-Rusting 4.5 Tons along with plant (other than chemical require for prove out) Vendor to give At-Least 3 make with similar chemical properties)	
9.3	Chemical for NANO coating – 3Ton (Vendor to give At-Least 3 make with similar chemical properties)	
9.4	Powder for Powder Coating Plant 9 Ton along with plant (Vendor to give At-Least 3 make with similar chemical properties)	
9.5	Chemical for Strip-off System-4.5 Ton (Vendor to give At-Least 3 make with similar chemical properties)	
10	List of necessary spares required to run the plant (Only list is required, Rate not to be quoted in TC-Bid)	
I	Installation & commissioning-	
1	The complete installation and commissioning must be carried out by the supplier at the project site (ALIMCO-Kanpur)	Confirm
2	Training to be provided during installation, commissioning and prove out at ALIMCO-Kanpur.	Confirm
2.1	Operator training	28 Days
2.2	Maintenance course all Inclusive (mechanical, electrical and electronics)	15 Days
3	Prove Out powder coating of 5 Days planned production of components to be done at ALIMCO Premises. (Refer Attached Product Drawings).	Confirm
J	General operating condition	
1	3 Phase 415V +/- 10%	Confirm
2	Frequency 50 Hz +/- 5%	Confirm
3	Protection level	IP54 or better
4	System should have capability to handle voltage, current and frequency fluctuation, necessary protection to be provided.	Confirm
5	Complete electrical system should be tropicalized for Indian condition 5 to 50 degree centigrade temp and RH 100% (Including additional accessories)	Confirm
K	Service	
1	Detail of authorized Service Partners in India (Name & Address) must be certified by manufacturer and shown in the quotation	Confirm
L	Warranty/defect Liability:	2 years (Minimum)
M	Vendor shall consider any other item, (other than mention in Annexure-A) necessary for successful operation & installation of plant, Vendor shall provide list.	Confirm

DELIVERY PERIOD INCLUDING INSTALLATION & COMMISSIONING:

The delivery, installation & commissioning period of complete Powder Coating Plant at the destination mentioned in Para 1 on page no. 02 of the tender documents will be 10 months for delivery and installation, commissioning & Prove-Out from the date of placement of Purchase Order/work contract.

WARRANTY/defect Liability:

The entire Powder Coating Plant inclusive of all system/accessories must be covered under warranty for a period of 24 months (minimum) from the date of successful Installation & commissioning.

NOTE:

1. Six month hand holding (Vendor to consider 3 days visit per month till 6 month, All expenses will be borne by Vendor)
2. Breakdown calls to be attended within 48 hrs.
3. Supply to be done on Turnkey Basis. ALIMCO shall provide electrical supply point, air supply and water supply near to the place of installation. (Civil Layout will be provided)
4. Civil foundation details and drawings with specifications to be provided by the tenderer.
5. Total power Electrical power consumption (in KW) & Gas Power Consumption (in Kg/hr) to be provided by the tenderer.
6. Layout drawing should be provided in CAD format.
7. Visual control board to be provided for monitoring with alarm signals.
8. ALIMCO may at its discretion decide to visit & verify the facility and validate in case of discrepancy the vendor shall be technically disqualified.
9. All necessary Details as asked in Annexure-A to be duly full-filled failing which Bid shall be technically Rejected.
10. The Drawing/Layout attached along with details is for standard purpose and should be the minimum qualifying criteria in all aspect. However vendor is free to design its own plan & supply above standard inculcating minimum requirement of the plant and if any change should be submitted while filling bid.
11. Entire System shall be designed and commissioned for ease of access of all facilities and maintenance.
12. The Bus bar trunking (BBT) for electricity has been provided at 8.5 meter height. Sufficient suitable cable, cable tray, circuit breaker, fittings to connect the plant & it's accessories from power source is in vendor's scope.
13. Separate list of spares along with rate, required for smooth functioning of the plant & its accessories. The list is solely required with respect to future requirements/reference of Plant. Hence total cost of items from the list should not be the part of final price of tender quote.

(On Letter Head of the Tenderer)

APPENDIX-1

UNDERTAKING

We hereby undertake that The delivery, installation and commissioning of the whole plant & it's accessories (on turn Key Basis) must be completed within the stipulated period as indicated in the tender or specified at Annexure-A, from the date of placement of PO/work contract".

Dated:

Authorised Signatory :

Name :-

Designation :-

Seal :-

(On Letter Head of the Tenderer)

APPENDIX -2

UNDERTAKING

We hereby undertake that our Firm has not been debarred/blacklisted/terminated/banned to participate in the Tender by any Govt. Institution, PSU, State Govt. or Central Govt. Deptt.

Dated:

Authorised Signatory :

Name :-

Designation :-

Seal :-

(On Letter Head of the Tenderer)

APPENDIX -3

UNDERTAKING

We hereby undertake that our Offer is valid for acceptance for 90 days from the date of opening of Techno-Commercial Bid (TC-Bid).

Dated:

Authorised Signatory :

Name :-

Designation :-

Seal :-

(On Letter Head of the Tenderer)

APPENDIX -4

UNDERTAKING

We hereby undertake that all the tender terms & conditions are acceptable to us.

Dated:

Authorised Signatory :

Name :-

Designation :-

Seal :-

(On Letter Head of the Tenderer)

APPENDIX -5

UNDERTAKING

We hereby undertake that a Performance Bank Guarantee (PBG) of 10% of the order value, valid for warranty period & claim submission date within 3 months from the date of expiry of Bank Guarantee period will be submitted after the commissioning & Prove-out of the plant (on turn-key basis).

Dated:

Authorised Signatory :

Name :-

Designation :-

Seal :-

(On Letter Head of the Tenderer)

APPENDIX -6

UNDERTAKING

We hereby undertake to the effect that a Advance Bank Guarantee (BG) of 110% of the advance value subject to maximum upto 100 Lakhs, valid for successful installation, commissioning & Prove out of whole plant & its accessories can be submitted within 1 months from the date of releasing the PO/Work Order of the plant (on turn-key basis) .

Dated:

Authorised Signatory :

Name :-

Designation :-

Seal :-

(On Letter Head of the Tenderer)

UNDERTAKING

We hereby undertake that our firm shall submit the security deposit as per tender terms within 14 days of releasing PO/Work Order of the plant (on turn-key basis).

Dated:

Authorised Signatory :

Name :-

Designation :-

Seal :-

(On Letter Head of the Tenderer)

APPENDIX -8

UNDERTAKING

We hereby undertake that our firm shall provide the complete training regarding operation & maintenance of the Whole Plant (On turn-key Basis)& its accessories.

Dated:

Authorised Signatory :

Name :-

Designation :-

Seal :-

(On Letter Head of the Tenderer)

APPENDIX -9

UNDERTAKING

We hereby undertake that we will unconditionally accept to replace the supplies if rejected at the destination.

Dated:

Authorised Signatory :

Name :-

Designation :-

Seal :-

(On Letter Head of the Tenderer)

APPENDIX -10

UNDERTAKING

We hereby undertake that payment terms mentioned at Para No-15 of this tender document (i.e. Terms of Payment) is acceptable to us.

Dated:

Authorised Signatory :

Name :-

Designation :-

Seal :-

(On Letter Head of the Tenderer)

APPENDIX -11

UNDERTAKING

We hereby undertake that our firm shall attach the proof regarding prior Experience of supplying such systems to manufacturers of Mild Steel Pipe/ Tubular Structure components. As specified in the Annexure-A of the Tender Document i.e. (Vendor must have done such installation at least 03 nos. such plants during last 05 years Vendor to provide valid details of such customer along with contact number for verification).

Sl. No.	Capability details	Details	Requirement	
1	In House manufacturing facility	Attached details of facility along with machine details	Minimum area should be 18000 sq. feet with in house machines for making powder coating equipment's.	
2	In House powder coating Design and Engineering Team	List of Designers with experience	Minimum team size of 6	
3	In House installation and commissioning team	List of Installation and commissioning team	Minimum team size of 15 people	
4	Provide the details of 5 Customer where similar work has been executed in last 5 years.	Contact number and details of 3 Customer with similar work of powder coating line		

Dated:

Authorised Signatory :

Name :-

Designation :-

Seal :-

TENDER ACCEPTANCE LETTER
(To be given on Company Letter Head)

Date:

To,

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: _____

Name of Tender / Work: -

Dear Sir,

1. I / We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely:

as per your advertisement, given in the above mentioned website(s).

2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. _____ to _____ (including all documents like annexure(s), schedule(s), etc .), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.

3. The corrigendum(s) issued from time to time by your department/ organisation to have also been taken into consideration, while submitting this acceptance letter.

4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.

5. I / We do hereby declare that our Firm has not been blacklisted/ debarred/ terminated/ banned by any Govt. Department/Public sector undertaking.

6. I / We certify that all information furnished by our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organisation shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,
(Signature of the Bidder, with Official Seal)

(On Letter Head of the Tenderer)

UNDERTAKING

We hereby confirm that payment of basic value within 30 days after supply & acceptance/approval of the whole plant & its accessories or Submission of bill, whichever is later, is acceptable to us. However, the GST portion shall be claimed only after submission of GST Return and Input credit appearing in corporation's GST portal, filed online by the tenderer clearly (duly highlighted) showing invoice/ bill number and amount to ALIMCO so as to enable the Corporation to avail GST input credit after matching of the GST return and Invoice submitted in the Corporation. No claim against the Corporation shall be made for non- matching of GST and the amount shall be credited back by us.

Dated:

Authorised Signatory:

Name:-

Designation

Seal:

UNDERTAKING

We hereby undertake that as follows:

- a) 60% of item value raised invoice (exclude GST) on receipt of material at ALIMCO site.
- b) 30% of item value raised invoice plus installation (exclude GST)
- c) Balance 10% (exclude GST) of item value will be released after successful erection, commissioning & prove out and receipt of bank guarantee from a nationalized bank equal to 10% of PO/WO value.
- d) GST portion shall be paid on availment and matching of Input Credit.
- e) Supplier's Bank Charges/Draft making charges will have to be borne by the party only.
- f) The tenderer will be required to submit their RTGS details duly certified by the Bank along with a crossed/cancelled Cheque in support of the details, as all payments/refunds are preferably be made through RTGS..

Payment will be done on the basis of delivery of items as per below stages (not necessary in sequence).

1. Stage-I: Offline Pre-Dip Treatment Plant and its accessories
2. Stage-II: Inline Pre-Dip Treatment Plant and its accessories
3. Stage-III: Strip-Off Tanks and its accessories
4. Stage-IV: DM Plant & other necessary equipment required for proper functioning of Pre-Dip Treatment Plant (Both Offline & In-line).
5. Stage V: Water Drying Oven and its accessories
6. Stage-VI: Powder Curing Oven and its accessories
7. Stage-VII: Powder Coating Booth and its accessories
8. Stage-VIII: Conveyor Systems of the Whole Plant and its accessories
9. Stage-IX: SCADA System and its accessories as asked in Annexure-A.
10. Stage X: Any other item for Collaboration of whole Plant (On turn Key Basis).
11. Stage XI: Chemicals & Consumables as asked in Annexure-A.
12. Stage XII: Jigs & Fixtures and its accessories

Dated:

Authorised Signatory :

Name :-

Designation :-

Seal :-

(On Letter Head of the Tenderer)

APPENDIX -15

UNDERTAKING

We hereby undertake that we will execute AMC for the period of 03 years after the expiry of warranty/defect liability period as per the requirement of ALIMCO and the AMC shall not exceed 0.5%, 1.5% & 2.5% of basic value of the machine/plant during 3rd, 4th & 5th year respectively from the date of successful installation & commissioning of the machine/plant/item/equipment.

Dated:

Authorised Signatory :

Name :-

Designation :-

Seal :-

Instructions for Online Bid Submission:

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

Registration:

1. Bidders are required to enrol on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link "Online bidder Enrolment" on the CPP Portal which is free of charge
2. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
3. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
4. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudra etc.), with their profile.
5. Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
6. Bidder then logs in to the site through the secured log-in by entering their user ID/Password and the password of the DSC/e-Token.

Searching For Tender Documents:

1. There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
2. Once the bidders have selected the tenders they are interested in, they may download the required documents/tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS/e-mail in case there is any corrigendum issued to the tender document.
3. The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification/help from the Helpdesk.

Preparation of Bids:

- a. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- b. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of

documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.

- c. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- d. To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use “My Space” or “Other Important Documents” area available to them to upload such documents and keep it as a repository.

Note: My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder has uploaded his Documents in My Documents space, this does not automatically ensure these Documents being part of Technical Bid.

Submission of Bids:

1. Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
3. Bidder has to select the payment option as “offline” to pay the tender fee/EMD as applicable and enter details of the instrument.
4. Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/ couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
5. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
6. The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
7. All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers' public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.

8. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
9. Upon the successful and timely submission of bids (ie after Clicking “Freeze Bid Submission” in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
10. The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

Assistance to Bidders:

1. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
2. Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk Nos. 0120-4200462, 0120-4001002

Sr. No.	Mandatory/Pre-Qualification Criteria	Complied / Not Complied	Provide details
B1			
1	Submit, scan copy of DD/ Bankers cheque for Rs. 560/- (GST @ 12% Included) in favour of ALIMCO, payable at Kanpur towards cost of Tender documents, if downloaded from the website of the Corporation/CPMP and original copy of the same should reach to the office of Senior Manager (SP&C), Artificial Limbs Manufacturing Corporation of India, G. T. Road, Kanpur – 209 217 on or before dated ---.---.2019(All SSI units/ MSE Vendors are exempted from Tender Cost).		
2	Earnest Money :-Submit scan copy of Demand Draft or Pay Order or Bankers Cheque for Rs. 1500000/-in favour of ALIMCO , payable at KANPUR as Earnest Money Deposit along with 'TC' BID and original copy of the same should reach to the office of Senior Manager (SP&C), Artificial Limbs Manufacturing Corporation of India, G. T. Road, Kanpur – 209 217 on or before dated ---.---.2019. Exemption from Earnest Money Deposit (EMD) will be allowed to all SSI units/ Micro & small enterprises (MSE) on submission of valid Udyog adhaar memorandum (UAM) against tender for the items/nature of business/ type of services specified there in the UAM.		
3	The person signing the bid should be duly authorised representative of the firm/company whose signature should be verified and certificate of authority should be submitted. The poser or authorisation or any other document consisting of adequate proof of the ability of the signatory to bind the firm/company should be annexed to the bid.		
4	Tender documents with proper seal and signature of authorised person on each page of the bid must be submitted.		
5	The Complete specifications, Make/Model/Brand of Machine/item/equipment consisting of whole plant & its accessories offered on parameters specified as per Annexure-A must be mentioned. The details with values for individual specifications/parameters desired must be indicated at Annexure 'B2' to this tender document.		
6	Copy of GST Registration Certificate, duly signed & stamped.		
7	The tenderer should have an average annual turnover of not less than INR 20 Crore during the last 03 financial years i.e. FY: 2015-16, 2016-17 & 2017-18, from similar business. In order to authenticate, a certificate regarding same from a qualified Chartered Accountant is required to be furnished along with 'TC-Bid' .		
8	Copy of income tax return for the last three Assessment years, i.e. AY- 2016-17, 2017-18 & 2018-19, duly signed & stamped.		
9	Only OEM's with relevant expertise are allowed to bid for the whole plant (on turn-key basis) mentioned in the tender document.		
10	The tenderer must have completed similar supply orders/contracts/agreements minimum 01 nos. If order value is 80% of the PO/WO value, 02 nos. if order value is 60% of the PO/WO value & 03 nos. if order value is 30% of the PO/WO value of any Govt./PSU/Govt. Aided Organization/Institution/Private Organization in last 05 years, or as specified at Annexure-A, ending -- 2018. Please enclose copy of such supply orders/contracts/agreements along with completion certificate/ proof of the same issued by the client.		
11	Undertaking stating that "The delivery, installation and commissioning of the plant (on turn Key Basis) must be completed within the stipulated period as indicated in the tender or specified at Annexure-A, from the date of placement of PO/work contract" in the format enclosed at Appendix-1.		
12	The tenderer should submit an undertaking that his/her firm has not been debarred/blacklisted/terminated/banned to participate in the tender by any Govt. Institution, PSUs, and State Govt. or Central Govt. Deptt. in the format enclosed at Appendix-2.		
13	The tenderer should submit an undertaking that his/her Offer is valid for acceptance for 90 days from the date of opening of TC Bids in the format enclosed at Appendix-3.		

14	Undertaking to the effect that all the tender terms & conditions are acceptable to the bidder in the format enclosed at Appendix-4.		
15	Undertaking to the effect that a Performance Bank Guarantee (PBG) of 10% of the order value, valid for warranty/defect liability period & claim submission date within 3 months from the date of expiry of Bank Guaranty period will be submitted after the commissioning of the plant (on turn-key basis).The security deposit (including EMD) shall be released on receipt of 10% PBG valid for warranty period in the format enclosed at Appendix-5.		
16	Undertaking to the effect that a Advance Bank Guarantee (BG) of 110% of the advance value subject to maximum up to 100 Lakhs, valid for successful installation, commissioning & Prove out of whole plant & it's accessories & can be submitted within 1 months from the date of releasing the PO/Work Order of the plant (on turn-key basis) in the format enclosed at Appendix-6. The recovery of the advance will be done as adjustment @25% of advance value from the running bill. The Advance Bank Guarantee (BG) for advance shall only be released after successful installation, commissioning & Prove-out of whole plant & it's accessories and full recovery of the advance.		
17	The tenderer should submit an undertaking that his/her firm shall provide 10% of bank guarantee within 14 days of releasing PO in the format enclosed at Appendix-7.		
18	The tenderer should submit an undertaking that his/her firm shall provide the complete training regarding operation & maintenance of the Whole Plant (On turn-key Basis)& its accessories in the format enclosed at Appendix-8.		
19	The tenderer should submit an undertaking for unconditional acceptance to replace the supplies if rejected at the destination in the format enclosed at Appendix-9.		
20	Undertaking to be submitted by the tenderer that "payment terms mentioned at Para No-15 of this tender document (i.e. Terms of Payment) is acceptable" in the format enclosed at Appendix-10.		
21	The tenderer should submit an undertaking that his firm shall attach the proof regarding prior Experience of supplying such systems to manufacturers of MS Pipe/ Tubular Structure Products/components. As specified in the Annexure-A of the Tender Document i.e. (Vendor must have done such installation at least 05 nos. such plants during last 05 years Vendor to provide valid details of such customer along with contact number for verification) in the format enclosed at Appendix-11.		
22	Tenderers are required to submit " Tender Acceptance Letter " in the format enclosed at Appendix-12.		
23	Tenderers are required to submit " Undertaking " regarding availment of GST and matching of Input credit in the format enclosed at Appendix-13.		
24	Tenderers are required to submit " Undertaking " regarding the material deliver in multi-stages and the payment of the same will be done on the basis of completion of stage wise work as given in the format enclosed in Appendix-14.		
25	Undertaking to be submitted by the tendered that "They should undertake that they will execute AMC for the period of 03 years after the expiry of warranty/defect liability period as per the requirement of ALIMCO and the AMC shall not exceed 4%, 6% & 7% of basic value of the machine/plant during 3 rd , 4 th & 5 th year respectively from the date of successful installation & commissioning of the machine/plant/item/equipment" in the format enclosed at Appendix-15.		
26	Tenderers are required to submit duly filled Annexure 'B1 & B2' , enclosed herewith.		
27	An affidavit to be sought from L1 party regarding:		
a)	The party has not been debarred/blacklisted/terminated/banned by any Govt. Institution, PSUs, and State Govt. or Central Govt. Deptt.		
b)	The party has not supplied the similar machine /system at a cost lower than the cost offered to ALIMCO to any government / semi-government / reputed private organisation in India.		

Annexure-B2

TENDER NO.PT/OT/10-AW
DATE – 18.12.2018

SPECIFICATIONS “Design, Fabrication, Supply, Installation & Commissioning of Automatic Conveyorisrd Integrated Powder Coating Plant along with Pre-dip treatment Plant (On Turn Key Basis)”

Code No. _____

Qty. – As mentioned

S.No.	Description of Item	Complied/No t Complied	Provide Details
Description: Automatic powder coating Plant with a feature of quick change of powder coating colors on various tubular frames & Sheet metal components. (refer attached drawings) The System is automated from loading of frame on conveyor to final coating to unloading of frame. (Refer attached schematic diagram) Offline degreasing system. Overhead close-loop conveyor Plant used for movement of material across stations of powder coating line.			
A Scope of supply/work			
1	Degrease & De-Rust system (Offline) for Rusted Component only	Confirm	
2	Fully automatic powder coating plant with over head Conveyorisrd dip pretreatment consisting:	Confirm	
2.1	Dip Pre-treatment Plant with Water Drying Oven (In line to Conveyor)	Confirm	
2.2	Powder Coating Booth with Guns (Automatic along with Provision of touch up guns)	Confirm	
2.3	Powder Curing Oven	Confirm	
2.4	Continuous Over Head Conveyor	Confirm	
3	PNG piping with all accessories	Confirm	
4	Electrical Panel & Cabling	Confirm	
5	Installation and successful commissioning with trials	Confirm	
B Technical Specification			
Sr. No.	Description of requirement	Required	
i Basics of Design			
1	Product size maximum (mm)	900L x 900W x 1500H	
2	Product Cutout Envelope Enclosure(mm)	1100L x 1100W x 1700H	
3	Material of component to be Powder coated	MS/AL (Mild Steel tubular/Sheet, Aluminum tubular/Sheet as per drawing)	
4	Weight of Product (Largest)	30 kg	
5	Working Shift	2	
6	Working Hours/Shift	8 hrs/Shift	
7	Productivity: No. of Products/year (in no.)	360000	
8	Productivity: No. of Products /Month (in no.)	30000	
9	Productivity: No. of Products /shift	600/shift of 8 hours	
10	Powder baking schedule	EMT 10-12 minute @ 180°C	
ii Offline Degreasing & De-Rusting System (manual with hoist dipping arrangement)-offline			
	Process	6 Tank cleaning process Working Dimension	
1	Tank material as follows:		
1.1	Degreasing Tank	M.S. (Minimum 4 mm Thick) Size: (2350L x 1300W x	

		2450H) mm		
1.2	Water Rinse-1 Tank	M.S. (Minimum 4 mm Thick) Size: (2350L x 1300W x 2450H) mm		
1.3	De-Rusting Tank	SS 316 (Minimum 2.5 mm Thick) Size: (2350L x 1300W x 2450H) mm		
1.4	Water Rinse 2 Tank	MS 4mm Thick with inside FRP Minimum 4 mm Thick Size: (2350L x 1300W x 2450H) mm		
1.5	Water Rinse 3 Tank	MS with inside FRP coating (Minimum 4 mm Thick) Size: (2350L x 1300W x 2450H) mm		
1.6	Rust Prevention Oil Tank	MS (Minimum 4 mm Thick) Size: (2350L x 1300W x 2450H) mm		
III	Tank Heating System	For Degrease		
1	Fuel	PNG		
2	Initial Heating Time	60 minute (maximum)		
3	Temperature	De-Grease: 55°C (maximum)		
IV	Accessories for Dip Pre-treatment offline Plant			
1	Fume Extractor- for De-Grease (01 Set) minimum capacity	2500m ³ /hr , 3 Phase 415 V A.C.		
2	Scrubber for De-Rusting	Confirm		
3	Electrically Operated Hoist shall be capable of material movement in all tanks of offline De-greasing & De-rusting system.	01No. capacity - 1000 kg		
4	Basket: Basket is used to transport material from one tank to another The same basket will keep small as well as large component of each product as per attached product drawings	Confirm		
4.1	Material of Basket	Stainless Steel		
4.2	No. Of Basket	Minimum 6 No.		
4.3	Basket Size (Minimum)	(2150L x 1000Wx 1950H) mm		
4.4	Weight Of Basket (Empty)	Minimum (120-140) Kg		
4.5	Weight Of Basket (With Component)	Minimum 250 Kg		
5	Air agitator for De-Rusting System: Agitator is consisting of 02 set of blowers connected parallel which is comprised of suction with filters & distribution ducting/piping through all pre-treatment tanks. (One blower will work at a time).	Twin-lobe Blower motor Capacity: (3 H.P.,200 m ³ /hr) (Minimum) each		
V	Pre-treatment Process (automatic with conveyors dipping arrangement)- Inline			
1	Process	6 Tanks cleaning process Working Dimension		
	Tank Material as follows:			
1.1	KOD (Knock Off Degreasing) Tank	MS- 4 mm (Minimum) Size: (15345L x 1400W x 1925H) mm		
1.2	Degrease Tank	MS- 4 mm (Minimum) Size: (Size: 15345L x 1400W x 1925H) mm		

1.3	Water Rinse 1 Tank	MS- 4 mm (Minimum) Size: (12845L x 1400W x 1925H) mm		
1.4	Water Rinse 2 Tank	MS- 4 mm (Minimum) Size: (12845L x 1400W x 1925H) mm		
1.5	DM Rinse 1 Tank	SS 304 (Minimum 2.5 mm Thick) Size: (12845L x 1400W x 1925H) mm		
1.6	NANO Coating Tank	SS 304 (Minimum 2.5 mm Thick) Size: (15345L x 1400W x 1925H) mm		
7	DM Rinse 2 Tank	SS 304 (Minimum 4 mm Thick) Size: (12845L x 1400W x 1925H) mm		
8	Air Blow Zone	After DM Rinse 2		
8.1	Description	To blow off extra water from component it is provided after all tanks with suitable capacity blower.		
8.2	Air Blow off Zone blower capacity (minimum)	3 H.P. 1400 rpm, 6000 m ³ /hr		
8.3	Each Article travel time	0.5-1 Minute @ 2.5 meter/ min conveyor speed.		
9	The tanks should have water inlets, overflow connection and drain connections with valves and pipes along with pipes/ducts to blow air to all tanks of appropriate quality and length.	Confirm		
9.1	Tank Valve Size			
1	Inlet Water (in mm)	50 NB (minimum)		
2	Drain Water (in mm)	100 NB (minimum)		
VI	Tank Heating System	For KOD, Degrease & cleaning from side of tank		
1	Fuel arrangement	PNG with suitable burner		
2	Initial Heating Time	60 Minute.		
3	Temperature	55°C max.		
VII	Accessories for Pretreatment- Inline			
1	Air agitator: Agitator is consisting of blower which is comprised of suction box with filters & distribution ducting/piping through all pre-treatment tanks.	02 nos. Required Twin lobe Blower motor Capacity: 30 H.P., 2100 m ³ /hr (Minimum)		
2	Nano Filter Suitable 0.5 Micron Filter with SS housing & easy to clean/remove.	Confirm		
3	Oil skimmer Belt Type with Motor Separate Tank & Pump for circulation with main process tank of De-grease.	Required Capacity of Motor: 90 W, 30 rpm (minimum)		
4	DM Plant			
4.1	Capacity (minimum)	2000 L per hour		
4.2	DM Conductivity (minimum)	10 µSiemens		
4.3	PH value	6.5-7		
4.4	DM Make	Amit Aqua/Ion Exchange/Span Hydrotech/Hi-Tech		
VIII	Water Drying Oven (WDO)	Conveyorised (Automatic)		
1	Fuel	PNG		

2	Max. Temp.	140°C		
3	Initial Heating Time of oven	60 Minute (maximum)		
4	Material of construction of Oven	CRCA and HR		
5	Insulation	Rock Wool Density 48 Kg/M ³ (Minimum)		
6	WDO Heating System room Temperature	0-2°C (minimum)		
7	Oven Over-All Dimension	(14715L x3130W x 5825H) mm (minimum)		
8	Oven Working Dimension	(12615L x3030W x 2800H) mm (minimum)		
9	Article Entry & Exit Gate/Cut-out Size	1100 mm(W) x 1700 mm (H) (minimum)		
10	Article entry and exit	Conveyorised		
11	Finish Painting	Inside Heat Resistant Aluminium paint, Outside enamel paint		
12	Safety			
12.1	Pressure control	Confirm		
12.2	Safety door: Which have Proper Provision to escape gases in case of emergency with Pre-Define temperature and Pressure.	Confirm		
12.3	Inspection cum explosion door	Confirm		
13	Indication Lamps & Push Buttons	Confirm		
14	Temperature Indicator and Controller for Oven Temperature PT100 (Thermo-couple type) Sensors for Temperature	Confirm		
15	Temperature Indicator Cum Controller (TIC)	02 no. (minimum)		
16	PT 100 Sensor	01 no. (minimum)		
17	Vent for Oven (natural Exhaust for flue gas)	Confirm		
18	Moist Filter for burner in inlet manifold	Confirm		
19	Blower burner Interlock	Confirm		
20	Oven working	Auto cycle		
IX	Pressurization zone			
1	Description	To provide dust free atmosphere while powder coating, this chamber is provided in which filtered air is delivered at top of booth through duct at specific air velocity.		
2	Blower Pressure	60-65 mm WG		
3	Illumination in Zone	400 to 600 lux		
4	Material	Folded Panels fabricated out of 16 SWG / 2 mm CRCA with View Glass		
5	Air handling unit	Blower and suitable filters which will positively deliver the air inside the zone.		
X	Powder Curing Oven (PCO)			
1	Fuel	PNG		
2	Max. Temp.	220.00 °C. at EMT		
3	Initial Heating Time of oven	Maximum 60 minutes		
4	Material of construction	CRCA and HR		
5	Insulation to be designed in such a manner that Outside surface temperature will be at room temperature	Rock Wool Density Approx. 48 Kg/M ³ . (Minimum)		
6	PCO Heating System room Temperature	0-2°C (minimum)		

7	Finish Paint for Oven	Inside Heat Resistant Aluminum paint, Outside Enamel paint		
8	Entry & Exit Gate Size	1100 mm(W) x 1700 mm (H) (minimum)		
9	Article Entry & Exit	On Conveyor along Camelback type to Prevent Heat Loss		
10	Oven Working Dimension	(15285L x6230W x 2700H) mm (Minimum)		
11	Oven Overall Dimension	(15685L x6630W x 5825H) mm (Minimum)		
12	Safety			
12.1	Pressure control	Confirm		
12.2	Safety door: Which have Proper Provision to escape gases in case of emergency with Pre-Define temperature and Pressure.	Confirm		
12.3	Inspection cum explosion door	Confirm		
13	Indication Lamps & Push Buttons	Confirm		
14	Temperature Indicator Cum Controller for Oven Temperature PT100 (Thermo-couple type)Sensors for Temperature	Confirm		
15	Temperature cum indicator controller (TIC)	02 no. (minimum)		
16	PT 100 Sensor	01 no. (minimum)		
17	Vent for Oven (natural Exhaust for flue gas)	Confirm		
18	Moist Filter for burner in inlet manifold	Confirm		
19	Blower burner Interlock	Confirm		
20	Oven working	Auto cycle		
XI	Conveyor (All across the process)			
1	Type	4-wheel open track		
2	Conveyor speed	2.5 meter/minute		
3	Conveyor length	Minimum 475 meter		
4	Drive	Sprocket/caterpillar type		
5	Take up	Screw/dead weight type		
6	Point load	40 Kg maximum		
XII	Powder coating booth			
1	Description	Automatic booth consisting of reciprocator, auto guns, cyclone recovery system, post filter unit with pulsing and provision of two manual touch up stations with manual gun.		
1.1	No. of auto guns	Minimum 10 on booth (5 on each side) or better		
1.2	Construction of booth	SS-316 panels and MS structure. (With illumination of min. 400 Lux)		
1.3	Vendor to give total colour change time	90 minute (Maximum)		
1.4	Powder Recovery System	Confirm		
1.5	Height sensor (working: no object no spray)	Confirm		
XIII	SCADA (Supervisory Control and Data Acquisition) Based Centralized Control system (The panel body should be Powder Coated) for Indication, Control & Monitoring for all heating tank temperature, pH Value, Level Indicator for solution of all tanks, Water drying Oven temperature, baking oven temperature, working	Confirm		

	of all powder coating gun, Conveyor system.			
1	PC Based controlling the complete system along with Conveyor	Confirm		
2	Other than offline Pre-dip treatment plant, Centralized PC Base Control System should provide single point control to operate all plant activities such as conveyor, ovens, all type of sensors, alarms, blowers.	Confirm		
3	PC Configuration	Confirm		
3.1	High configuration system (i7 Processor or higher)	Confirm		
3.2	RAM	4 GB (minimum)		
3.3	Windows 10 Professional Operating System (Except Windows Home)	Confirm		
3.4	Monitor with suitable HDMI Cables & repeater size as mentioned	02 Set		
3.5	Monitor Size			
3.5.1	19" LED (01 Set)	Confirm		
3.5.2	90" LED (01 Set)	Confirm		
4	Serial Ports/Serial PCI X Cards	02 Set		
5	Wired Ethernet Port	Confirm		
6	Wi-Fi USB	Confirm		
7	Bluetooth USB	Confirm		
C	Component Hanging Fixtures			
	Vendor to design manufacture & supply fixture for Pre-dip & Powder coating & Curing for the products Kit as per drawing (refer drawing Attached)	As mention below Vendor to specify & Confirm		
1	Tricycle Family (Small Part Fixture other than main frame) (TD2C98, TD2C95/96, TD2C79, TD2C38/28 & TD2A65,TD2C48) (Vendor to design single fixture to accommodate all type of Product & its components as mention).	200 Nos		
2	Wheel Chair Family			
2.1	TD2C51, TD2A06, TD2A26, TD2A02 & TD2B37 (Vendor to design single fixture to accommodate all type of Product & its components as mention).	150 Nos		
2.2	Wheel Chair Rough Terrain (TD2C36)	50 nos		
3	Tripod, Tetra Pod & Can etc. Drawing No. : TD 2P 02, TD 2P 04, TD2N82, TD2N85, TD2N86, TD1N70 (Vendor to design single fixture to accommodate all type of Product and its components as mention).	60 nos		
4	Rollator(Size-I & Size-II), Walker, Drawing No.: TD2N85, TD2N86, TD2N82. (Vendor to design single fixture to accommodate all type of Product and its components as mention).	40 nos		
5	Vendor to ensure the fixtures are pre-coated to avoid deposition during coating	Confirm		
6	The Fixture should be made in such a manner that all components of single product may set up in single fixture Vendor to refer attached product drawing for same.	Confirm		

7	Vendor to refer attached fixture drawing for reference and make its own drawing considering the envelope and over-all requirement for all family of product.	Vendor to give fixtures manufacturing drawing for all product & Confirm		
D	Inline Stripping Off Arrangement After powder coating hanging Jigs & fixture will dip into this tank to remove powder particles deposited on hanging Jigs & fixtures.	Qty- 2 nos., MS- 4 mm (Minimum) (Vendor to confirm & Provide Details)		
1	Cleaning Tank	Size: (15345L x 1000W x 1925H) mm , MS- 4 mm (Minimum)		
2	Water Rinse	Size: (15345L x 1000W x 1925H) mm, MS- 4 mm (Minimum)		
3	Tank Heating System	For Fixture cleaning tank from side of tank		
3.1	Fuel arrangement	PNG with suitable burner		
3.2	Initial Heating Time	100-120 Minutes.		
3.3	Temperature	80°C maximum		
E	Make Sheet			
1	Burner	Ecoflam / Riello/FBR Burners/ELCO		
2	Twin-Lobe Blower	Nadi / Everest		
3	Motor	Crompton Greaves/ ABB /Bharat-Bijlee/ Siemens		
4	Powder coating booth with Powder Coating Gun	GEMA / Wagner / Ven Tec		
5	LED Display	Panasonic/LG/Samsung		
6	Main Switch, MCB, Contactor, Over Load Relay, PLC	Siemens/ C&S/L&T		
7	Sensors	Honeywell/Sparkfun/Sushant Enterprise		
8	Cable	Finolex/Havells/RR		
F	General			
1	Other than mentioned any other Required Accessories for Plant (Vendor to provide list)	Specify & Confirm		
2	Cabling (All necessary cables of right size is in Vendor Scope)	From Bus Bar to all Equipment		
3	Exhaust Duct	Insulated till 2 metre from ground		
4	Water Inlet/outlet Piping (All necessary pipes of right size is in Vendor Scope)	At one point near to pre-treatment, further piping will be in supplier scope		
5	PNG Gas Consumption per hour (Piping from gas bank to system is in Vendor scope). (Vendor to note that given consumption is indicative one, Vendor to calculate load as per his design and submit while filling bid.)	120 Kg/Hr (Approx)		
G	Qualification Criteria			
1	In house Installation/Commissioning Team with suitable staff	Confirm & Provide Details		
2	Prior Experience of supplying such systems to manufacturers of M.S. Pipe/ Tubular Structure	Confirm & Provide Details		

	components. Vendor must have done such installation at least 05 nos. such plants during last 05 years Vendor to provide details of such customer along with contact number.			
H	<u>Documentation-</u>			
1	Detailed layout plan and prospect to be given (Area of shop as per attached drawing)	Each documentation three sets in English along with delivery		
2	Operating instruction& Manual			
3	Installation and Commissioning instructions			
4	Time Temperature Record Report			
5	Preventive maintenance instructions			
6	Instruction manual for supplied coolant concentrate and coolant			
7	Detailed invoice and packing list of all items and devices and detailed prospect of machine and all other accessories enclosed in.			
8	List of proposed powder & other consumable required to run the plant			
9	The consumables for Initial fill, prove out are in vendor scope. Other than the consumables for initial fill the following consumables need to be supplied.			
9.1	Chemical for KOD & De-greasing 6Tons along with plant (Vendor to give At-Least 3 make with similar chemical properties)			
9.2	Chemical for De-Rusting 4.5 Tons along with plant (other than chemical require for prove out) Vendor to give At-Least 3 make with similar chemical properties)			
9.3	Chemical for NANO coating – 3Ton (Vendor to give At-Least 3 make with similar chemical properties)			
9.4	Powder for Powder Coating Plant 9 Ton along with plant (Vendor to give At-Least 3 make with similar chemical properties)			
9.5	Chemical for Strip-off System-4.5 Ton (Vendor to give At-Least 3 make with similar chemical properties)			
10	List of necessary spares required to run the plant (Only list is required, Rate not to be quoted in TC-Bid)			
I	<u>Installation & commissioning-</u>			
1	The complete installation and commissioning must be carried out by the supplier at the project site (ALIMCO-Kanpur)	Confirm		
2	Training to be provided during installation, commissioning and prove out at ALIMCO-Kanpur.	Confirm		
2.1	Operator training	28 Days		
2.2	Maintenance course all Inclusive (mechanical, electrical and electronics)	15 Days		
3	Prove Out powder coating of 5 Days planned production of components to be done at ALIMCO Premises. (Refer Attached Product Drawings).	Confirm		
J	<u>General operating condition</u>			
1	3 Phase 415V +/- 10%	Confirm		
2	Frequency 50 Hz +/- 5%	Confirm		
3	Protection level	IP54 or better		
4	System should have capability to handle voltage,	Confirm		

	current and frequency fluctuation, necessary protection to be provided.			
5	Complete electrical system should be tropicalized for Indian condition 5 to 50 degree centigrade temp and RH 100% (Including additional accessories)	Confirm		
K	Service			
1	Detail of authorized Service Partners in India (Name & Address) must be certified by manufacturer and shown in the quotation	Confirm		
L	Warranty/defect Liability:	2 years (Minimum)		
M	Vendor shall consider any other item, (other than mention in Annexure-A) necessary for successful operation & installation of plant, Vendor shall provide list.	Confirm		
	<u>DELIVERY PERIOD INCLUDING INSTALLATION & COMMISSIONING:</u> The delivery, installation & commissioning period of complete Powder Coating Plant at the destination mentioned in Para 1 on page no. 02 of the tender documents will be 10 months for delivery and installation, commissioning & Prove-Out from the date of placement of Purchase Order/work contract.	Confirm		
	<u>WARRANTY/Defect Liability:</u> The entire Powder Coating Plant inclusive of all system/accessories must be covered under warranty for a period of 24 months (minimum) from the date of successful Installation & commissioning.	Confirm		
	<u>NOTE:</u>			
1	6 month hand holding (Vendor to consider 3 days visit per month till 6 month, All expenses will be borne by Vendor)	Confirm		
2	Breakdown calls to be attended within 48 hrs.	Confirm		
3	Supply to be done on Turnkey Basis. ALIMCO shall provide electrical supply point, air supply and water supply near to the place of installation. (Civil Layout will be provided).	Confirm		
4	Civil foundation details and drawings with specifications to be provided by the tenderer.	Confirm		
5	Total power Electrical power consumption (in KW) & Gas Power Consumption (in Kg/hr) to be provided by the tenderer.	Confirm		
6	Layout drawing should be provided in CAD format.	Confirm		
7	Visual control board to be provided for monitoring with alarm signals.	Confirm		
8	ALIMCO may at its discretion decide to visit & verify the facility and validate in case of discrepancy the vendor shall be technically disqualified.	Confirm		
9	All necessary Details as asked in Annexure-A to be duly full-filled failing which Bid shall be technically Rejected.	Confirm		
10.	The Drawing/Layout attached along with details is for standard purpose and should be the minimum qualifying criteria in all aspect. However vendor is free to design its own plan & supply above standard inculcating minimum	Confirm		

	requirement of the plant and if any change should be submitted while filling bid.			
11.	Entire System shall be designed and commissioned for ease of access of all facilities and maintenance.	Confirm		
12.	The Bus bar trunking (BBT) for electricity has been provided at 8.5 meter height. Sufficient suitable cable, cable tray, circuit breaker, fittings to connect the plant & it's accessories from power source is in vendor's scope.	Confirm		
13.	Separate list of spares along with rate, required for smooth functioning of the plant & it's accessories. The list is solely required with respect to future requirements/reference of Plant. Hence total cost of items from the list should not be the part of final price of tender quote.	Confirm		

SPECIFIC CONDITIONS OF SUPPLY:

The tenderer should clearly indicate the following in their offer:

- 1) Installation/Commissioning – details,
- 4). Whether DGS&D or any other State/Central Rate Contract exists for the item offered. Please enclose copy.
- 5). Tenders are required to provide address, e-mail, contact person of local service centre/Nearest Service centre from where service support shall be provided.
- 6). Any other relevant technical details of the offered Plant & its accessories.
- 7). Complete details of infrastructural requirement for the Offered Plant & its accessories i.e.
Ambient working atmosphere requirement
Power connections requirement.
- 8) Tenderer is required to provide a list of parties with their complete postal address with telephone / e-mail. To whom they have supplied similar Plant over the last 5-8 years. The list should clearly indicate the quantity and the model of the Plant to such customers.
- 9) Tenderer is required to give complete details of the training facilities, if available, with their organization for training our technicians and engineers on the use and maintenance of the Whole Plant & its accessories. Details of complimentary training should also be indicated in the offer.
- 10) Tenderer is required to clearly indicate the details of infrastructure of after sales service facility with its location together with the anticipated time of attending complaints after their receipt of complaint in their service center.
- 11) Tenderer should clearly indicate the reasons as to why they consider their Plant & its accessories and their offer to be best for supply to the Corporation. The tenderer should enclose all documentary evidence in support of their claim along with their offer.
- 12) The Plant & its accessories would be required to be supplied and installed in the company premises as specified in Para 1 of the tender document. As such the tenderers should clearly confirm their acceptance to deliver / install and provide after sales service during the warranty period and afterwards at Corporation premises or as the location as specified in the tender document. They are also required to indicate the nearest service point location with address for providing services in respect of the offered Plant & its accessories.
- 13) In case the tenderer desires to provide supplies of add on optional accessories for the effective functioning of the system on complimentary / chargeable basis, he should clearly indicate items along with the terms of supply. The value of the complimentary supplies proposed should be clearly indicated in the offer.
- 14) The tenderer should **necessarily enclose the complete exhaustive literature / Printed catalogue of their offered Plants & its Accessories** indicating full technical details/specifications and special features of their Plants & its accessories together with their make & model, etc.

- 15) In case of existence of a **DGS&D /GEMrate contract or a State/Central Govt. Rate Contract** in respect of the supply of the offered Plants & its accessories, an authenticated copy of the same should also be enclosed along with the offer. The enclosing of a copy of the relevant rate contract would still permit the tenderer to submit a lower competitive offer in which case the corporation would consider only the lower offer for comparison and analysis.
- 16) The tenderers are required to submit exhaustive (anticipated) list of spares likely to be used on chargeable basis during the period of 03 years together with their prices indicating validity period of each spares for our necessary reference and records.
- 18) In case of any problem / trouble / defect after commissioning the local service provider is required to respond / attend the problem within 48 Hrs.
- 19) The repeat orders may be placed up to 100% of quantity of original order where the original order was placed on the supplier selected on the basis of OT only for ordering additional quantity. The repeat order will be placed on same rates and terms as mentioned in initial order.

FORMAT FOR BANK GUARANTEE TOWARDS SECURITY DEPOSIT/PERFORMANCE GUARANTEE

(To be executed by any Nationalised Bank in India, on a Rs. 200 non-judicial stamp paper under bank's covering letter mentioning address of the bank)

In consideration of M/s Artificial Limbs Manufacturing Corporation of India, hereinafter referred to as 'ALIMCO', which expression unless repugnant to the context and meaning thereof shall include its successors and assigns having agreed to exempt M/s _____ (Name of the vender/supplier/contractor) hereinafter referred to as supplier/contractor which expression unless repugnant to the context and meaning thereof shall include its successors and assigns] from depositing with ALIMCO a sum of Rs. _____ towards security / performance guarantee in lieu of the said supplier/contractor having agreed to furnish a bank guarantee for the said sum of Rs. _____ as required under the terms and conditions of contract / work order / purchase order no. _____ dated _____ [hereinafter referred as the order'] placed by ALIMCO on the said supplier / contractor.

We, _____ the bank [hereinafter referred to as 'the bank' which expression shall include Its successors and assigns] do hereby undertake to pay ALIMCO an amount not exceeding Rs. _____ on the demand made by ALIMCO on us due to a breach committed by the said supplier / contractor of the terms and conditions of the order.

We _____ the bank hereby undertakes to pay the amount under the guarantee without any demur merely on a demand from ALIMCO stating that there is a breach by the supplier / contractor of any of the terms and conditions contained in the order or by the reasons of the supplier's / contractor's failure to comply with the terms and conditions as stipulated in the order or amendment(s) thereto.

The demand made on the bank shall be conclusive as to the breach of the terms and conditions of the order and as regard to the amount due and payable by the bank under this guarantee, notwithstanding any dispute or disputes raised by the said supplier / contractor regarding the validity of such breach and we agree to pay the amount so demanded by ALIMCO without any demur. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

We, _____ the bank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said order and that it shall continue to be enforceable till the dues of ALIMCO under or by virtue of the said order have been fully paid and its claim satisfied or discharged or till ALIMCO certifies that the terms and conditions of the order have been fully and properly carried out by the supplier / contractor and accordingly discharge the guarantee.

We _____ the bank, undertake to pay to ALIMCO any money so demanded notwithstanding any dispute or disputes raised by the said supplier / contractor in any suit or proceedings pending before any court or tribunal relating thereto as our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be valid discharge of our liability for payment there under and the said supplier / contractor shall have no claim against us for making such payment.

We _____ the bank further agree that ALIMCO shall have full liberty, without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions of the order or to extend time of performance by the said supplier / contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the ALIMCO against the said supplier / contractor and to forbear or enforce any of the terms and conditions relating to the order and shall not be relieved from our liability by reason of any such variation or extension being granted to the said supplier / contractor or for any forbearance, act or omission on the part of ALIMCO or any indulgence by ALIMCO to the supplier / contractor or by any such matter or thing whatsoever which under the law relating to sureties would but for this provisions have effect of so relieving us. Our liability under this guarantee is restricted to Rs. _____ and shall remain in force up to _____ unless demand or claim under this guarantee is made on us in writing within 3 months from the date of expiry viz. _____. We shall be discharged from all liabilities under this guarantee thereafter.

This guarantee will not discharged due to change in the constitution in the bank or the said supplier / contractor.

The bank hereby agrees to address all the future correspondence in regard to this bank guarantee to Chairman & Managing Director, Artificial Limbs Manufacturing Corporation of India.

We, _____ the bank lastly undertake not to revoke this guarantee during its currency except with the previous consent of ALIMCO in writing.

Signed on the _____ day of

Witness

**Signature
For the Bank**

FORMAT FOR BANK GUARANTEE TOWARDS SECURITY DEPOSIT/ADVANCE

(To be executed by any Nationalised Bank in India, on a Rs. 200 non-judicial stamp paper under bank's covering letter mentioning address of the bank)

In consideration of M/s Artificial Limbs Manufacturing Corporation of India, hereinafter referred to as 'ALIMCO', which expression unless repugnant to the context and meaning thereof shall include its successors and assigns having agreed to exempt M/s _____ (Name of the vender/supplier/contractor) hereinafter referred to as supplier/contractor which expression unless repugnant to the context and meaning thereof shall include its successors and assigns] from depositing with ALIMCO a sum of Rs. _____ towards security / performance guarantee in lieu of the said supplier/contractor having agreed to furnish a bank guarantee for the said sum of Rs. _____ as required under the terms and conditions of contract / work order / purchase order no. _____ dated _____ [hereinafter referred as the order'] placed by ALIMCO on the said supplier / contractor.

We, _____ the bank [hereinafter referred to as 'the bank' which expression shall include Its successors and assigns] do hereby undertake to pay ALIMCO an amount not exceeding Rs. _____ on the demand made by ALIMCO on us due to a breach committed by the said supplier / contractor of the terms and conditions of the order.

We _____ the bank hereby undertakes to pay the amount under the guarantee without any demur merely on a demand from ALIMCO stating that there is a breach by the supplier / contractor of any of the terms and conditions contained in the order or by the reasons of the supplier's / contractor's failure to comply with the terms and conditions as stipulated in the order or amendment(s) thereto.

The demand made on the bank shall be conclusive as to the breach of the terms and conditions of the order and as regard to the amount due and payable by the bank under this guarantee, notwithstanding any dispute or disputes raised by the said supplier / contractor regarding the validity of such breach and we agree to pay the amount so demanded by ALIMCO without any demur. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

We, _____ the bank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said order and that it shall continue to be enforceable till the dues of ALIMCO under or by virtue of the said order have been fully paid and its claim satisfied or discharged or till ALIMCO certifies that the terms and conditions of the order have been fully and properly carried out by the supplier / contractor and accordingly discharge the guarantee.

We _____ the bank, undertake to pay to ALIMCO any money so demanded notwithstanding any dispute or disputes raised by the said supplier / contractor in any suit or proceedings pending before any court or tribunal relating thereto as our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be valid discharge of our liability for payment there under and the said supplier / contractor shall have no claim against us for making such payment.

We _____ the bank further agree that ALIMCO shall have full liberty, without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions of the order or to extend time of performance by the said supplier / contractor from time to time or to

postpone for any time or from time to time any of the powers exercisable by the ALIMCO against the said supplier / contractor and to forbear or enforce any of the terms and conditions relating to the order and shall not be relieved from our liability by reason of any such variation or extension being granted to the said supplier / contractor or for any forbearance, act or omission on the part of ALIMCO or any indulgence by ALIMCO to the supplier / contractor or by any such matter or thing whatsoever which under the law relating to sureties would but for this provisions have effect of so relieving us. Our liability under this guarantee is restricted to Rs. _____ and shall remain in force up to _____ unless demand or claim under this guarantee is made on us in writing within 3 months from the date of expiry viz. _____. We shall be discharged from all liabilities under this guarantee thereafter.

This guarantee will not discharged due to change in the constitution in the bank or the said supplier / contractor.

The bank hereby agrees to address all the future correspondence in regard to this bank guarantee to Chairman & Managing Director, Artificial Limbs Manufacturing Corporation of India.

We, _____ the bank lastly undertake not to revoke this guarantee during its currency except with the previous consent of ALIMCO in writing.

Signed on the _____ day of

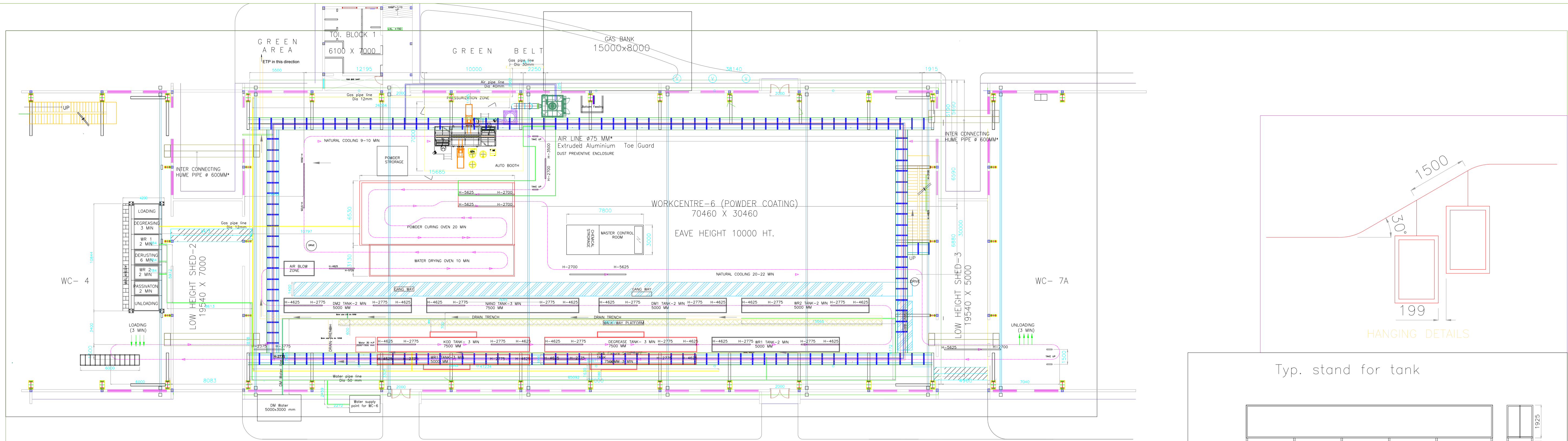
Witness

**Signature
For the Bank**

13	Installation & Commissioning Charges including Civil, Electrical work on turnkey basis for satisfactory commissioning of the whole plant (if any)			1	Set									
14	Supply of any other additional items (other than specified at Annexure-A) which are necessarily required for satisfactory operation of the whole plant			1	Set									
Total (in Rs.) F.O.R ALIMCO,Kanpur														
Total in Words														

Note:

1. The rates should be separately quoted for supplies to ALIMCO HQ or to its others units, as the case may be ,
2. Giving HSN Code is mandatory and the the bills after placement of order should mention the same HSN Code.
3. Providing correct HSN Code is the responsibility of the vendor and ALIMCO is no way responsible for any subsequent interpretation/order by the Tax authorities.



DM WATER PIPELINE- 60M
 NORMAL Water pipe line- 130M (NB-50)
 GAS PIPELINE- 200 M
 Drainage Pipe- 240M (NB-100)

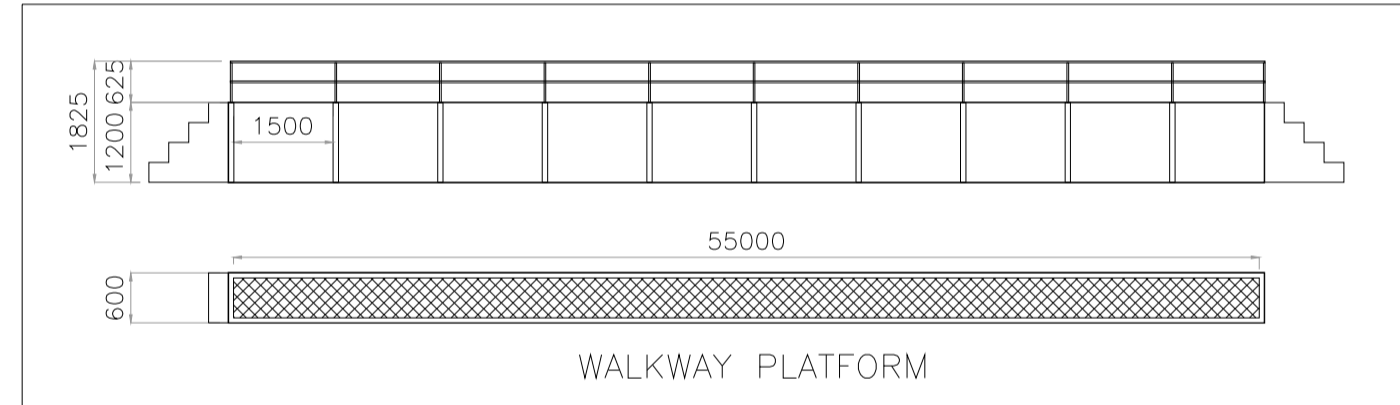
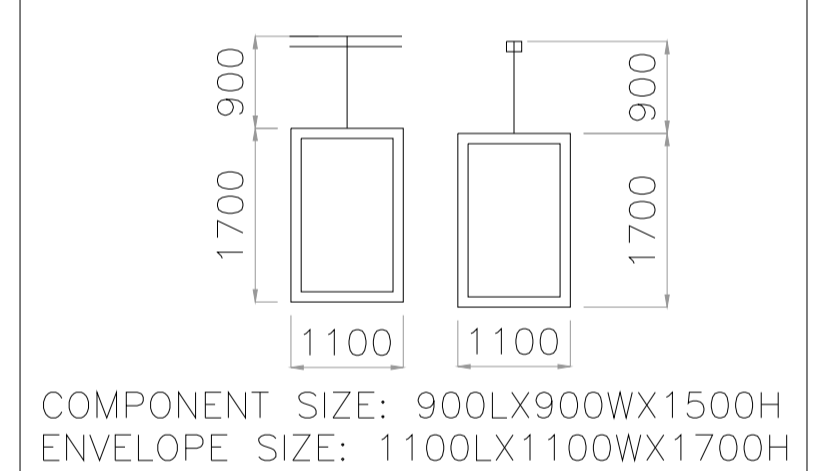
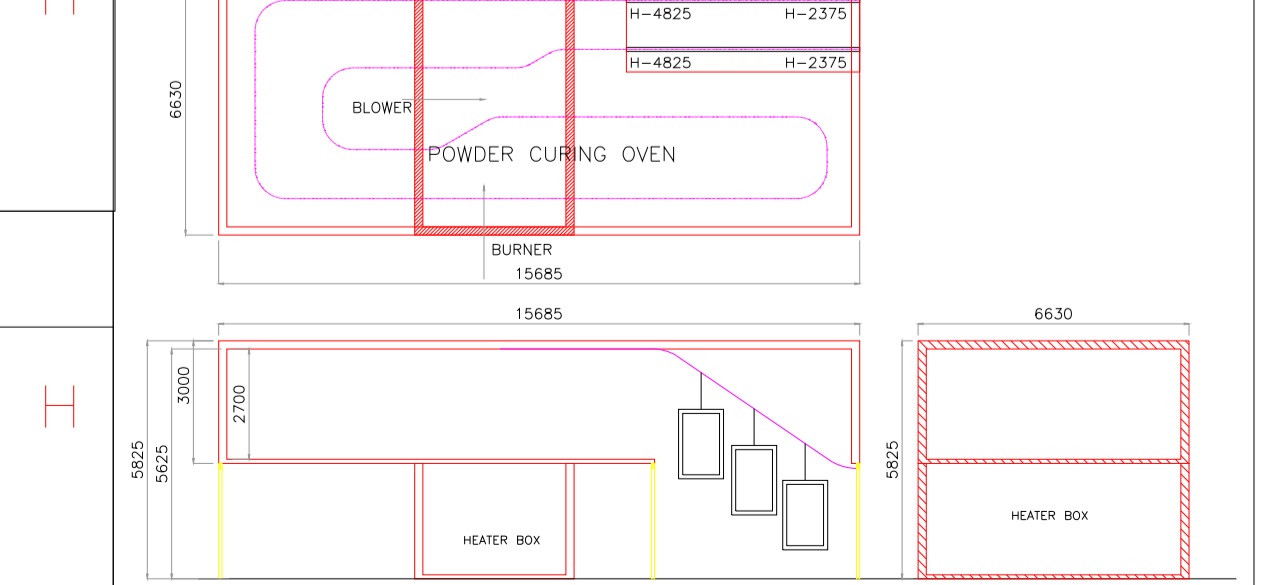
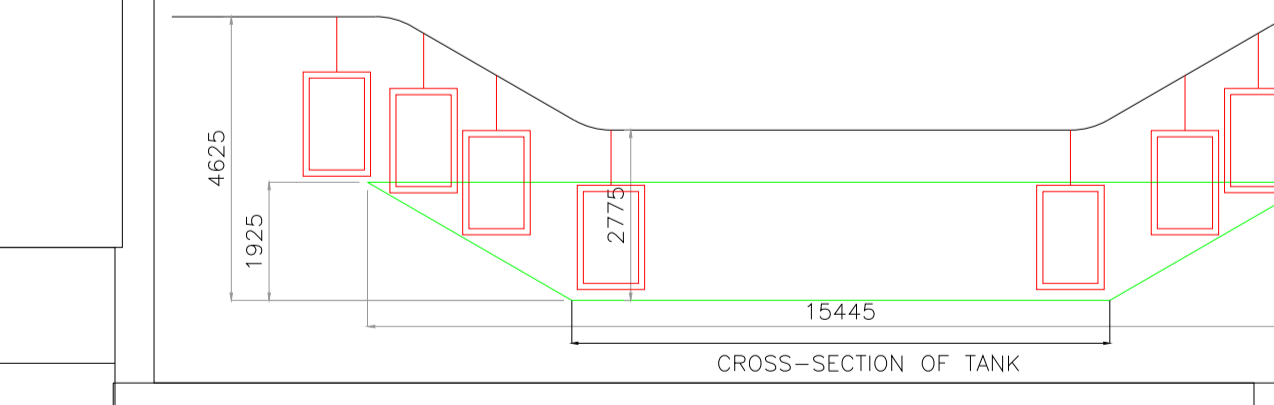
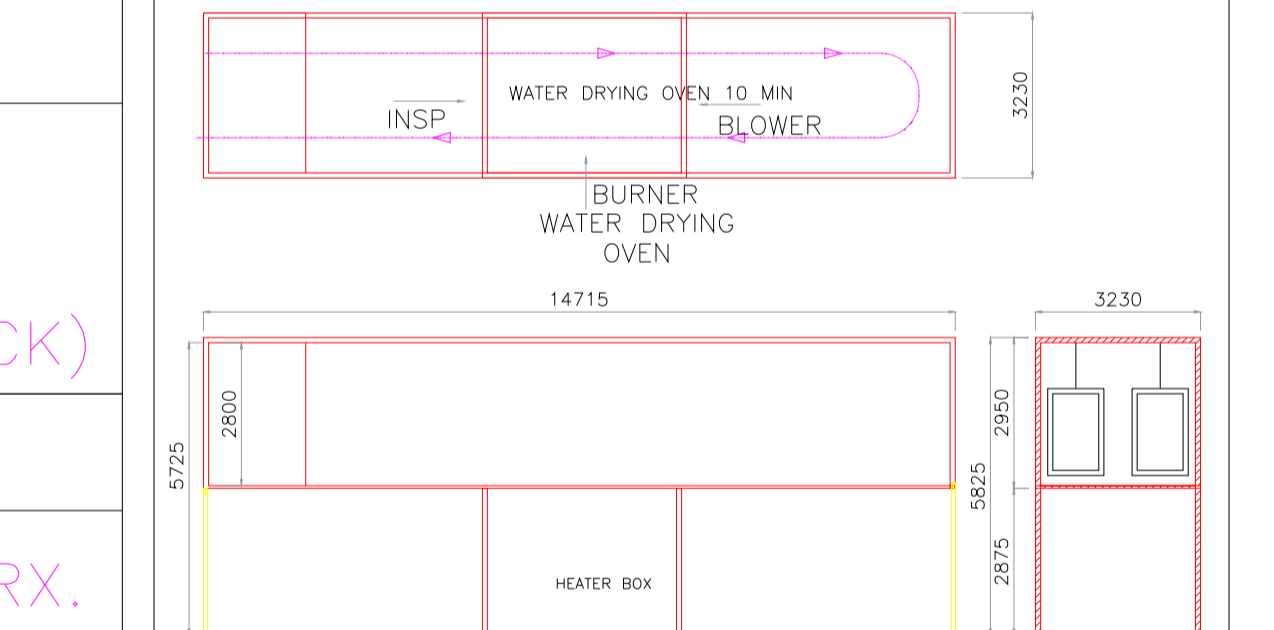
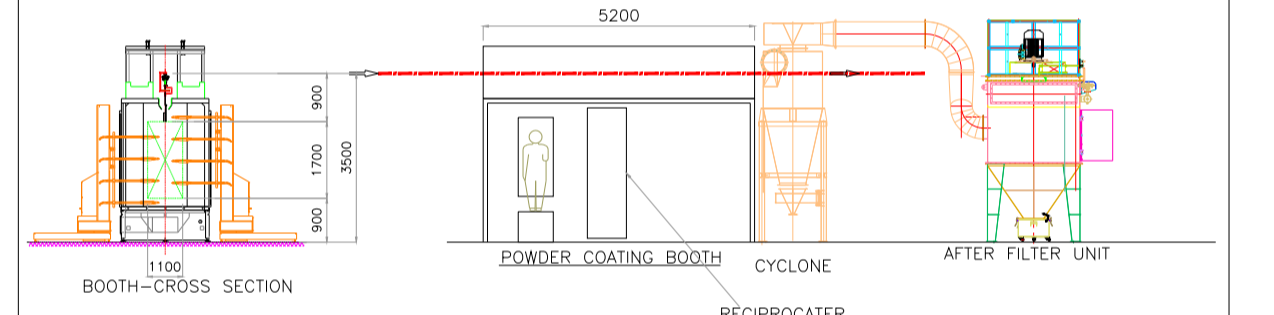
WATER PIPELINE- GREEN COLOR
 GAS PIPELINE- YELLOW COLOR
 AIR PIPELINE- BLUE COLOR

POWDER COATING BOOTH
RECIPROCATOR WITH AUTO GUNS (BACK TO BACK)
MANUAL TOUCH UP (BACK TO BACK)
OVERHEAD CONVEYOR
 CONVEYOR LENGTH 475 MTRS APRX.
 ARTICLE PITCH :- 1500 MM.
 CONVEYOR SPEED :- 2.5 M/MIN.
 DRIVE UNIT :- SPROCKET TYPE.
 TAKE UP UNIT :- SCREW TYPE.

POWDER CURING OVEN-
 SIZE 15285 L X 6230 W X 2700 H
 HEATER BOX AT BOTTOM OF OVEN
 CONV. INSIDE OVEN- 50 MTR

WATER DRYING OVEN-
 SIZE 12615 L X 3030 W X 2800 H
 HEATER BOX AT BOTTOM OF OVEN
 CONV. INSIDE OVEN-25MTR

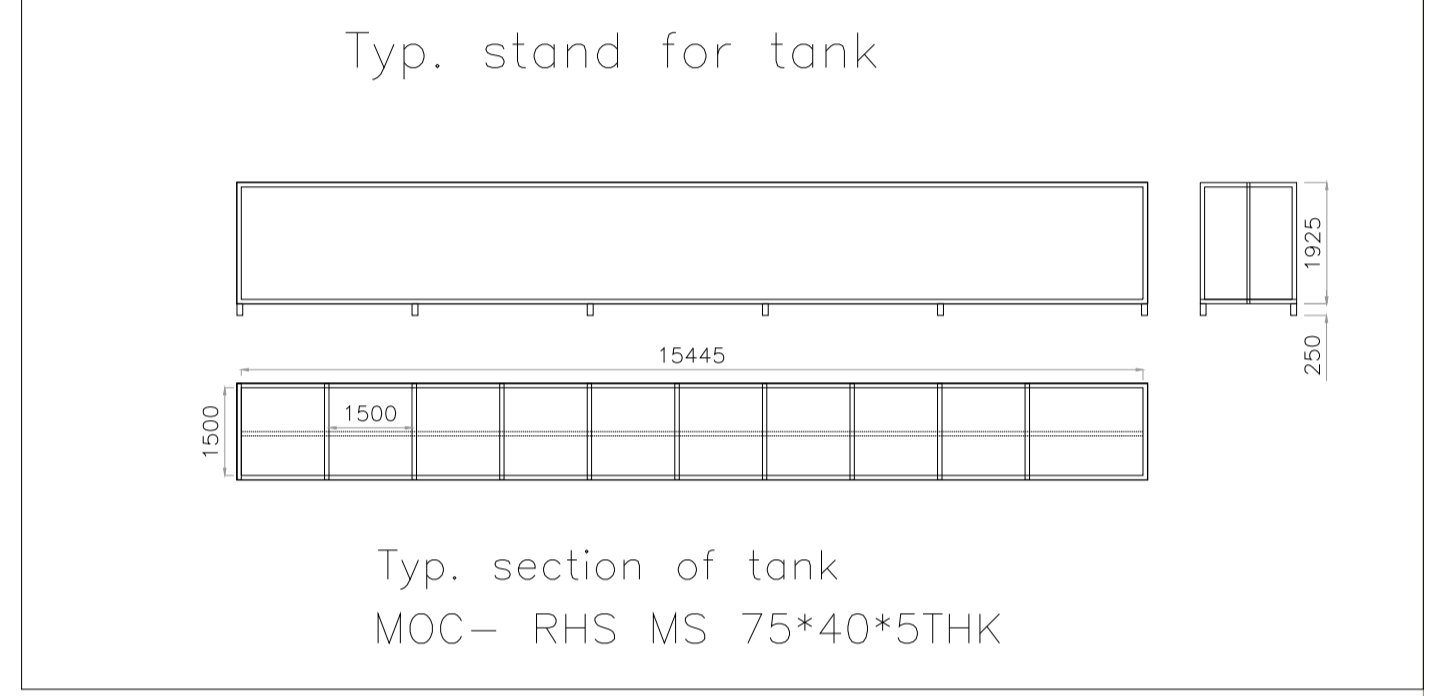
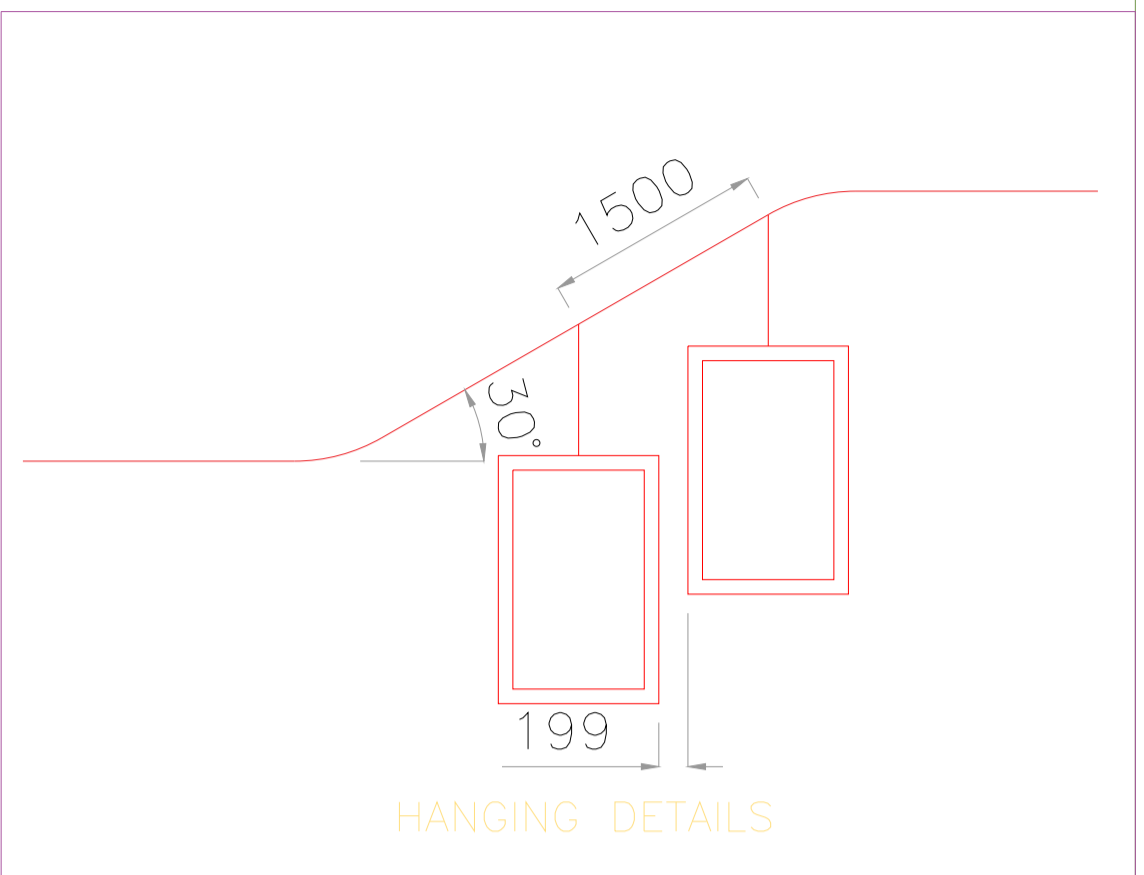
DERUSTING LINE (OFFLINE)
 TANK SIZE:2350L X 1300W X 2150H



MATERIAL FOR WALKWAY PLATFORM:
 1. MS SHS 50X50X5T
 2. MS ISA 35X35X5T
 3. GRP GRATING 30T
 4. MS PIPE 20 NB

OFFLINE PLANT PROCESS

NO.	PROCESS	TIMING	TEMP
01.	LOADING	--	AMB.
02.	DERUSTING	5 MIN	AMB.
03.	WR1	2 MIN	AMB.
04.	WR2	2 MIN	AMB.
05.	UNLOADING	--	AMB.

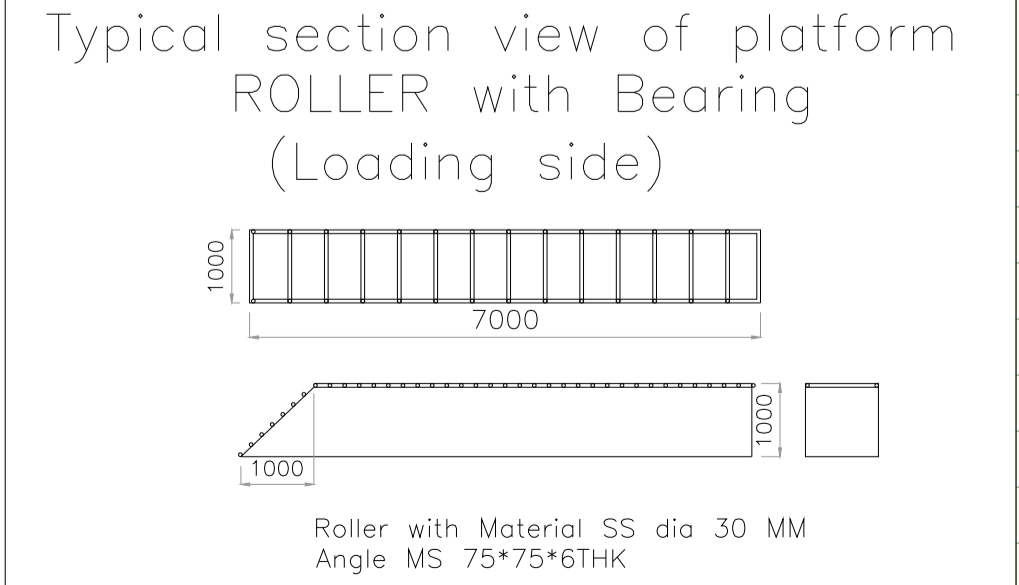


Note: 1. All dimensions are in MM only.
 2. The dimensions given is indicative.
 3. Given quantity is approximate.

PLANT PROCESS

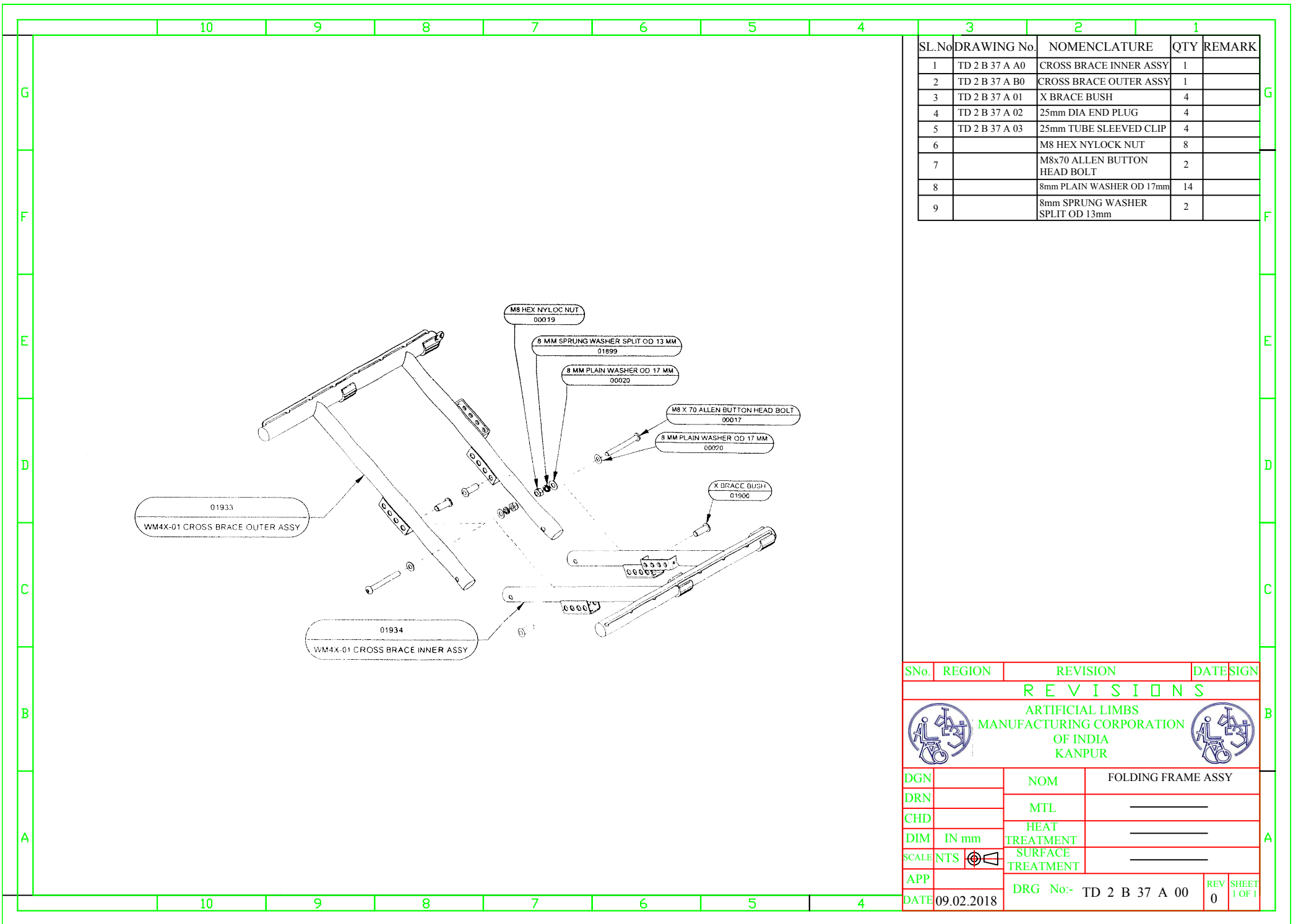
NO.	PROCESS	TIMING	TEMP
01.	LOADING	--	AMB.
02.	KOD	3 MIN	55°C
03.	DEGREASE	3 MIN	55°C
04.	WR1	2 MIN	AMB.
05.	WR2	2 MIN	AMB.
06.	DM1	2 MIN	AMB.
07.	NANO	3 MIN	AMB.
08.	DM2	2 MIN	AMB.
09.	WATER DRYING OVEN	10 MIN	110°C
10.	POWDER COATING BOOTH	---	AMB.
11.	POWDER CURING OVEN	20 MIN	200°C
12.	UNLOADING	---	AMB.

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA





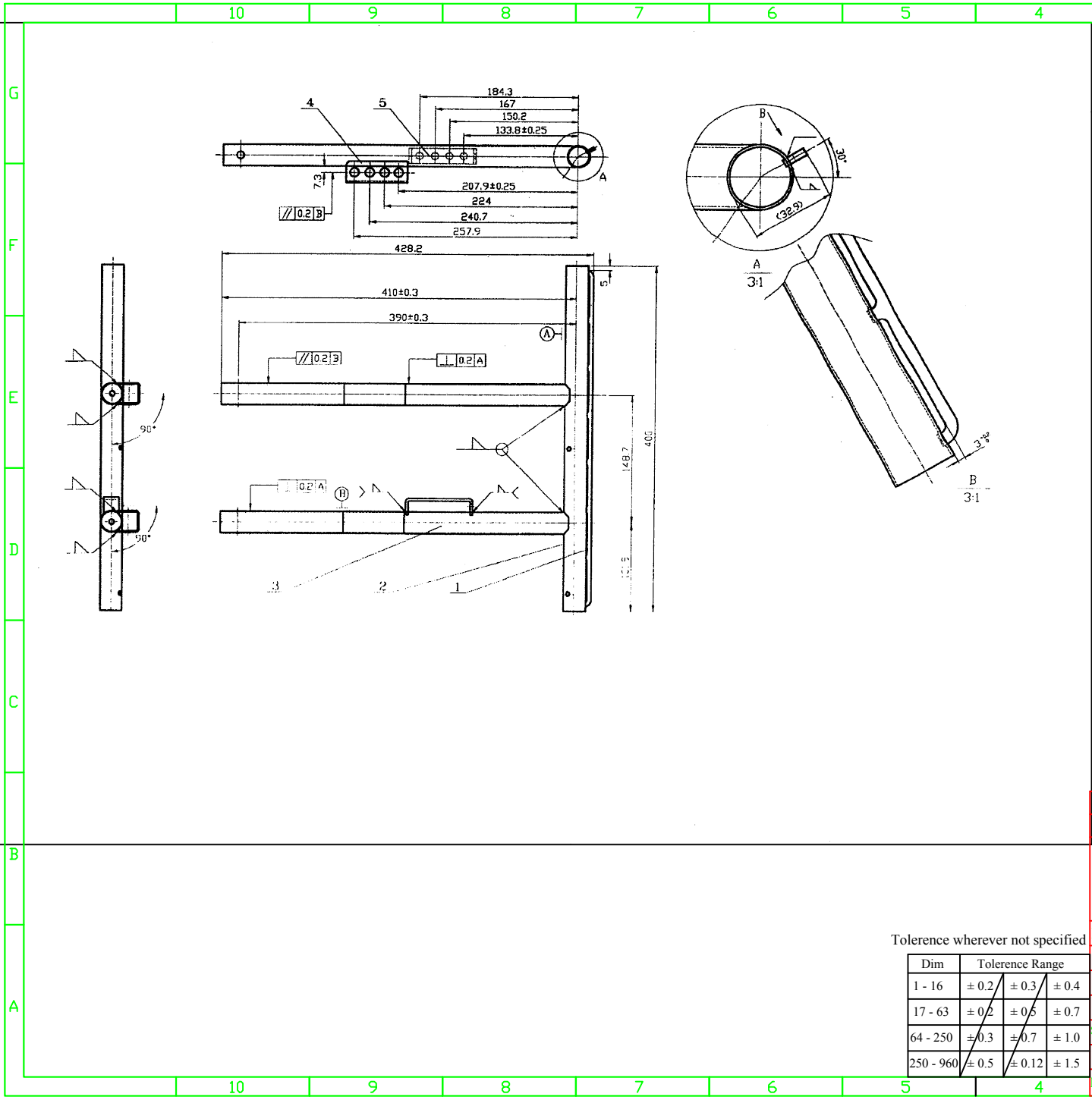
SCALE	DRAWN BY:	CHECKED	APPROVED.	769	TITLE:- LAYOUT FOR POWDER COATING PLANT INCORPORATED IN CIVIL
1:1	VIVEK	RONIT	JBR		
DATE :- 20/09/2018				REV :- 01	DRG.NO. AL/769/LR/R1
01	CHANGE OF CONVEYOR LENGTH	SNS	28/7	ALL DIMNS. ARE IN MM DO NOT SCALE THE DRAWING	
NO.	CHANGE OF RECORD	SIGN.	DATE		

TD2B37000



SL.No	DRAWING No.	NOMENCLATURE	QTY	REMARK
1	TD 2 B 37 A A0	CROSS BRACE INNER ASSY	1	
2	TD 2 B 37 A B0	CROSS BRACE OUTER ASSY	1	
3	TD 2 B 37 A 01	X BRACE BUSH	4	
4	TD 2 B 37 A 02	25mm DIA END PLUG	4	
5	TD 2 B 37 A 03	25mm TUBE SLEEVED CLIP	4	
6		M8 HEX NYLOCK NUT	8	
7		M8x70 ALLEN BUTTON HEAD BOLT	2	
8		8mm PLAIN WASHER OD 17mm	14	
9		8mm SPRUNG WASHER SPLIT OD 13mm	2	

SN.	REGION	REVISION	DATE	SIGN
REVISIONS				
 ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR 				
DGN		NOM	FOLDING FRAME ASSY	
DRN		MTL	_____	
CHD		HEAT	_____	
DIM	IN mm	TREATMENT	_____	
SCALE	NTS	SURFACE TREATMENT	_____	
APP		DRG No:- TD 2 B 37 A 00	REV	SHEET
DATE	09.02.2018		0	1 OF 1



SL.No	DRAWING No.	NOMENCLATURE	QTY	REMARK
1	TD 2 B 37 A A1	STRAP MOUNTING MULTIPLE	1	
2	TD 2 B 37 A A2	X BRACE SEAT TUBE INNER	1	
3	TD 2 B 37 A A3	CROSS BRACE TUBE	2	
4	TD 2 B 37 A A4	X BRACE MAIN PIVOT BRACKET 2		
5	TD 2 B 37 A A5	X BRACE LOCK OUT PIVOT BRACKET	1	

SNo.	REGION	REVISION	DATE	SIGN
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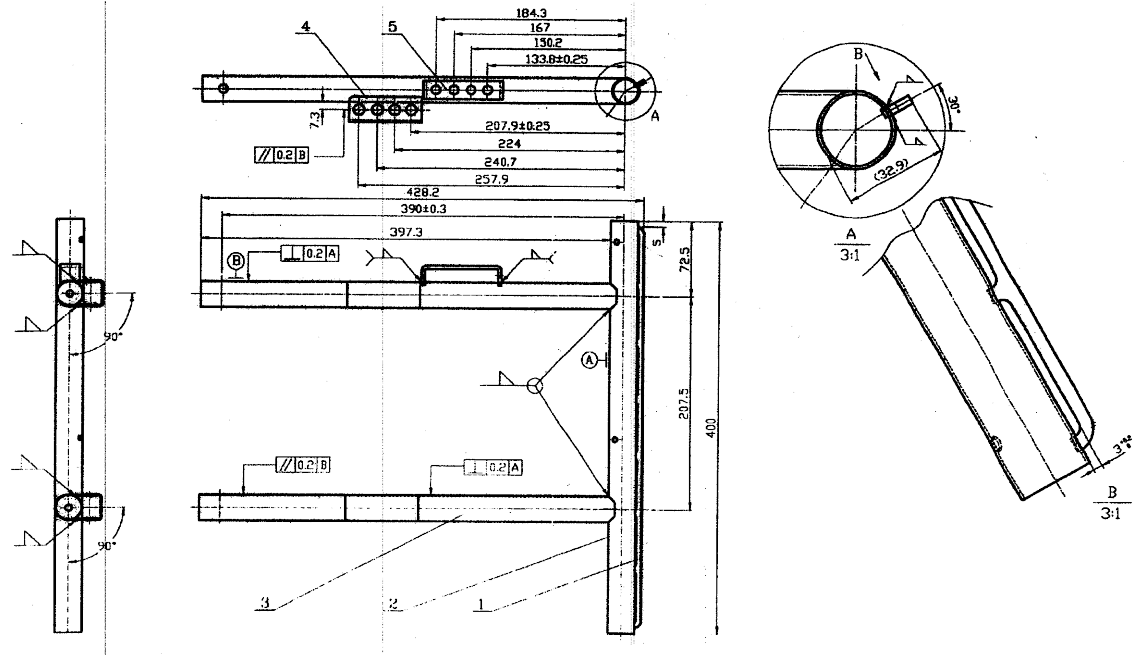
REVISIONS



DGN		NOM	CROSS BRACE INNER ASSY
DRN		MTL	_____
CHD		HEAT	_____
DIM	IN mm	TREATMENT	_____
SCALE	NTS	SURFACE TREATMENT	_____
APP		DRG No:- TD 2 B 37 A A0	REV SHEET 1 OF 1
DATE	09.02.2018		

Tolerance wherever not specified



Dim	Tolerance Range		
1 - 16	± 0.2	± 0.3	± 0.4
17 - 63	± 0.2	± 0.5	± 0.7
64 - 250	± 0.3	± 0.7	± 1.0
250 - 960	± 0.5	± 1.2	± 1.5

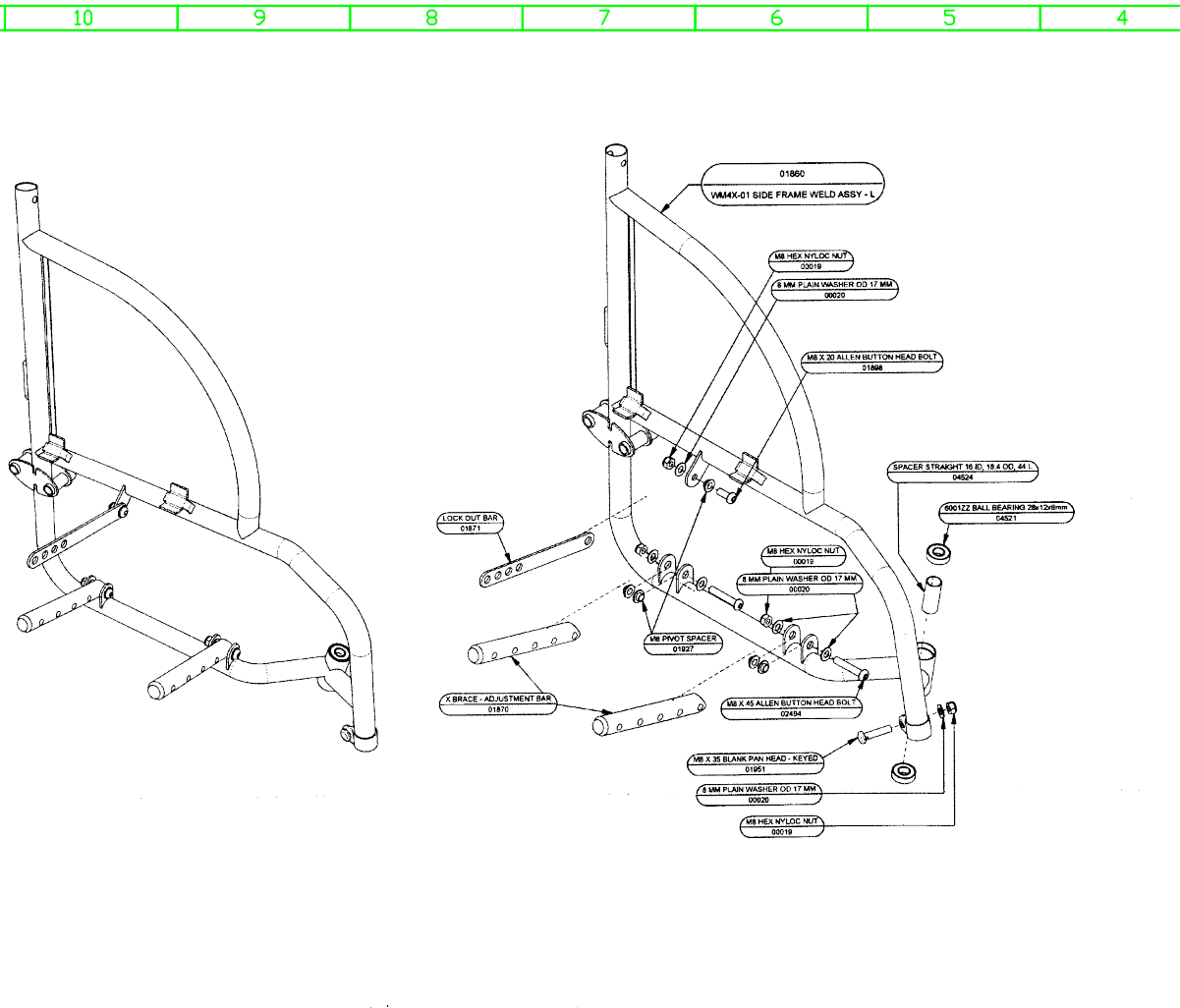


SL.No	DRAWING No.	NOMENCLATURE	QTY	REMARK
1	TD 2 B 37 A A1	X BRACE SEAT TUBE OUTER	1	
2	TD 2 B 37 A B1	STRAP MOUNTING MULTIPLE	1	
3	TD 2 B 37 A A3	CROSS BRACE TUBE	2	
4	TD 2 B 37 A A4	X BRACE MAIN PIVOT BRACKET	2	
5	TD 2 B 37 A A5	X BRACE LOCK OUT PIVOT BRACKET	1	



Tolerance wherever not specified

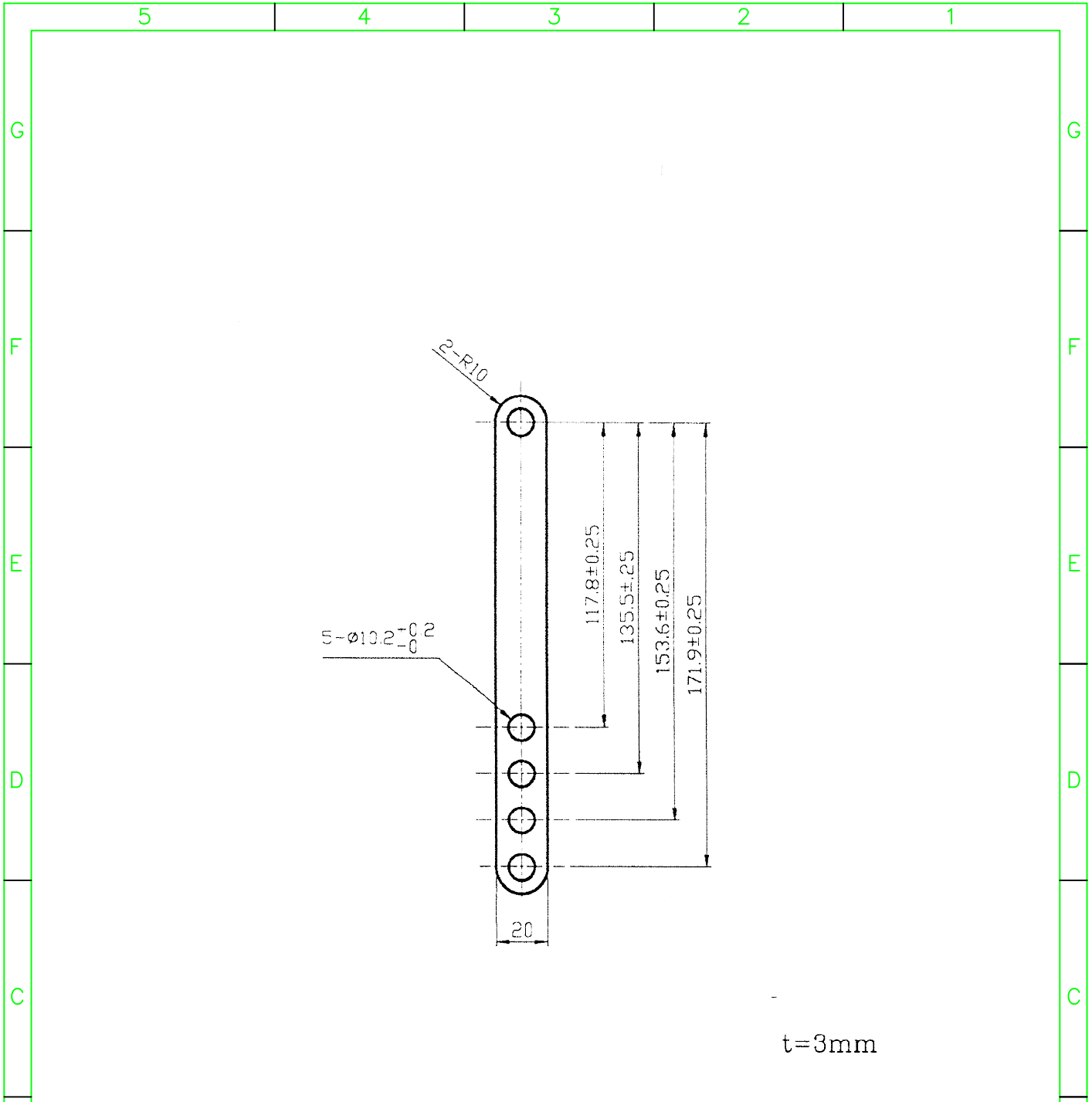
Dim	Tolerance Range		
1 - 16	±0.2	±0.3	±0.4
17 - 63	±0.2	±0.5	±0.7
64 - 250	±0.3	±0.7	±1.0
250 - 960	±0.5	±1.2	±1.5

SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
 ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR 				
DGN		NOM	CROSS BRACE OUTER TUBE	
DRN		MTL	_____	
CHD		HEAT	_____	
DIM	IN mm	TREATMENT	_____	
SCALE	NTS	SURFACE TREATMENT	_____	
APP		DRG No:- TD 2 B 37 A B0	REV	SHEET
DATE	09.02.2018		0	1 OF 1



SL.No	DRAWING No.	NOMENCLATURE	QTY	REMARK
1	TD 2 B 37 B A0	SIDE FRAME WELD ASSY L	1	
2	TD 2 B 37 B 03	X BRACE ADJUSTABLE BAR	2	
3	TD 2 B 37 B 04	LOCK OUT BAR	1	
4	TD 2 B 37 B 05	M8 PIVOT SPACER	7	
5	TD 2 B 37 B 06	M8x35 BLANK PAN HEAD	1	
6	TD 2 B 37 B 07	SPACER STRAIGHT	1	
7	TD 2 B 37 B 08	8mm SADDLE WASHER	8	
8		6001ZZ BALL BEARING	2	
9		M8 HEX NYLOCK NUT	4	
10		M8x20 ALLEN BUTTON HEAD BOLT	3	
11		M8x40 ALLEN BUTTON HEAD BOLT	4	
12		M8x45 ALLEN BUTTON HEAD BOLT	2	
13		8mm PLAIN WASHER OD 17mm	8	

SN.No.	REGION	REVISION	DATE	SIGN
REVISIONS				
 ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR 				
DGN		NOM	SIDE FRAME ASSY - L	
DRN		MTL	_____	
CHD		HEAT	_____	
DIM	IN mm	TREATMENT	_____	
SCALE	NTS	SURFACE TREATMENT	_____	
APP				
DATE	09.02.2018	DRG No:- TD 2 B 37 B 00	REV 0	SHEET 1 OF 1



$t=3\text{mm}$

SNNo.	REGION	REVISION ED	DATE	SIGN
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REVISIONS



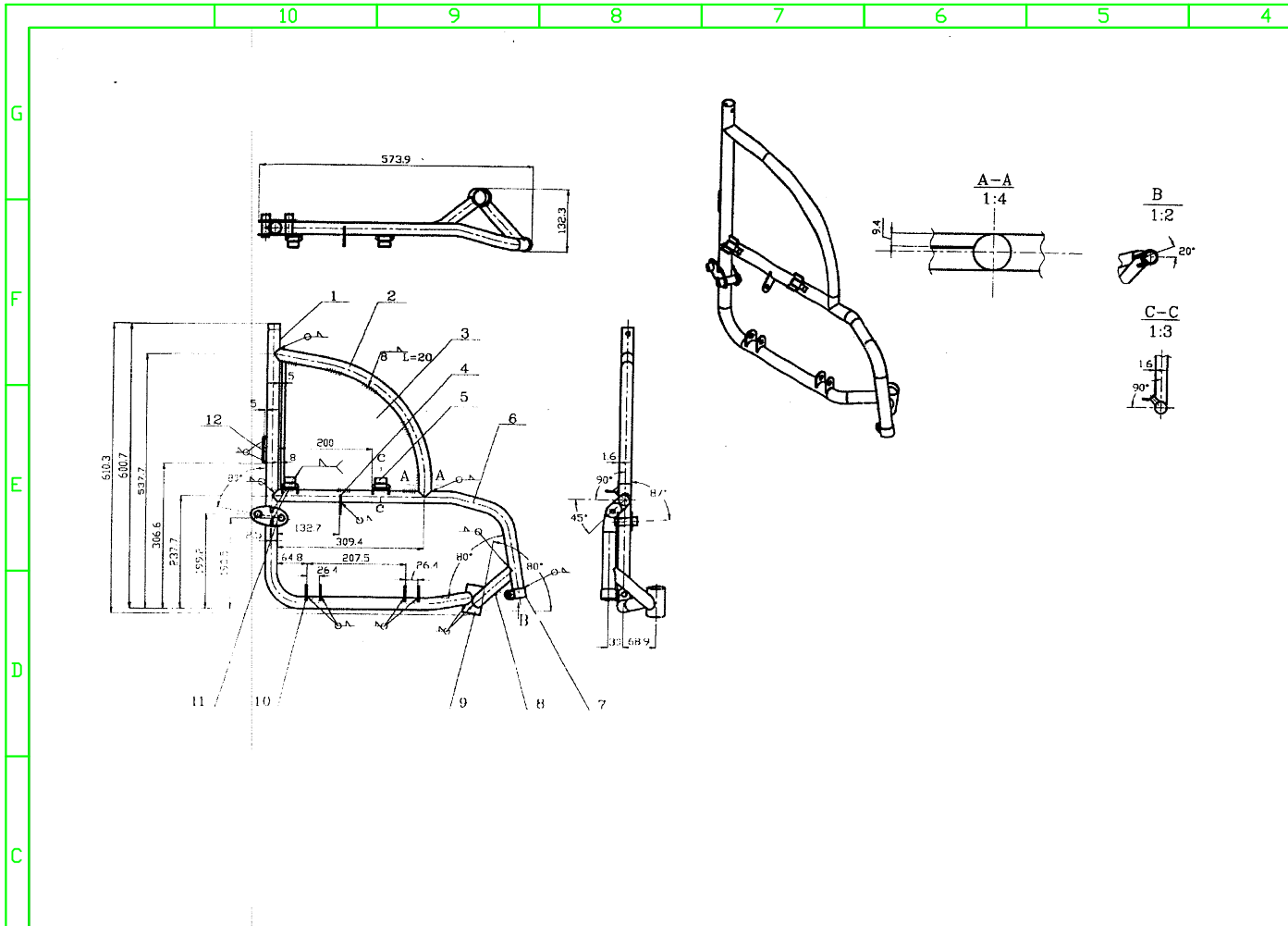
ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR





DGN		NOM	LOCK OUT BAR	
DRN		MTL	STAINLESS STEEL (JIS G4303) SUS316	
CHD		HEAT TREATMENT	_____	
DIM	IN mm	SURFACE TREATMENT	_____	
SCALE	NTS	APP	DRG No:- TD 2 B 37 B 04	
DATE	09.02.2018	REV	0	SHEET 10F1

Tolerance wherever not specified

Dim	Tolerance Range		
1 - 16	± 0.2	± 0.3	± 0.4
17 - 63	± 0.2	± 0.5	± 0.7
64 - 250	± 0.3	± 0.7	± 1.0
250 - 960	± 0.5	± 0.12	± 1.5

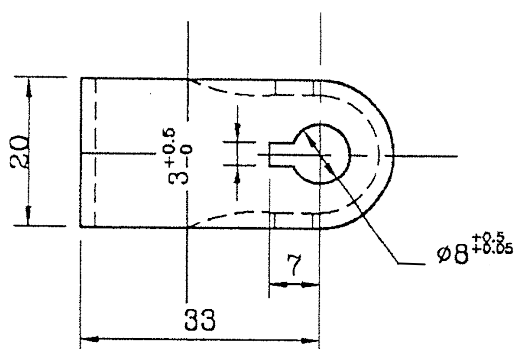
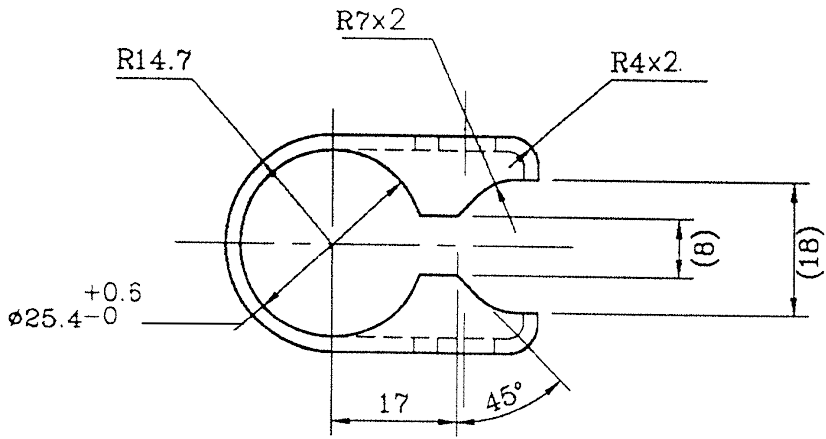


SL.No	DRAWING No	NOMENCLATURE	QTY	REMARK
1	TD 2 B 37 B A1	BACK REST TUBE	1	
2	TD 2 B 37 B A2	ARM REST TUBE	1	
3	TD 2 B 37 B A3	SIDE GUARD - L	1	
4	TD 2 B 37 B A4	LOCKOUT BAR/FRAME PIVOT	1	
5	TD 2 B 37 B A5	SUPPORT CUP GENERIC	2	
6	TD 2 B 37 B A6	TOP TUBE SIDE FRAME - L	1	
7	TD 2 B 37 B A7	FOOT REST HEIGHT CLAMP	1	
8	TD 2 B 37 B A8	CASTOR MOUNT TUBE	1	
9	TD 2 B 37 B A9	CASTOR BARREL TWO HOLES	1	
10	TD 2 B 37 B 01	X-BRACE/FRAME PIVOT	4	
11	TD 2 B 37 B B0	AXLE MOUNTING WELDMENT-L	1	
12	TD 2 B 37 B 02	STRAP MOUNTING - SINGLE	1	

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REVISIONS				
 ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR 				
DGN		NOM	SIDE FRAME WELD ASSY - L	
DRN		MTL	_____	
CHD		HEAT	_____	
DIM	IN mm	TREATMENT	_____	
SCALE	NTS	SURFACE TREATMENT	_____	
APP		DRG No:- TD 2 B 37 B A0	REV	SHEET
DATE	09.02.2018		0	1 OF 1

Tolerance wherever not specified

Dim	Tolerance Range		
1 - 16	± 0.2	± 0.3	± 0.4
17 - 63	± 0.2	± 0.5	± 0.7
64 - 250	± 0.3	± 0.7	± 1.0
250 - 960	± 0.5	± 1.2	± 1.5



t: 2 mm

SNNo.	REGION	REVISION	DATE	SIGN
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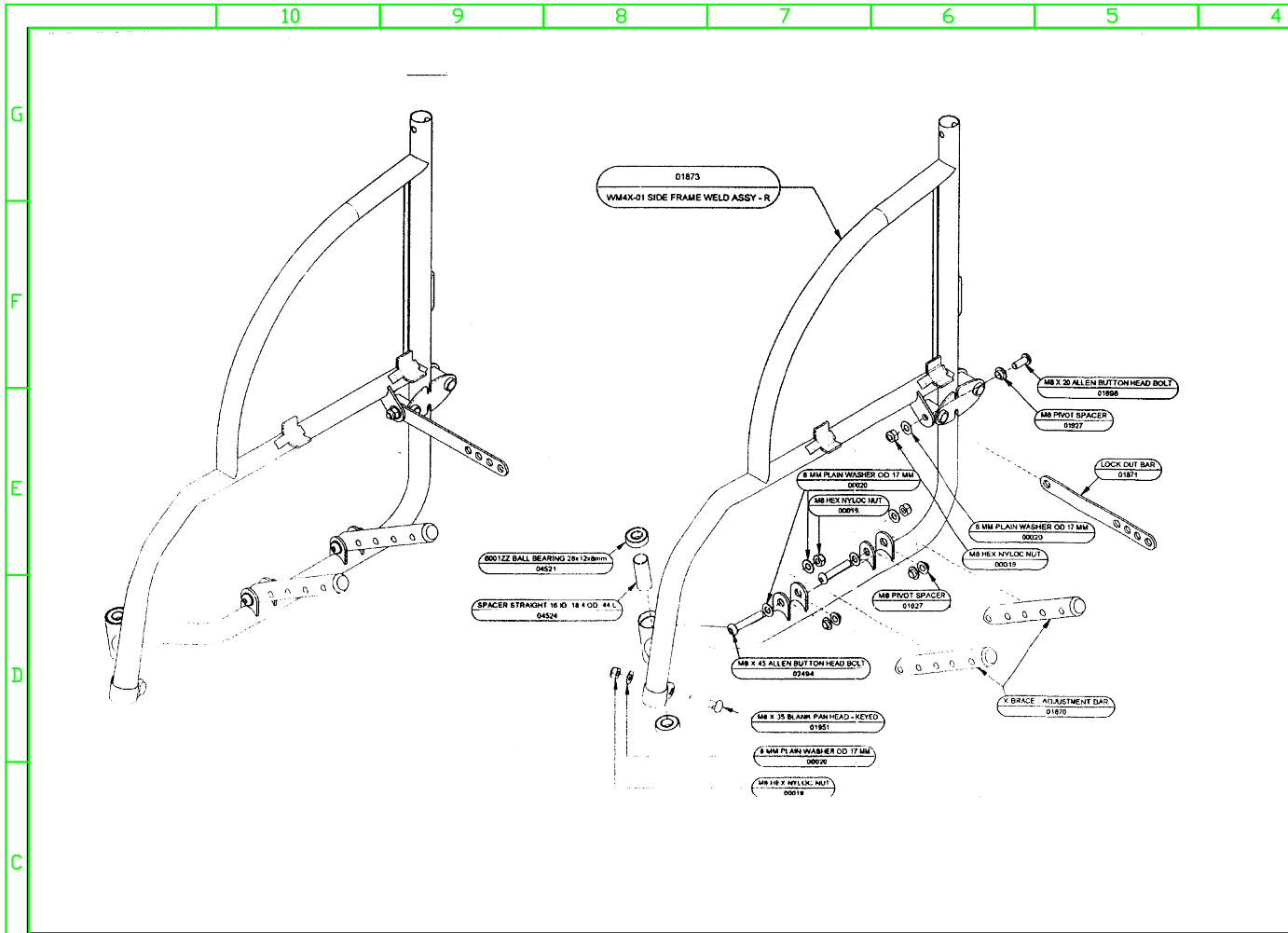
ARTIFICIAL LIMBS
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OF INDIA
KANPUR





DGN	NOM	FOOTREST HEIGHT CLAMP		
DRN	MTL	SHEET STEEL (JIS G313) SPCC		
CHD	HEAT TREATMENT	_____		
DIM	IN mm	_____		
SCALE	NTS	SURFACE TREATMENT _____		
APP	DRG No:- TD 2 B 37 B A7	REV	SHEET	
DATE	09.02.2018	0	10F1	

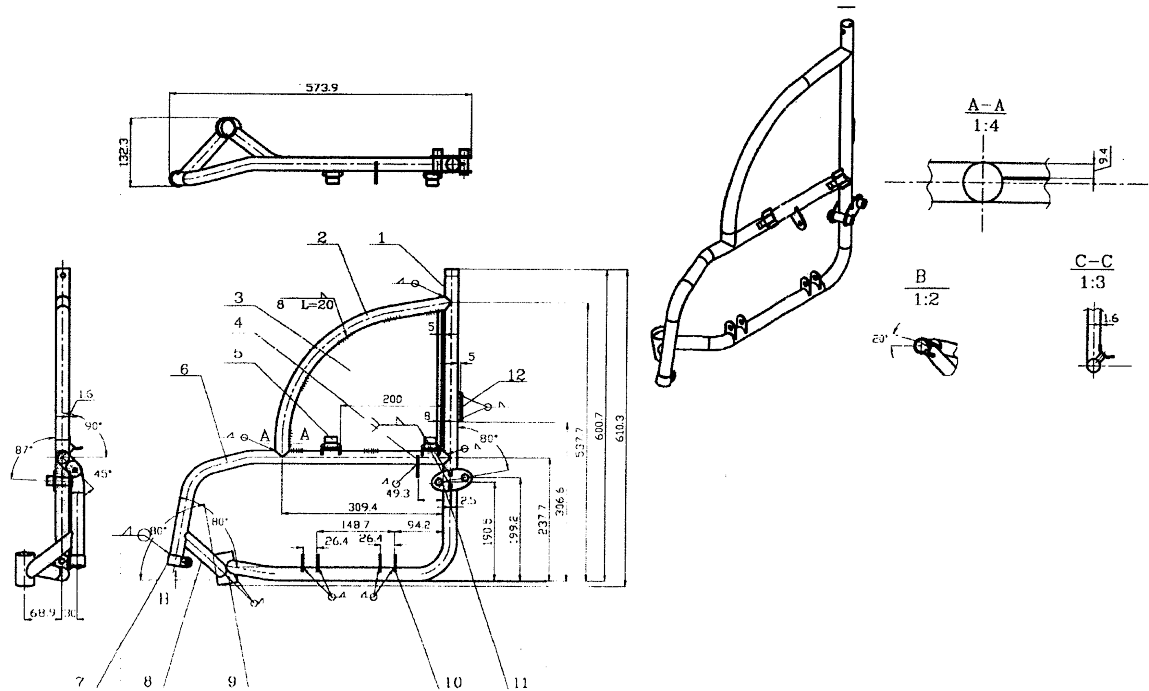
Tolerance wherever not specified

Dim	Tolerance Range		
1 - 16	± 0.2	± 0.3	± 0.4
17 - 63	± 0.2	± 0.5	± 0.7
64 - 250	± 0.3	± 0.7	± 1.0
250 - 960	± 0.5	± 0.12	± 1.5



SL.No	DRAWING No.	NOMENCLATURE	QTY	REMARK
1	TD 2 B 37 C A0	SIDE FRAME WELD ASSY - R	1	
2	TD 2 B 37 B 03	X BRACE ADJUSTABLE BAR	2	
3	TD 2 B 37 B 04	LOCK OUT BAR	1	
4	TD 2 B 37 B 05	M8 PIVOT SPACER	5	
5	TD 2 B 37 B 06	M 8x35 BLACK PAN HEAD	1	
6	TD 2 B 37 B 07	SPACER STRAIGHT	1	
7	TD 2 B 37 B 08	8mm SADDLE WASHER	1	
8		8mm PLAIN WASHER OD 17mm	6	
9		M8 HEX NYLOCK NUT	4	
10		M8x45 ALLEN BUTTON HEAD BOLT	2	
11		M8x20 ALLEN BUTTON HEAD BOLT	1	
12		6001ZZ BALL BEARING	2	
13		SERIAL PLATE	1	
14		CE STICKER	1	

SN.No.	REGION	REVISION	DATE	SIGN
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 ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR 				
DGN		NOM	SIDE FRAME MECH ASSY - R	
DRN		MTL	_____	
CHD		HEAT	_____	
DIM	IN mm	TREATMENT	_____	
SCALE	NTS	SURFACE TREATMENT	_____	
APP				
DATE	09.02.2018	DRG No:- TD 2 B 37 C 00	REV 0	SHEET 1 OF 1



SL.No	DRAWING No.	NOMENCLATURE	QTY	REMARK
1	TD 2 B 37 C A1	BACK REST TUBE - R	1	
2	TD 2 B 37 C A2	TOP TUBE SIDE FRAME - R	1	
3	TD 2 B 37 C A3	CASTOR MOUNT TUBE - R	1	
4	TD 2 B 37 C A4	SIDE GUARD - R	1	
5	TD 2 B 37 B A2	ARM REST TUBE	1	
6	TD 2 B 37 B A4	LOCK OUT BAR/PIVOT	1	
7	TD 2 B 37 B A5	SUPPORT CAP - GENNERIC	2	
8	TD 2 B 37 B A7	FOOT REAT HEIGHT CLAMP	1	
9	TD 2 B 37 B A9	CASTOR BARREL TWO HOLES	1	
10	TD 2 B 37 B 01	X BRACE FRAME PIVOT	4	
11	TD 2 B 37 B 02	STRAP MOUNTING SINGLE	1	
12	TD 2 B 37 B 03	X BRACE ADJUSTABLE BAR	2	

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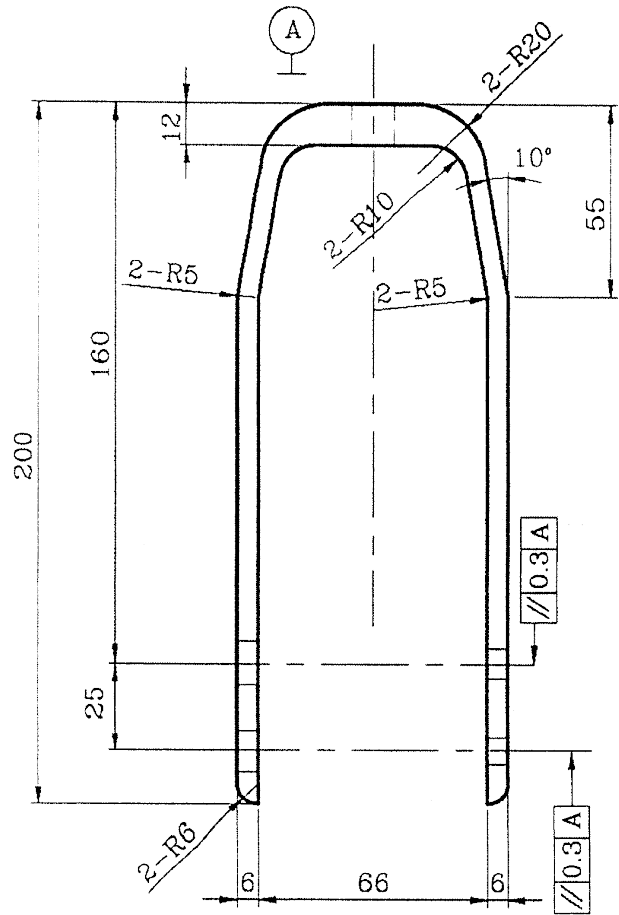
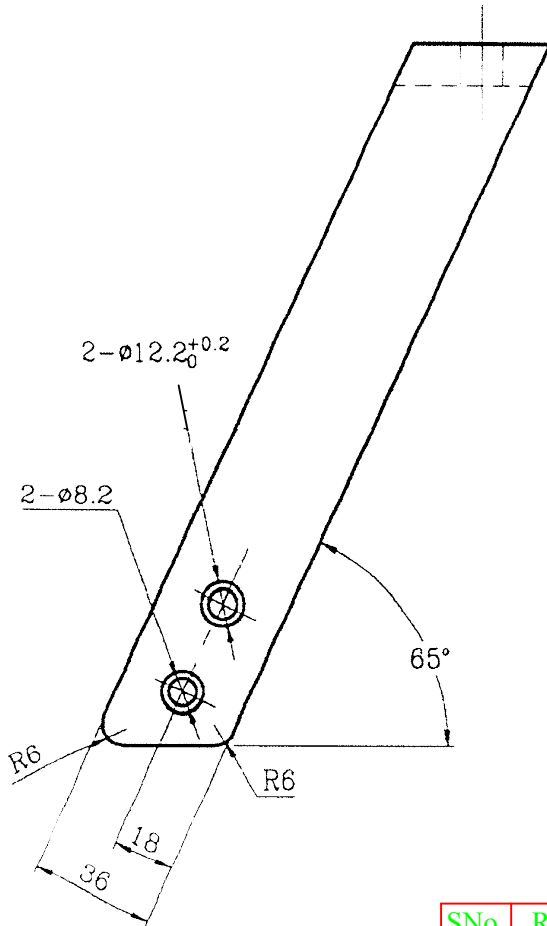
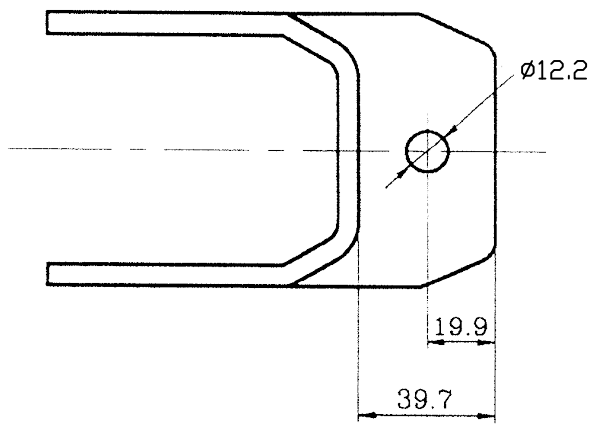
ARTIFICIAL LIMBS
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Tolerance wherever not specified

Dim	Tolerance Range		
1 - 16	± 0.2	± 0.3	± 0.4
17 - 63	± 0.2	± 0.5	± 0.7
64 - 250	± 0.3	± 0.7	± 1.0
250 - 960	± 0.5	± 0.12	± 1.5

DGN	NOM	SIDE FRAME WELD ASSY - R
DRN	MTL	_____
CHD	HEAT	_____
DIM	TREATMENT	_____
SCALE	SURFACE TREATMENT	_____
APP	DRG No:- TD 2 B 37 C A0	REV 0 SHEET 1 OF 1
DATE	09.02.2018	



Tolerance wherever not specified

Dim	Tolerance Range		
1 - 16	± 0.2	± 0.3	± 0.4
17 - 63	± 0.2	± 0.5	± 0.7
64 - 250	± 0.3	± 0.7	± 1.0
250 - 960	± 0.5	± 0.12	± 1.5

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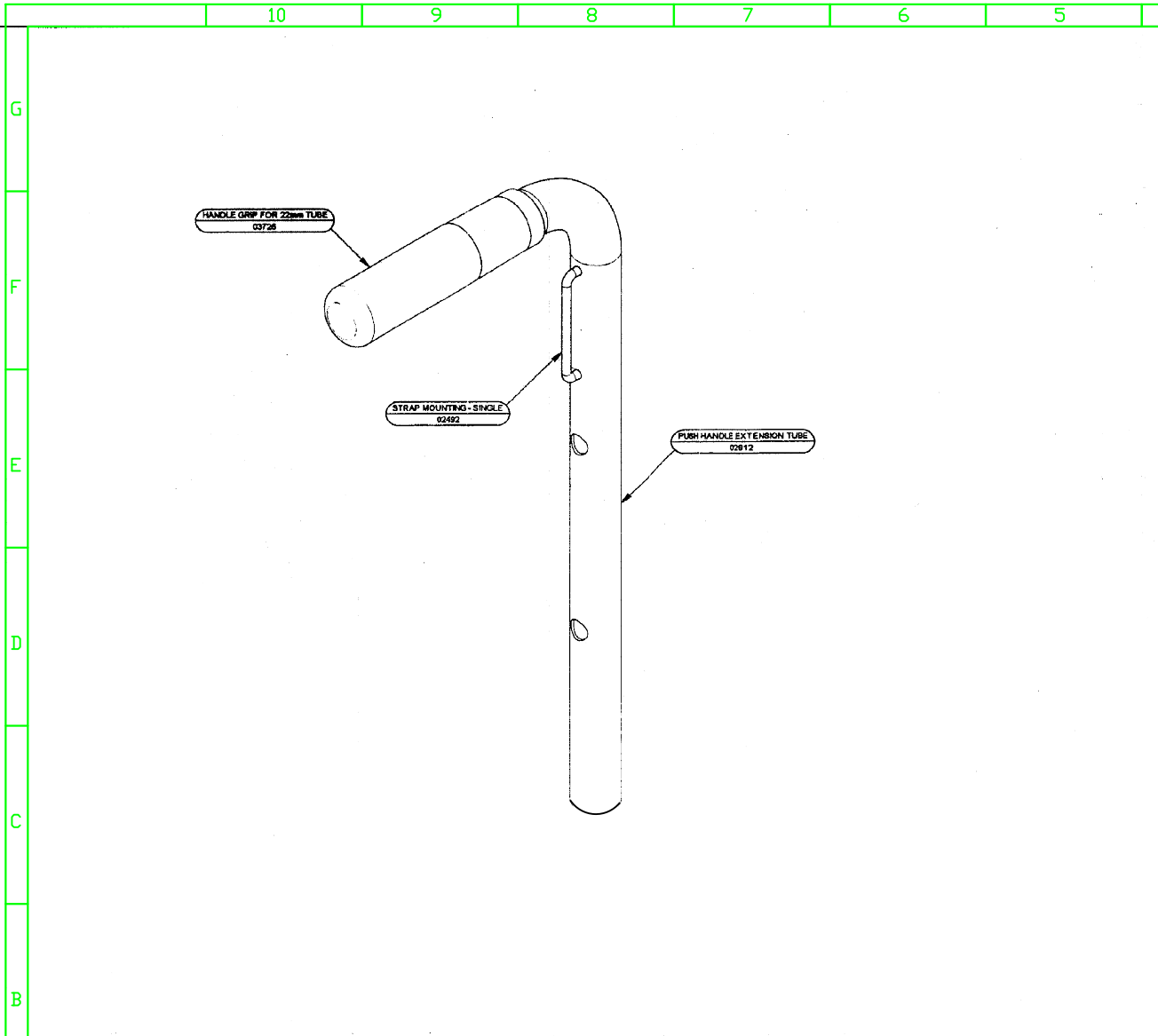
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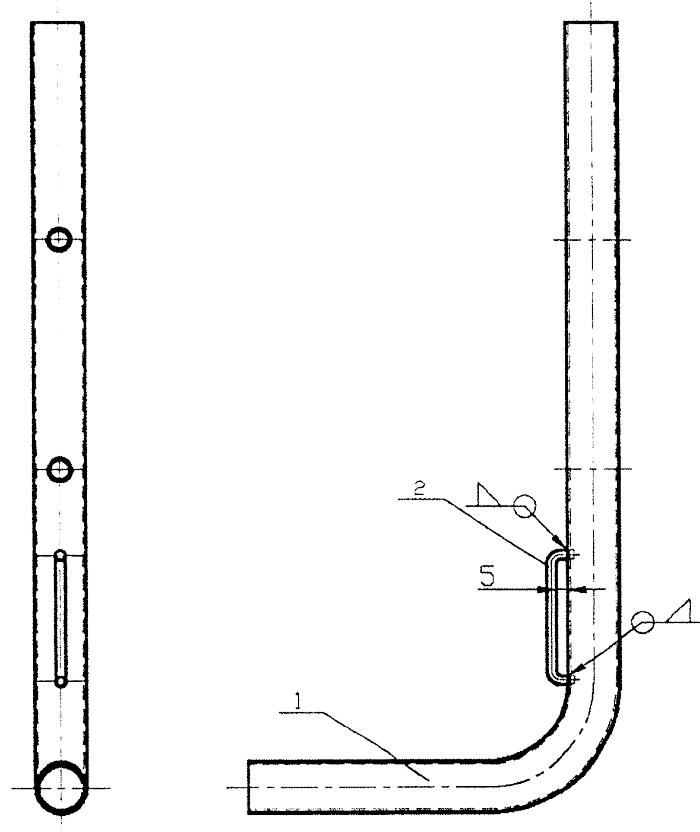
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DRN	MTL	ALUMINIUM 6061 EXTRUDED		
CHD	HEAT TREATMENT	T6		
DIM IN mm	SURFACE TREATMENT	_____		
SCALE NTS	APP	DRG No:-	TD 2 B 37 D 03	REV 0
DATE 09.02.2018				SHEET 10F1



SL.No	DRAWING No.	NOMENCLATURE	QTY	REMARK
1	TD 2 B 37 E A0	PUSH HANDLE EXTENSION WELD ASSY	1	
2	TD 2 B 37 E 01	HANDLE GRIP FOR 22mm TUBE	1	

SNo.	REGION	REVISION	DATE	SIGN		
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		ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR				
DGN		NOM	EXTENDABLE PUSH HANDLE			
DRN		MTL	_____			
CHD		HEAT	_____			
DIM	IN mm	TREATMENT	_____			
SCALE	NTS	SURFACE TREATMENT	_____			
APP		DRG No:- TD 2 B 37 E 00		REV	SHEET	
DATE	09.02.2018	0	1 OF 1			

SL.No	DRAWING No.	NOMENCLATURE	QTY	REMARK
1	TD 2 B 37 E A1	PUSH HANDLE EXTENSION TUBE	1	
2	TD 2 B 37 E A2	STRAP MOUNTING SINGLE	1	



SN0.	REGION	REVISION	DATE	SIGN
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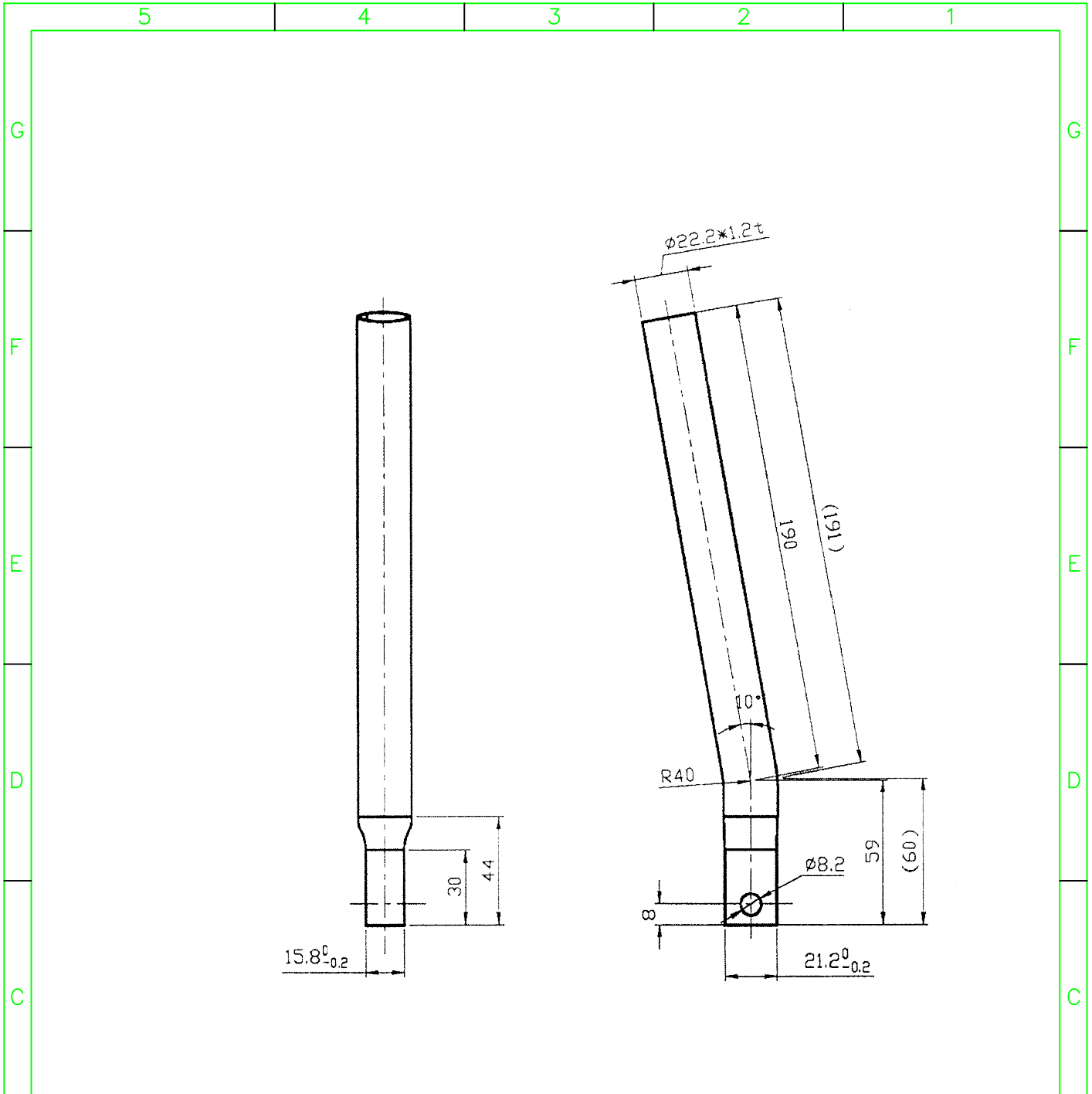
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DGN		NOM	PUSH HANDLE EXTENSION WELD ASSY	
DRN		MTL	_____	
CHD		HEAT TREATMENT	_____	
DIM	IN mm	SURFACE TREATMENT	_____	
SCALE	NTS			
APP		DRG No:- TD 2 B 37 E A0	REV	SHEET
DATE	09.02.2018		0	10F1

Tolerance wherever not specified

Dim	Tolerance Range		
1\ 16	± 0.2	± 0.3	± 0.4
17 - 63	± 0.2	± 0.5	± 0.7
64 - 250	± 0.3	± 0.7	± 1.0
250 - 960	± 0.5	± 0.12	± 1.5



SNNo.	REGION	REVISION	DATE	SIGN
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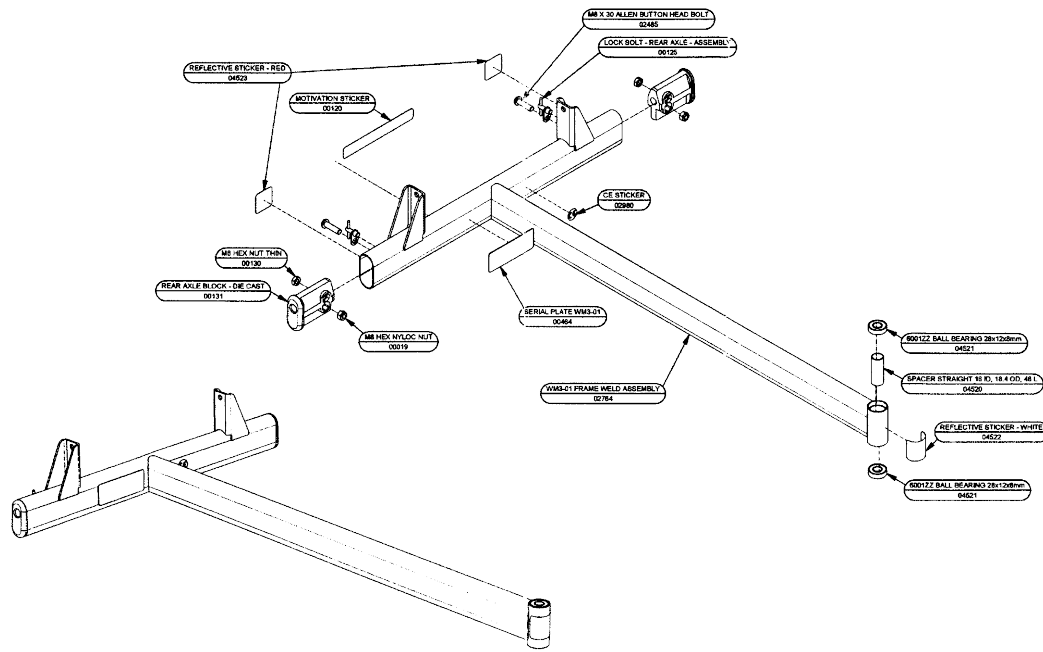


DGN		NOM	FOOT REST HEIGHT TUBE ANGLED	
DRN		MTL	ERW STEEL TUBE STKM11A	
CHD		HEAT TREATMENT	_____	
DIM	IN mm	SURFACE TREATMENT	_____	
SCALE	NTS			
APP		DRG No:- TD 2 B 37 F 02	REV	SHEET
DATE	09.02.2018		0	10F1



Tolerance wherever not specified

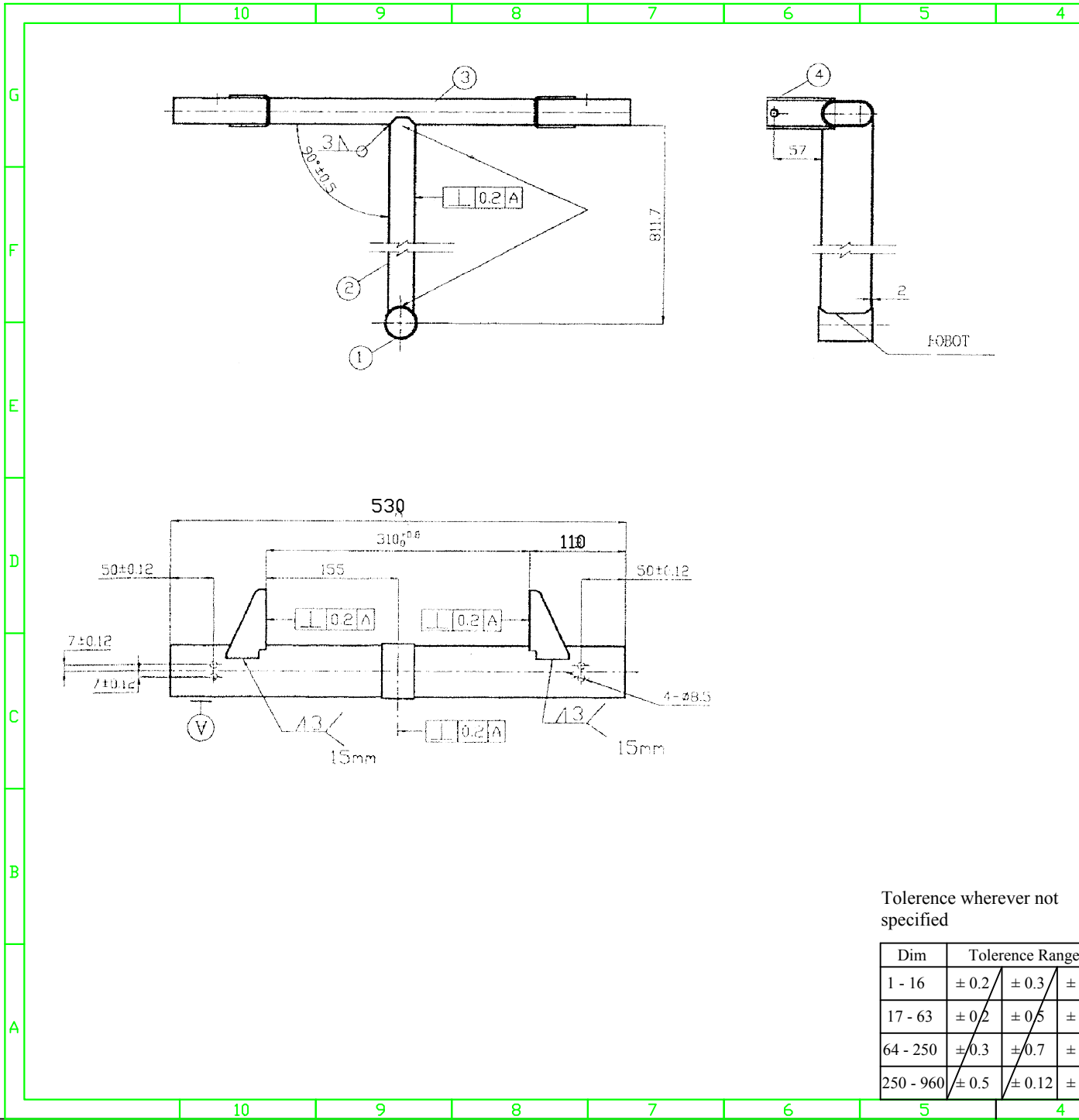
Dim	Tolerance Range		
1\ 16	± 0.2	± 0.3	± 0.4
17 - 63	± 0.2	± 0.5	± 0.7
64 - 250	± 0.3	± 0.7	± 1.0
250 - 960	± 0.5	± 0.12	± 1.5

TD2B36000





SL.No	DRAWING No.	NOMENCLATURE	QTY	REMARK
1	TD 2 B 36 A A0	FRAME WELD ASSY	1	
2	TD 2 B 36 A B0	LOCK BOLT REAR AXLE ASSY	2	
3	TD 2 B 36 A 01	REAR AXLE BOLT DIE CAST	2	
4	TD 2 B 36 A 02	SPACER STRAIGHT	1	
5	TD 2 B 36 A 03	SERIAL PLATE	1	
6	TD 2 B 36 A 04	CE STICKER	1	
7	TD 2 B 36 A 05	REFLECTIVE STICKER - RED	2	
8	TD 2 B 36 A 06	MOTIVATION STICKER	1	
9	TD 2 B 36 A 07	REFLECTIVE STICKER - WHITE	1	
10		6001ZZ BALL BEARING 28x12x8	2	
11		M8 HEX NUT THIN	2	
12		M8 HEX NYLOCK NUT	2	
13		M8x30 ALLEN BUTTON HEAD BOLT	2	

SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
 ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR 				
DGN		NOM	FRAME-PRE-ASSEMBLY	
DRN		MTL	_____	
CHD		HEAT	_____	
DIM	IN mm	TREATMENT	_____	
SCALE	NTS	SURFACE TREATMENT	_____	
APP				
DATE	15.01.2018	DRG No:- TD 2 B 36 A 00	REV 0	SHEET 1 OF 1

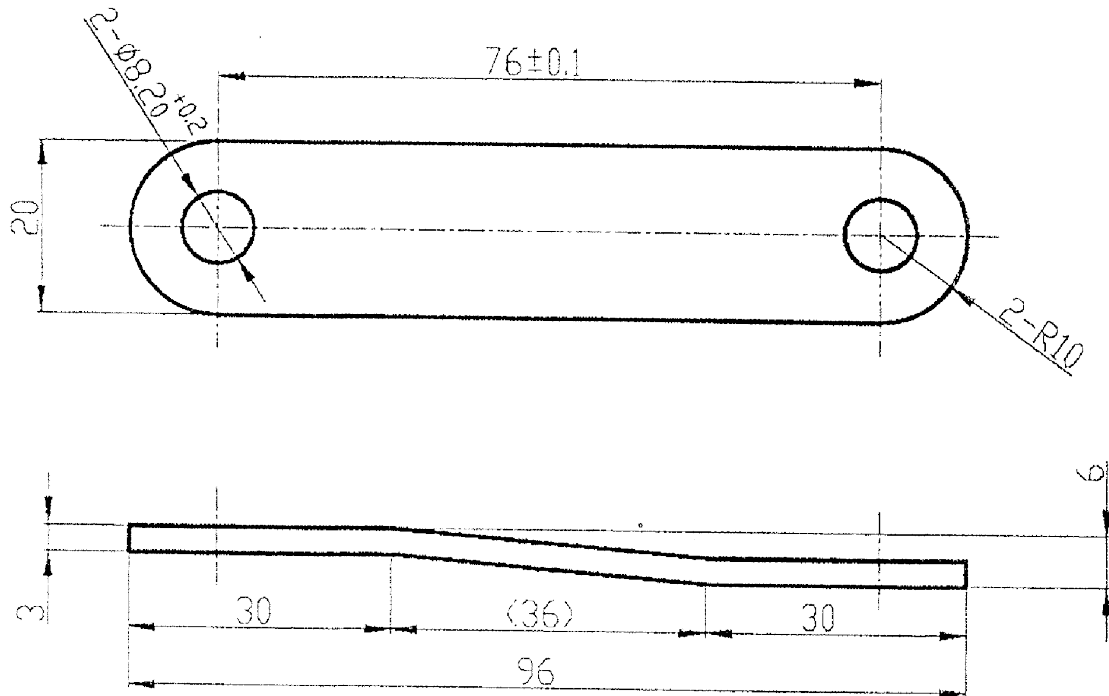


SL.No	DRAWING No	NOMENCLATURE	QTY	REMARK
1	TD 2 B 36 A A1	CASTOR BARREL	1	
2	TD 2 B 36 A A2	MAIN TUBE - FRAME	1	
3	TD 2 B 36 A A3	CROSS TUBE FRAME	1	
4	TD 2 B 36 A A4	REAR BRACKET FRAME	2	

SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
 ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR 				
DGN		NOM	FRAME WELD ASSY	
DRN		MTL	_____	
CHD		HEAT	_____	
DIM	IN mm	TREATMENT	_____	
SCALE	NTS	SURFACE TREATMENT	_____	
APP		DRG No:-	TD 2 B 36 A A0	REV SHEET 0 1 OF 1
DATE	15.01.2018			

Tolerance wherever not specified

Dim	Tolerance Range		
1 - 16	± 0.2	± 0.3	± 0.4
17 - 63	± 0.2	± 0.5	± 0.7
64 - 250	± 0.3	± 0.7	± 1.0
250 - 960	± 0.5	± 0.12	± 1.5



SNNo.	REGION	REVISION	DATE	SIGN
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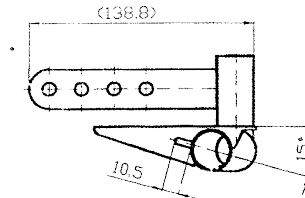
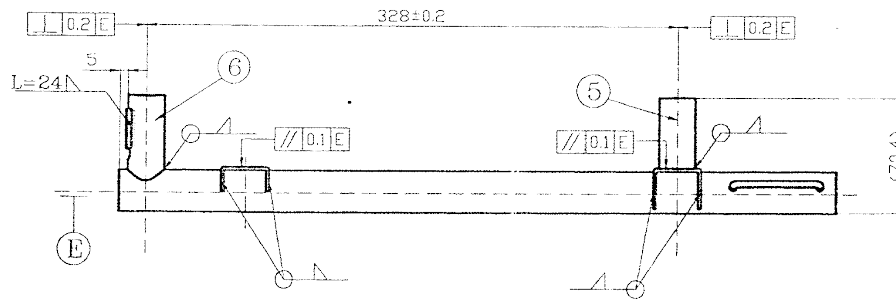
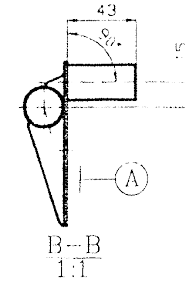
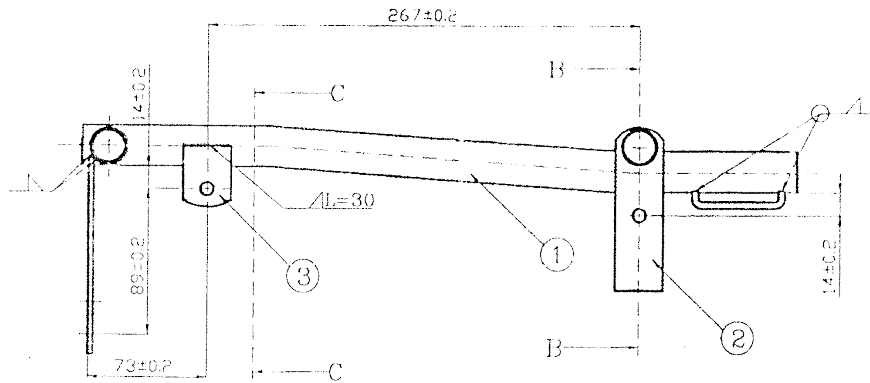
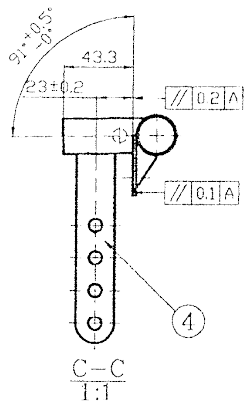
ARTIFICIAL LIMBS
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OF INDIA
KANPUR



DGN		NOM	ANGLED FLAT STRIP	
DRN		MTL	SHEEY STEEL (GJIS G413) SPCC	
CHD		HEAT TREATMENT	_____	
DIM	IN mm	SURFACE TREATMENT	_____	
SCALE	NTS			
APP		DRG No:-	TD 2 B 36 C 01	REV 0
DATE	15.01.2018			SHEET 10F1

Tolerance wherever not specified

Dim	Tolerance Range		
1\ 16	± 0.2	± 0.3	± 0.4
17 - 63	± 0.2	± 0.5	± 0.7
64 - 250	± 0.3	± 0.7	± 1.0
250 - 960	± 0.5	± 0.12	± 1.5



7	TD 2 B 36 C A7	STRAP MOUNTING SINGLE	1	
6	TD 2 B 36 C A6	TUBULAR MOUNTING SOCKET-LONG	1	
5	TD 2 B 36 C A5	TUBULAR MOUNTING SOCKET-SHORT	1	
4	TD 2 B 36 C A4	ADJUSTABLE FLAT STRIP	1	
3	TD 2 B 36 C A3	SHORT MOUNTING BRACKET	1	
2	TD 2 B 36 C A2	LONG MOUNTING BRACKET	1	
1	TD 2 B 36 C A1	ARMREST MOUNTING ANGLED TUBE - L	1	
SL.No	DRAWING No	NOMENCLATURE	QTY	REMARK

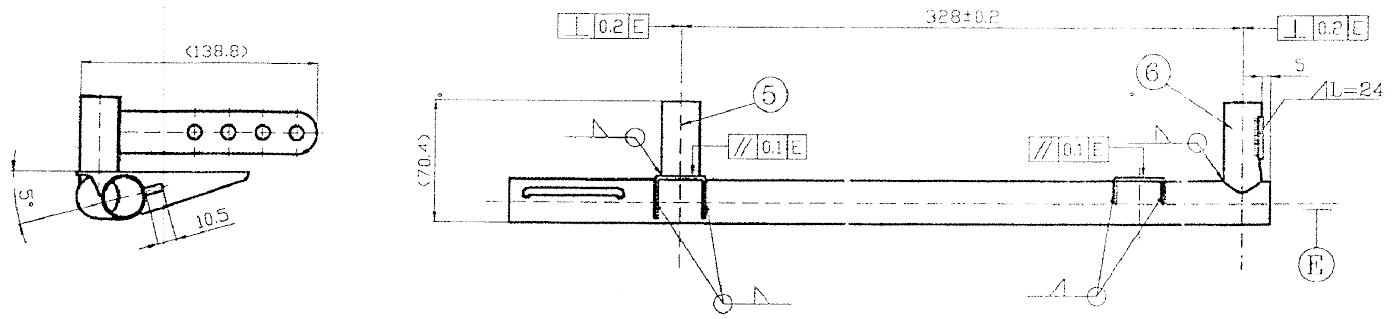
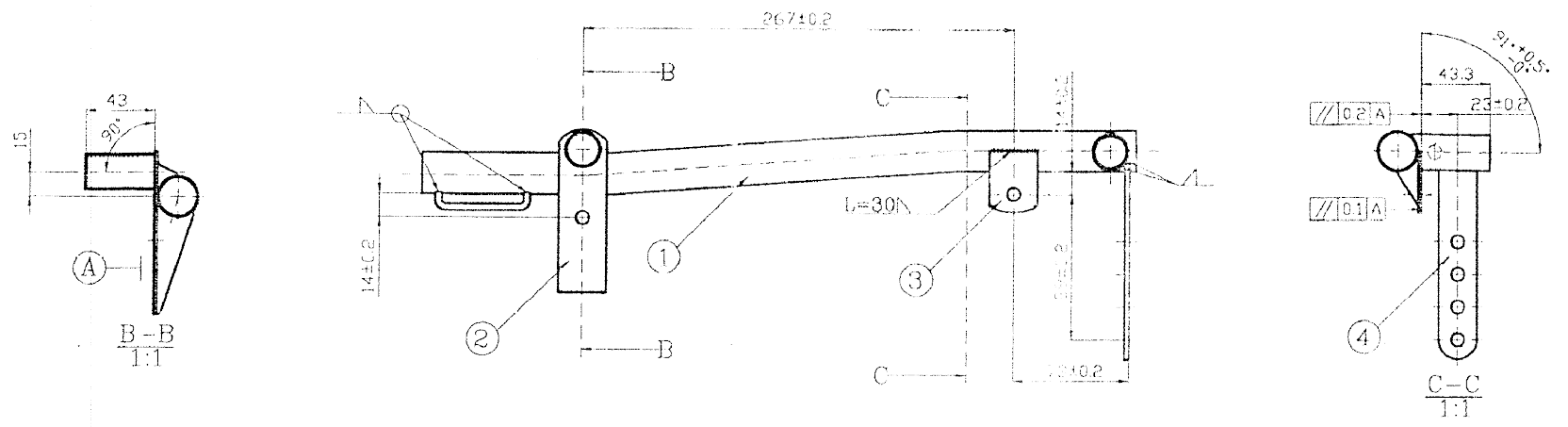
Tolerance wherever not specified

Dim	Tolerance Range		
1 - 16	±0.2	±0.3	±0.4
17 - 63	±0.2	±0.5	±0.7
64 - 250	±0.3	±0.7	±1.0
250 - 960	±0.5	±1.12	±1.5

SN.No.	REGION	REVISION	DATE	SIGN
REVISIONS				
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR				
DGN		NOM	TUBULAR ARMREST MOUNTING WELD ASSY - L	
DRN		MTL	_____	
CHD		HEAT	_____	
DIM	IN mm	TREATMENT	_____	
SCALE	NTS	SURFACE TREATMENT	_____	
APP		DRG No:- TD 2 B 36 C A0	REV 0	SHEET 1 OF 1
DATE	15.01.2018			

10 9 8 7 6 5 4 3 2 1

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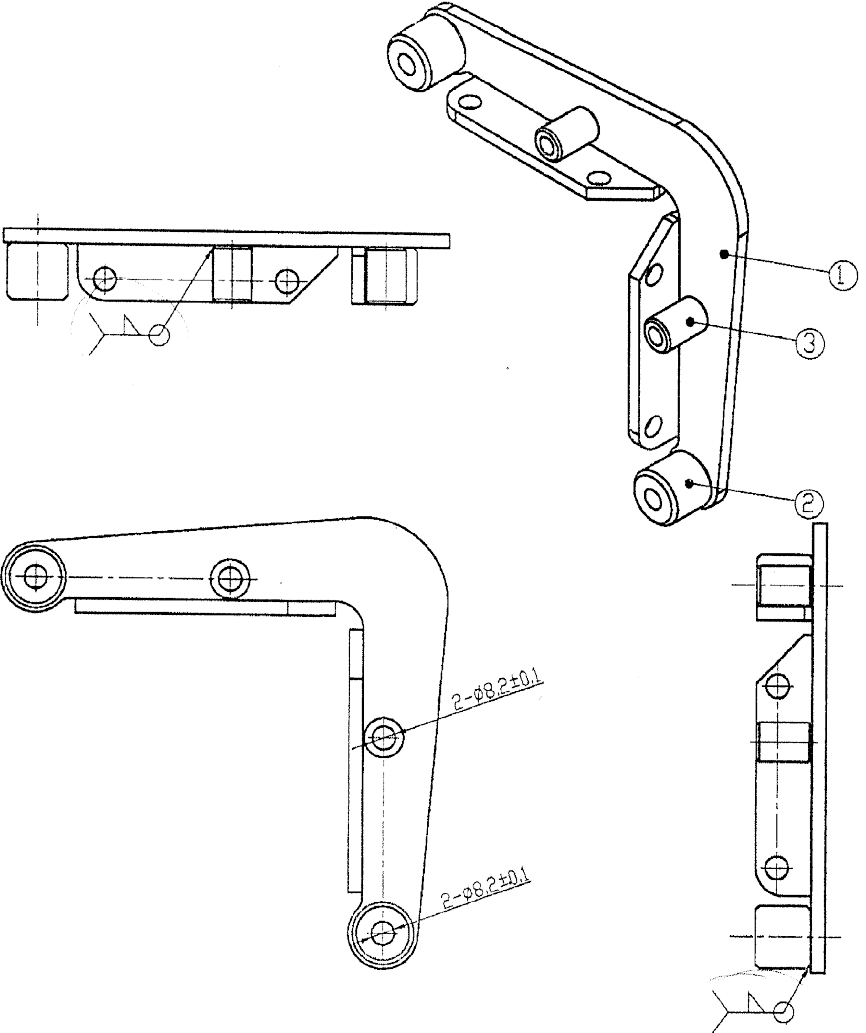
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6	TD 2 B 36 C A6	TUBULAR MOUNTING SOCKET-LONG	1	
5	TD 2 B 36 C A5	TUBULAR MOUNTING SOCKET-SHORT	1	
4	TD 2 B 36 C A4	ADJUSTABLE FLAT STRIP	1	
3	TD 2 B 36 C A3	SHORT MOUNTING BRACKET	1	
2	TD 2 B 36 C A2	LONG MOUNTING BRACKET	1	
1	TD 2 B 36 C B1	ARMREST MOUNTING ANGLED TUBE -L	1	
SL.No	DRAWING No	NOMENCLATURE	QTY	REMARK

Tolerance wherever not specified

Dim	Tolerance Range		
1 - 16	±0.2	±0.3	±0.4
17 - 63	±0.2	±0.5	±0.7
64 - 250	±0.3	±0.7	±1.0
250 - 960	±0.5	±1.2	±1.5

SN.No.	REGION	REVISION	DATE	SIGN
REVISIONS				
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR				
DGN	NOM	TUBULAR ARM REST MOUNTING WELD ASSY - R		
DRN	MTL	_____		
CHD	HEAT	_____		
DIM	TREATMENT	_____		
SCALE	SURFACE TREATMENT	_____		
APP	DRG No:- TD 2 B 36 C B0	REV	SHEET	
DATE	15.01.2018	0	1 OF 1	



10 9 8 7 6 5 4

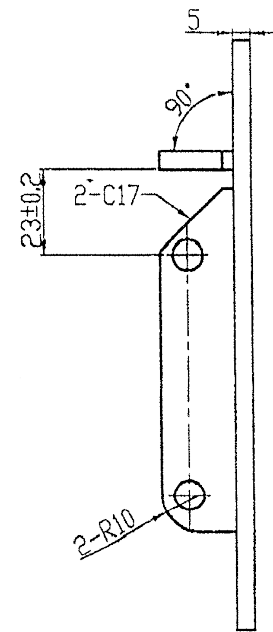
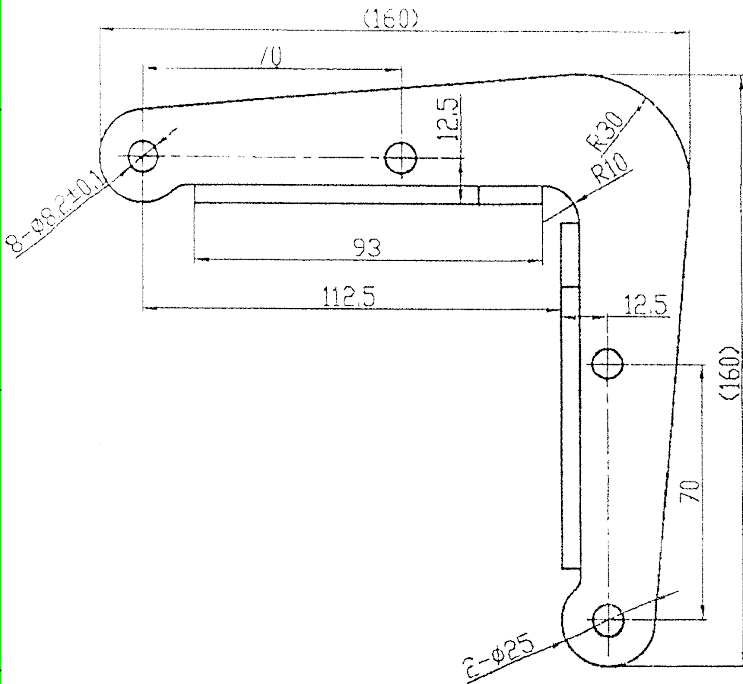
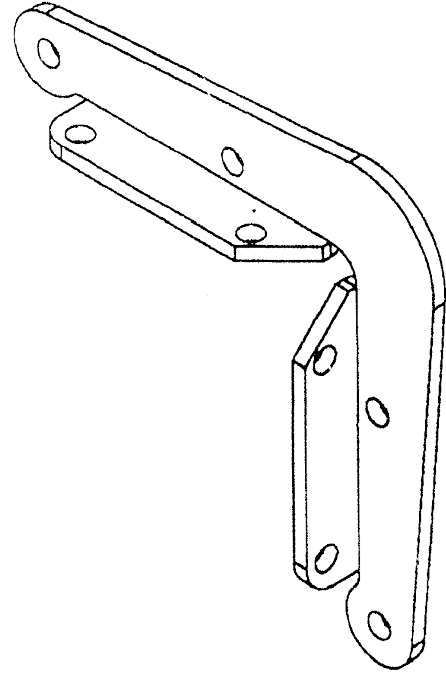
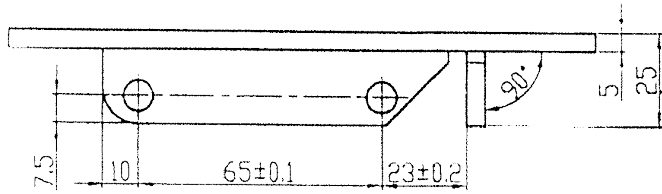


SL.No	DRAWING No.	NOMENCLATURE	QTY	REMARK
1	TD 2 B 36 C C1	REAR SEAT SUPPORT	1	
2	TD 2 B 36 C C2	HINGE SPACER	2	
3	TD 2 B 36 C C3	SUPPORT SPACER	2	

Tolerance wherever not specified

Dim	Tolerance Range		
1 - 16	± 0.2	± 0.3	± 0.4
17 - 63	± 0.2	± 0.5	± 0.7
64 - 250	± 0.3	± 0.7	± 1.0
250 - 960	± 0.5	± 0.12	± 1.5

SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
 ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR 				
DGN		NOM	REAR SEAT SUPPORT WELDMENT	
DRN		MTL	STEEL MILD	
CHD		HEAT	_____	
DIM	IN mm	TREATMENT	_____	
SCALE	NTS	SURFACE TREATMENT	_____	
APP				
DATE	15.01.2018	DRG No:- TD 2 B 36 C C0	REV 0	SHEET 1 OF 1



SNNo.	REGION	REVISION	DATE	SIGN
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ARTIFICIAL LIMBS
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OF INDIA
KANPUR



DGN	NOM	REAR SEAT SUPPORT		
DRN	MTL	SHEET STEEL (JIS G 313) SPHC		
CHD	HEAT TREATMENT	_____		
DIM	SURFACE TREATMENT	_____		
SCALE	NTS			
APP	DRG No:- TD 2 B 36 C C1	REV	SHEET	
DATE	15.01.2018	0	10F1	

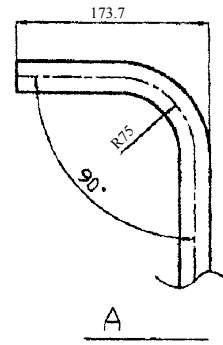
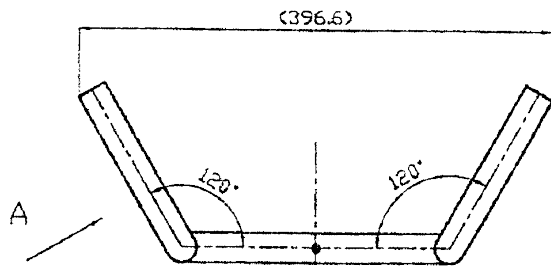
Tolerance wherever not specified

Dim	Tolerance Range		
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17 - 63	± 0.2	± 0.5	± 0.7
64 - 250	± 0.3	± 0.7	± 1.0
250 - 960	± 0.5	± 0.12	± 1.5

5 4 3 2 1

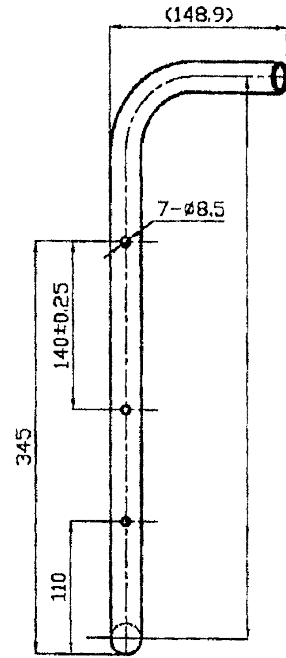
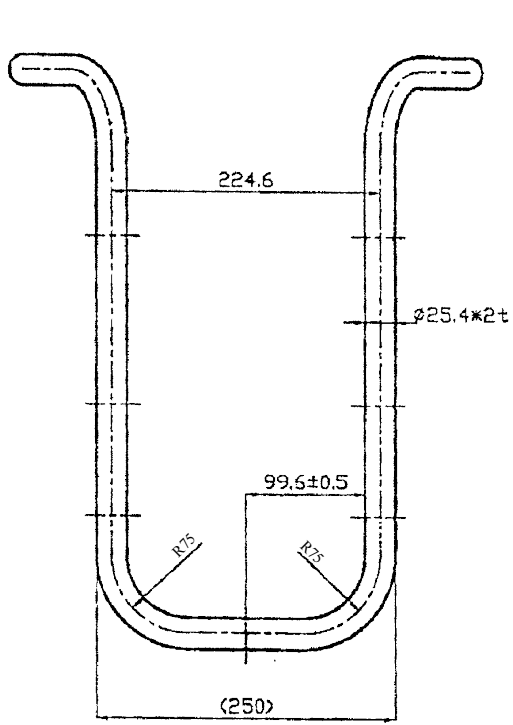
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OF INDIA
KANPUR



DGN	NOM	PUSH HANDLE TUBE		
DRN	MTL	AL. 6061		
CHD	HEAT TREATMENT	_____		
DIM IN mm	SURFACE TREATMENT	_____		
SCALE NTS	APP	DRG No:- TD 2 B 36 D 01	REV 0	SHEET 10F1
DATE 15.01.2018				

Tolerance wherever not specified

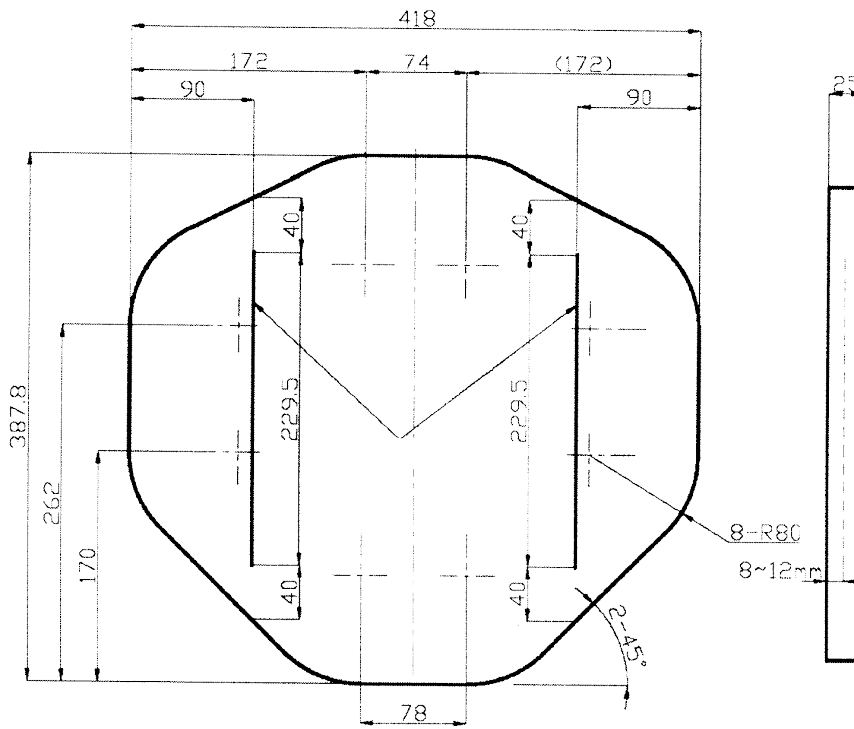
Dim	Tolerance Range		
1 - 16	± 0.2	± 0.3	± 0.4
17 - 63	± 0.2	± 0.5	± 0.7
64 - 250	± 0.3	± 0.7	± 1.0
250 - 960	± 0.5	± 0.12	± 1.5

5

4

A

A



Hardness 70 , density 40 kg/m³

SNNo.	REGION	REVISION	DATE	SIGN
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REVISIONS



ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR

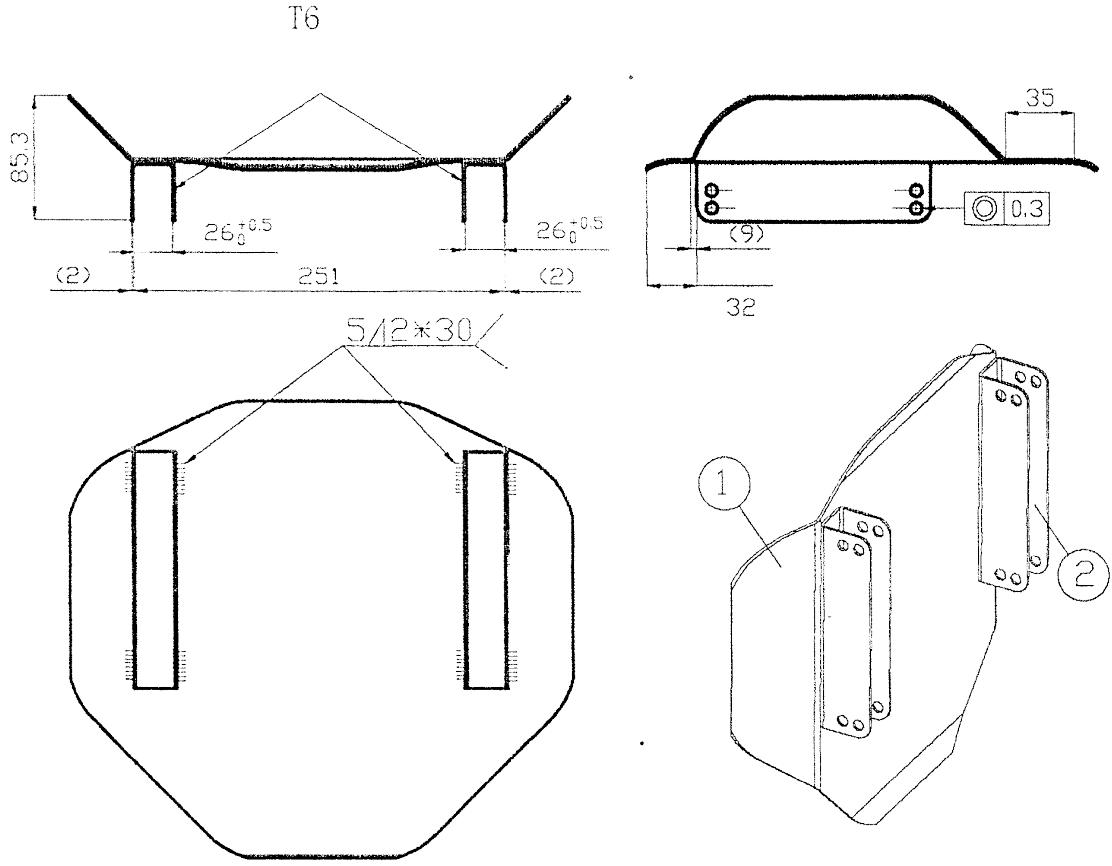




DGN		NOM	BACK REST FOAM	
DRN		MTL	POLYURETHANE FOAM	
CHD		HEAT TREATMENT		
DIM	IN mm	SURFACE TREATMENT		
SCALE	NTS			
APP		DRG No:-	TD 2 B 36 D 03	REV 0
DATE	15.01.2018			SHEET 10F1

Tolerance wherever not specified

Dim	Tolerance Range		
1 - 16	± 0.2	± 0.3	± 0.4
17 - 63	± 0.2	± 0.5	± 0.7
64 - 250	± 0.3	± 0.7	± 1.0
250 - 960	± 0.5	± 0.12	± 1.5

SL.No	DRAWING No.	NOMENCLATURE	QTY	REMARK
1	TD 2 B 36 D A1	BACKREST SHELL PANEL	1	
2	TD 2 B 36 D A2	BACKREST SHELL BRACKET	2	

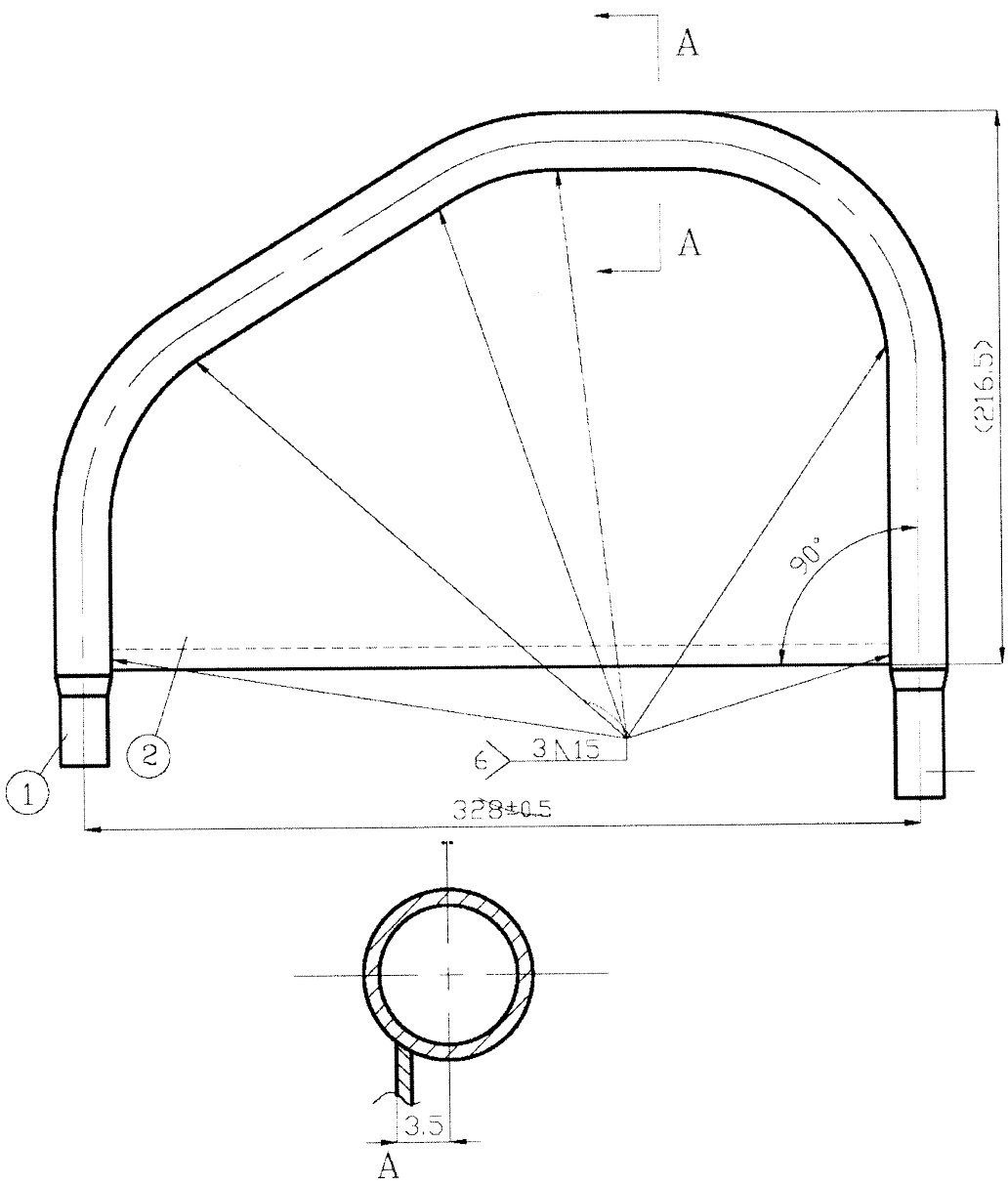


SN0.	REGION	REVISION	DATE	SIGN
REVISIONS				
 ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR 				
DGN		NOM	SOLID BACK REST SHELL WELDMENT	
DRN		MTL	_____	
CHD		HEAT TREATMENT	_____	
DIM	IN mm	SURFACE TREATMENT	_____	
SCALE	NTS			
APP		DRG No:- TD 2 B 36 D A0	REV	SHEET
DATE	15.01.2018		0	10F1

Tolerance wherever not specified

Dim	Tolerance Range		
1\ 16	± 0.2	± 0.3	± 0.4
17 - 63	± 0.2	± 0.5	± 0.7
64 - 250	± 0.3	± 0.7	± 1.0
250 - 960	± 0.5	± 0.12	± 1.5

SL.No	DRAWING No.	NOMENCLATURE	QTY	REMARK
1	TD 2 B 36 E 01	ARMREST TUBE - CURVED	1	
2	TD 2 B 36 E 02	TUBULAR ARMREST ASSY	1	



SNNo.	REGION	REVISION	DATE	SIGN
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REVISIONS



ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR

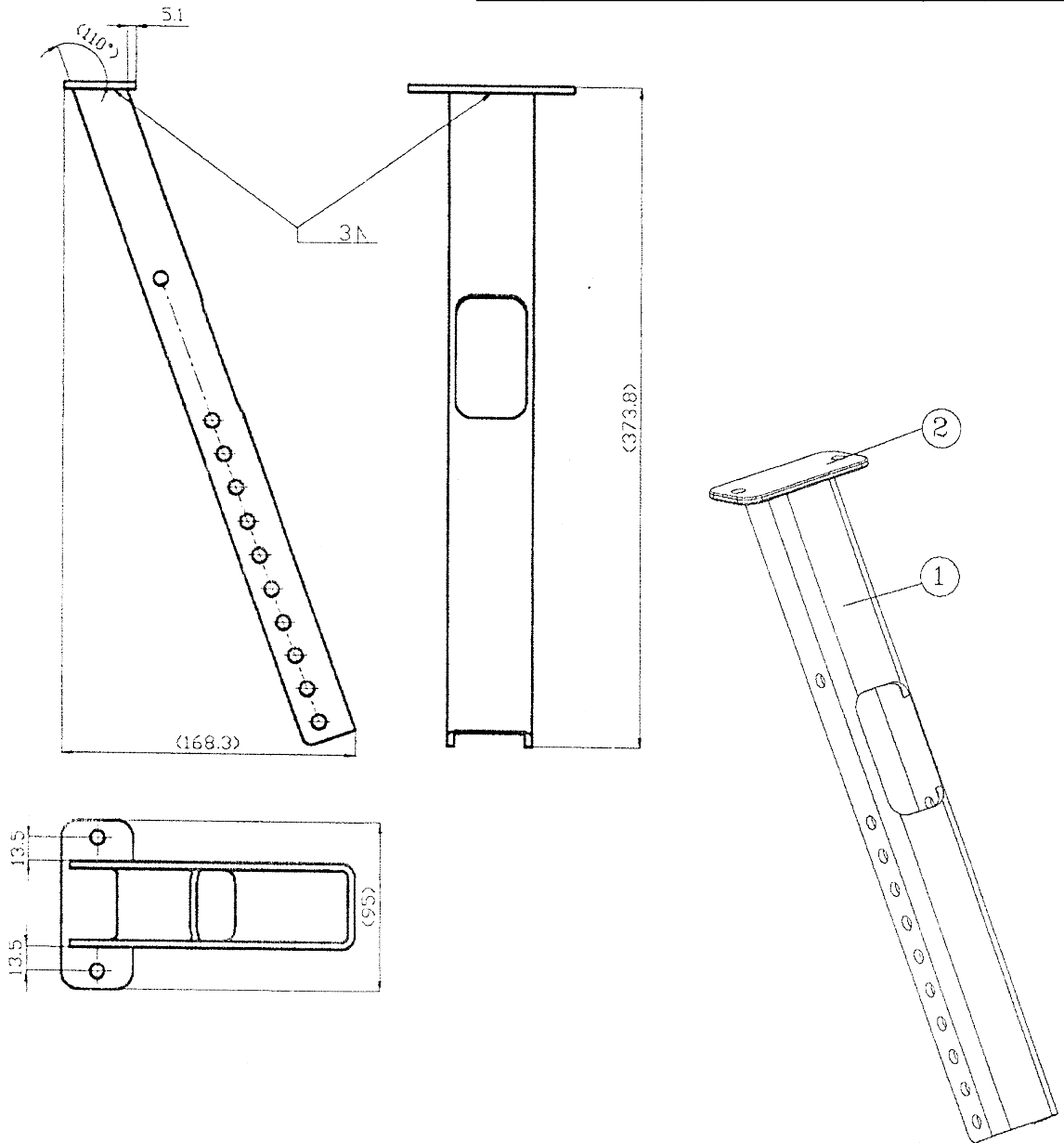


DGN		NOM	TUBULAR ARM REST ASSY
DRN		MTL	_____
CHD		HEAT TREATMENT	_____
DIM	IN mm	SURFACE TREATMENT	_____
SCALE	NTS		
APP		DRG No:- TD 2 B 36 E 00	REV 0 SHEET 10F1
DATE	15.01.2018		

Tolerance wherever not specified

Dim	Tolerance Range		
1 - 16	± 0.2	± 0.3	± 0.4
17 - 63	± 0.2	± 0.5	± 0.7
64 - 250	± 0.3	± 0.7	± 1.0
250 - 960	± 0.5	± 0.12	± 1.5

SL.No	DRAWING No.	NOMENCLATURE	QTY	REMARK
1	TD 2 B 36 F 01	FOOTREST SUPPORT - BRACKET	1	
2	TD 2 B 36 F 02	FOOTREST SUPPORT - PLATE	1	



SNNo.	REGION	REVISION	DATE	SIGN
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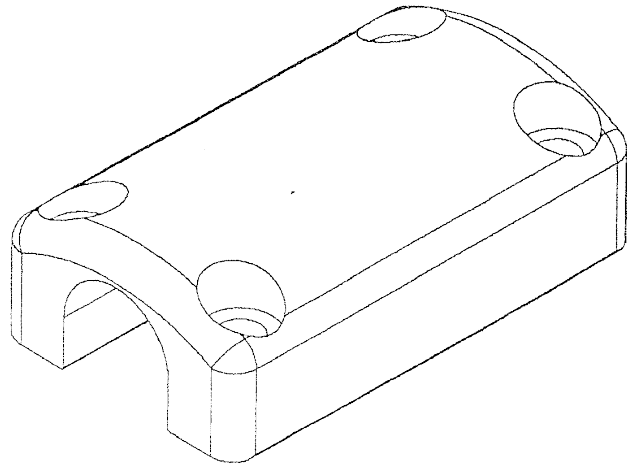
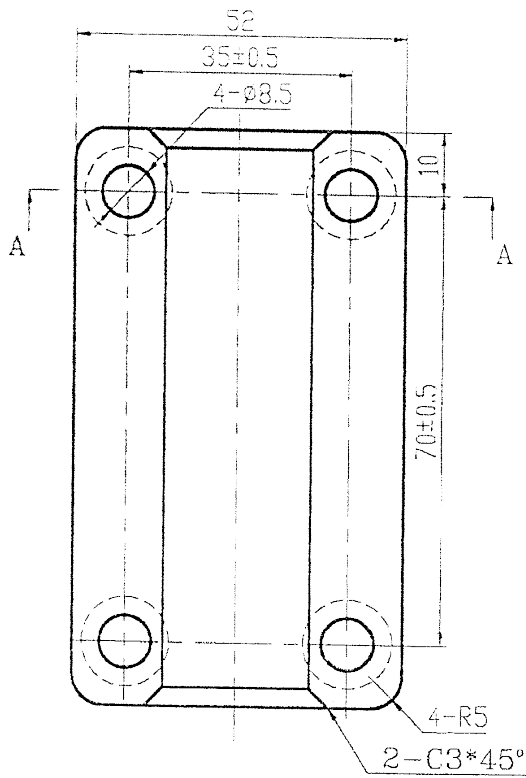
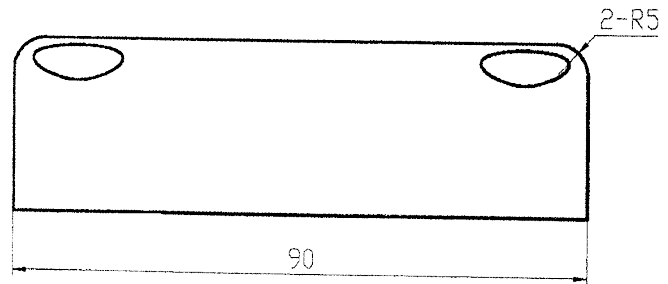
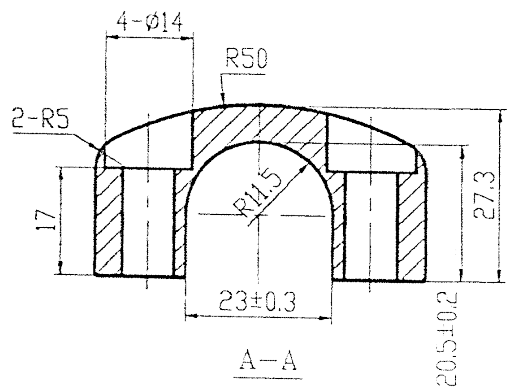
ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR



DGN	NOM	FOOTREST SUPPORT WELDMENT		
DRN	MTL	_____		
CHD	HEAT TREATMENT	_____		
DIM IN mm	SURFACE TREATMENT	_____		
SCALE NTS				
APP	DRG No:- TD 2 B 36 F 00	REV	SHEET	
DATE 15.01.2018		0	10F1	

Tolerance wherever not specified

Dim	Tolerance Range		
1 - 16	± 0.2	± 0.3	± 0.4
17 - 63	± 0.2	± 0.5	± 0.7
64 - 250	± 0.3	± 0.7	± 1.0
250 - 960	± 0.5	± 0.12	± 1.5

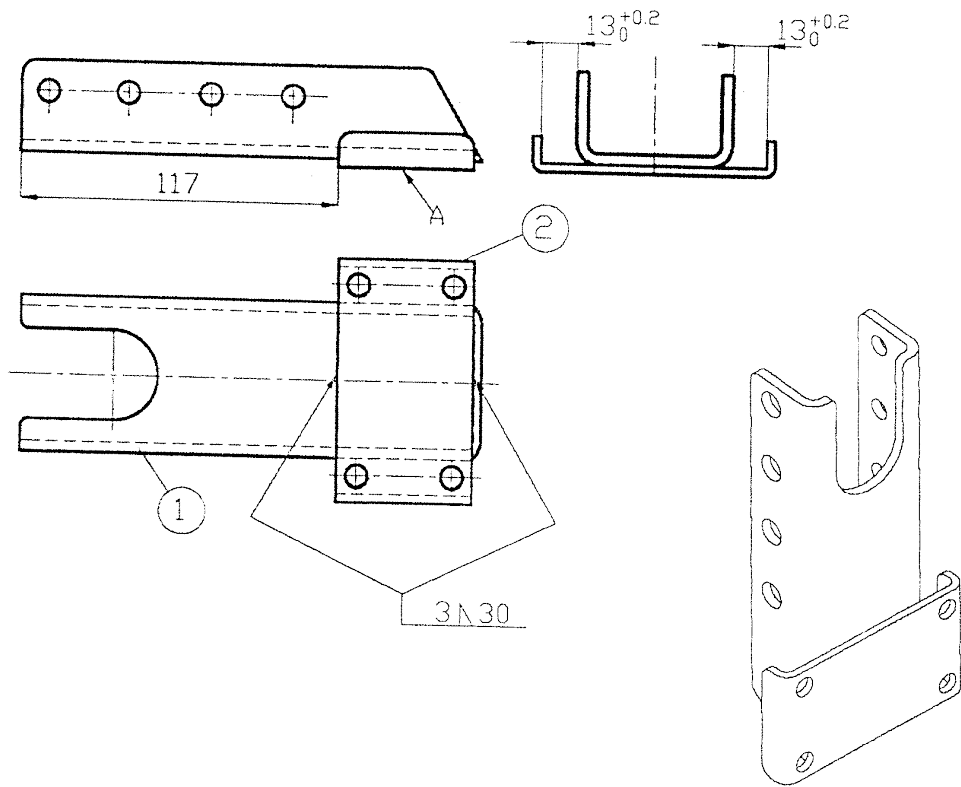


Tolerance wherever not specified

Dim	Tolerance Range		
1 - 16	± 0.2	± 0.3	± 0.4
17 - 63	± 0.2	± 0.5	± 0.7
64 - 250	± 0.3	± 0.7	± 1.0
250 - 960	± 0.5	± 0.12	± 1.5

SNNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
		ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR		
DGN		NOM	FOOT PLATE TUBE CLAMP	
DRN		MTL	-----	
CHD		HEAT TREATMENT	-----	
DIM	IN mm	SURFACE TREATMENT	-----	
SCALE	NTS		-----	
APP		DRG No:- TD 2 B 36 G 01	REV	SHEET
DATE	15.01.2018		0	10F1

SL.No	DRAWING No.	NOMENCLATURE	QTY	REMARK
1	TD 2 B 36 G A1	FOOTREST SLIDING BRACKET	1	
2	TD 2 B 36 G A2	FOOT PLATE TUBE BRACKET	1	



SNNo.	REGION	REVISION	DATE	SIGN
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MANUFACTURING CORPORATION
OF INDIA
KANPUR

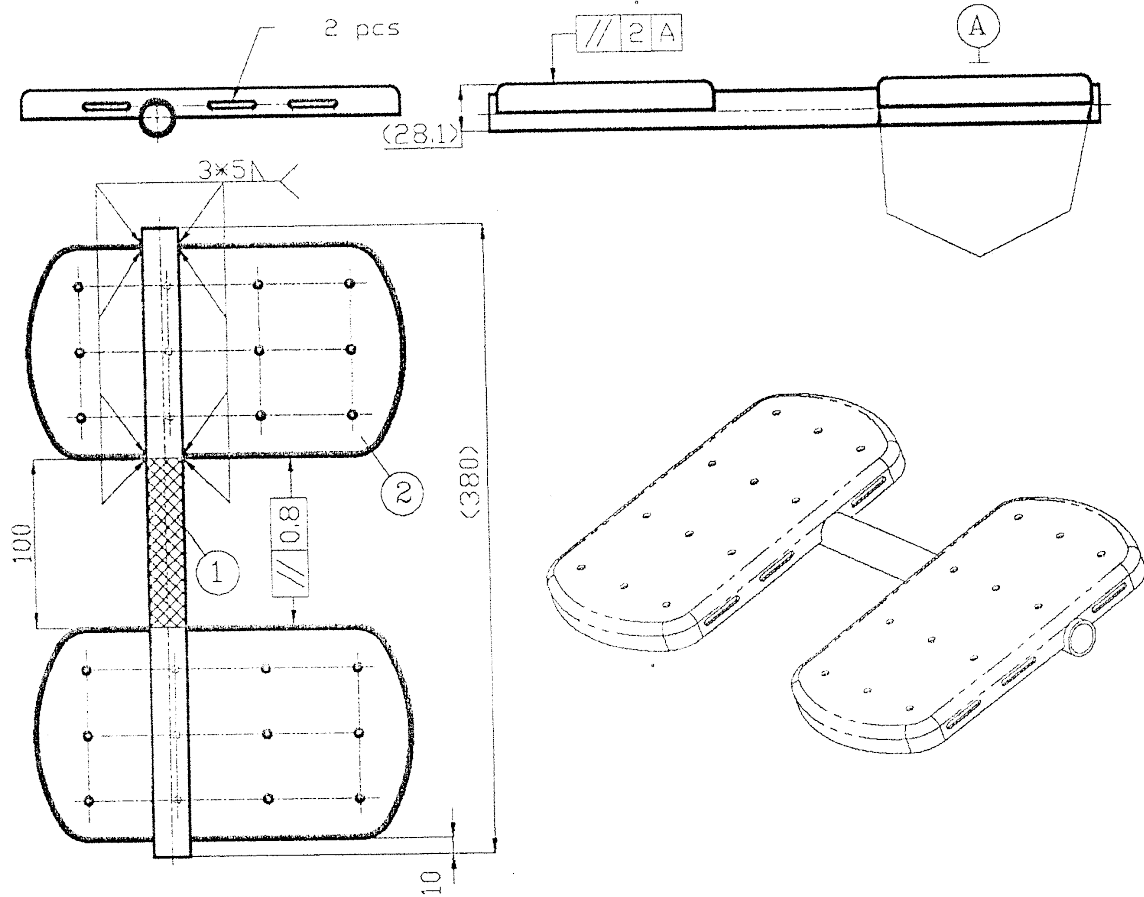


DGN	NOM	FOOTREST SLIDING BRACKET ASSY
DRN	MTL	_____
CHD	HEAT TREATMENT	_____
DIM IN mm	SURFACE TREATMENT	_____
SCALE NTS	APP	
DATE 15.01.2018	DRG No:- TD 2 B 36 G A0	REV 0 SHEET 1OF1

Tolerance wherever not specified

Dim	Tolerance Range		
1 - 16	± 0.2	± 0.3	± 0.4
17 - 63	± 0.2	± 0.5	± 0.7
64 - 250	± 0.3	± 0.7	± 1.0
250 - 960	± 0.5	± 0.12	± 1.5

SL.No	DRAWING No.	NOMENCLATURE	QTY	REMARK
1	TD 2 B 36 G B1	FOOT PLATE TUBE	1	
2	TD 2 B 36 G B2	FOOT PLATE	2	



SNNo.	REGION	REVISION	DATE	SIGN
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REVISIONS



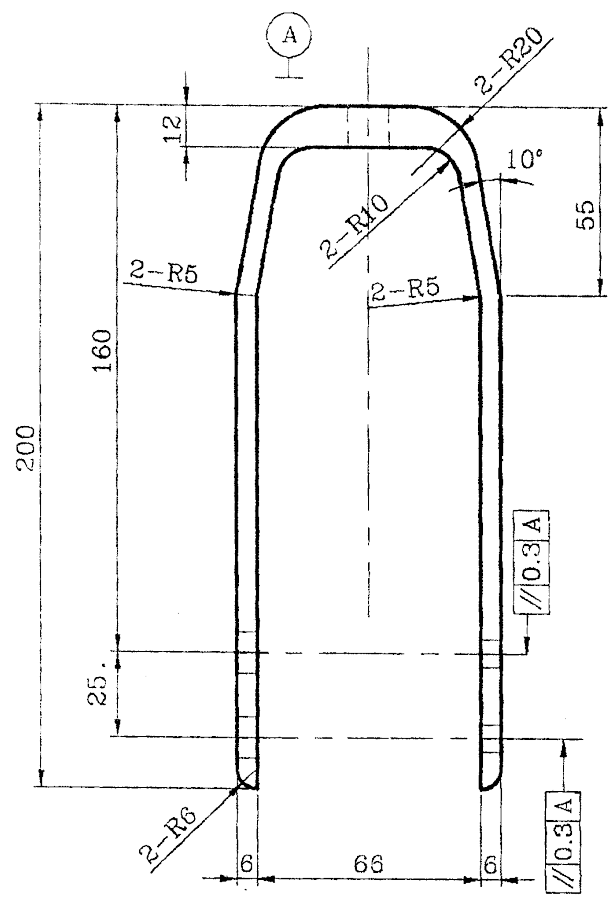
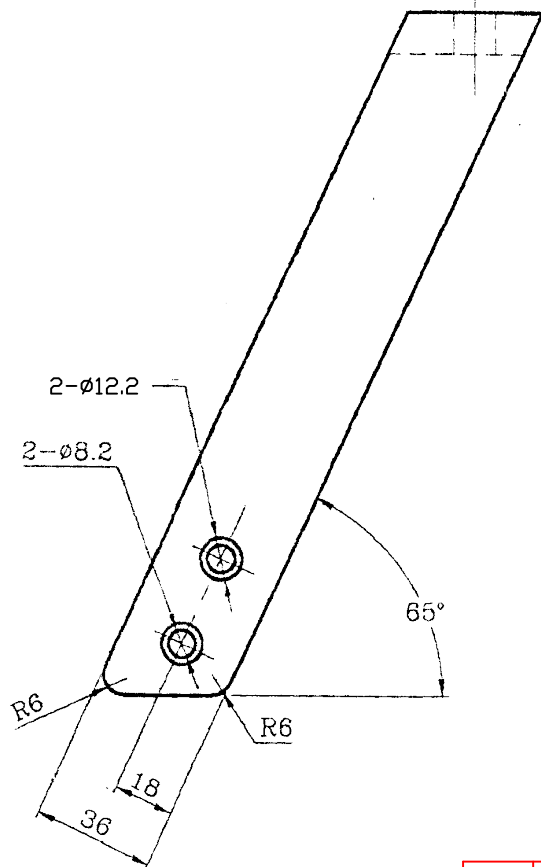
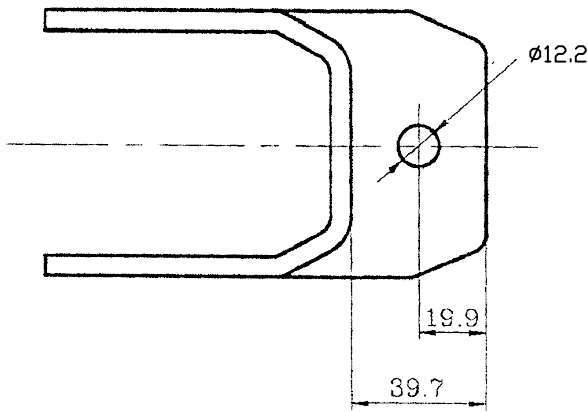
ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR



DGN	NOM	FOOT PLATE WELD ASSY		
DRN	MTL	_____		
CHD	HEAT TREATMENT	_____		
DIM IN mm	SURFACE TREATMENT	_____		
SCALE NTS				
APP	DRG No:- TD 2 B 36 G B0	REV	SHEET	
DATE 15.01.2018		0	10F1	

Tolerance wherever not specified

Dim	Tolerance Range		
1 - 16	± 0.2	± 0.3	± 0.4
17 - 63	± 0.2	± 0.5	± 0.7
64 - 250	± 0.3	± 0.7	± 1.0
250 - 960	± 0.5	± 0.12	± 1.5



SN.	REGION	REVISION	DATE	SIGN
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REVISIONS



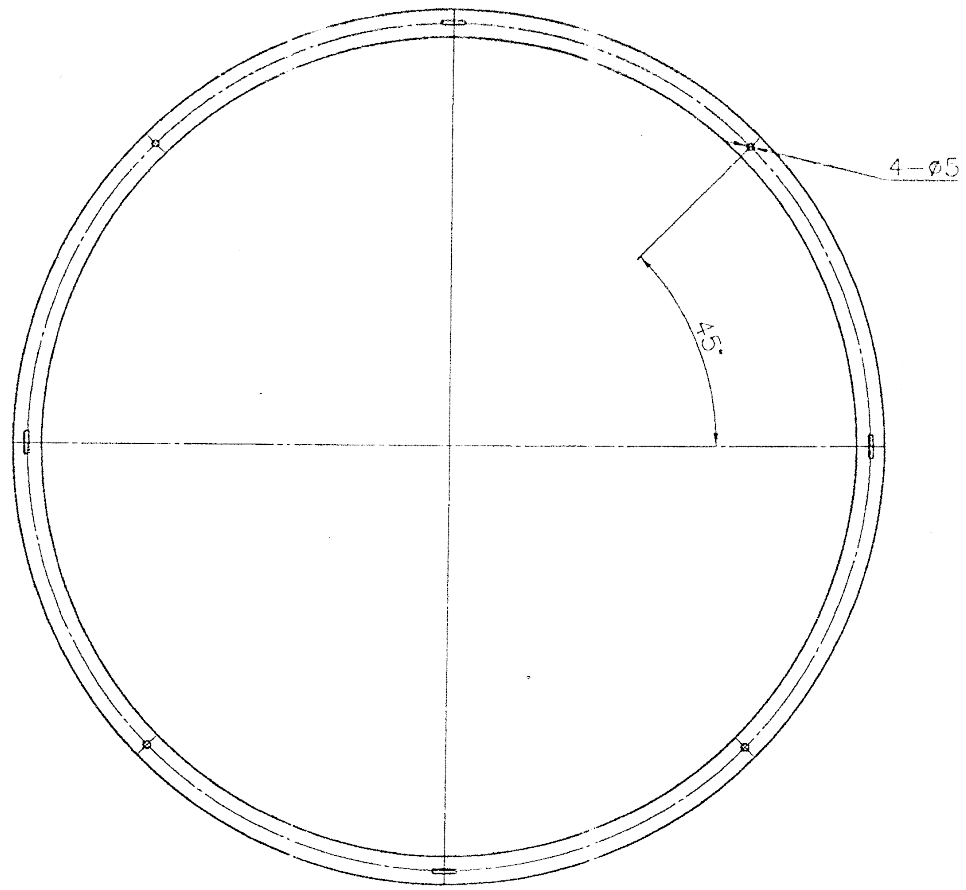
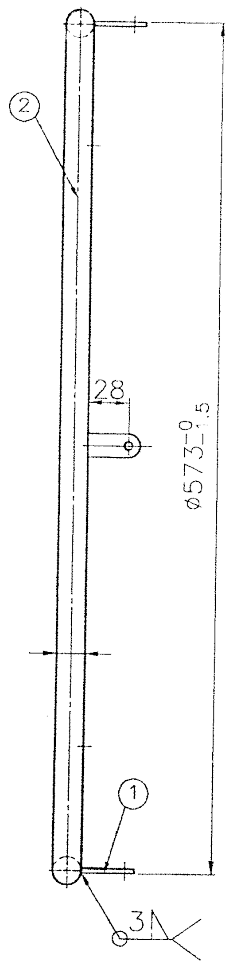
ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR





DGN	NOM	CASTOR FORK
DRN	MTL	AL 60061 EXTRUDED
CHD	HEAT TREATMENT	T6
DIM IN mm	SURFACE TREATMENT	_____
SCALE NTS	DRG No:- TD 2 B 61 H 01	REV 0 SHEET 10F1
APP	DATE 15.01.2018	

Tolerance wherever not specified

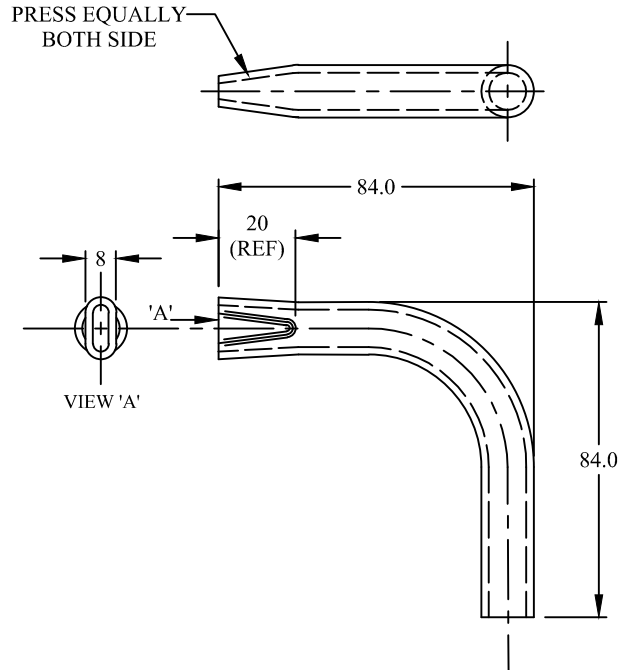
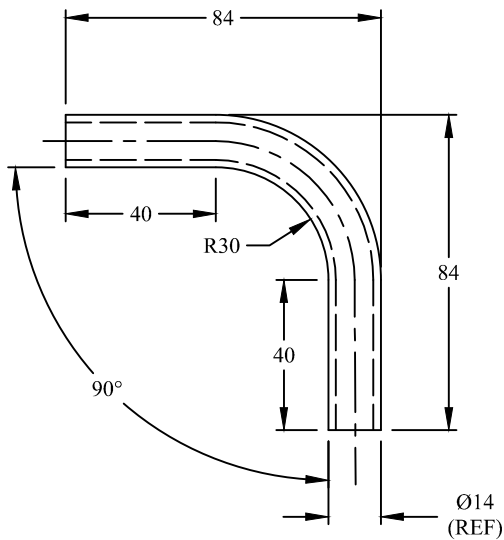
Dim	Tolerance Range		
1 - 16	± 0.2	± 0.3	± 0.4
17 - 63	± 0.2	± 0.5	± 0.7
64 - 250	± 0.3	± 0.7	± 1.0
250 - 960	± 0.5	± 0.12	± 1.5



2	TD 2 B 36 J C2	HAND RIM	1	
1	TD 2 B 36 J C1	PUSH RING TAB	4	
SL.No	DRAWING No.	NOMENCLATURE	QTY	REMARK

SN.No.	REGION	REVISION	DATE	SIGN
REVISIONS				
 ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR 				
DGN		NOM	STEEL PUSH RIM ASSY FOR 26" WHEEL	
DRN		MTL	---	
CHD		HEAT	---	
DIM	IN mm	TREATMENT	---	
SCALE	NTS	SURFACE TREATMENT	---	
APP		DRG No:-	TD 2 B 36 J C0	REV SHEET 0 1 OF 1
DATE	15.01.2018			

TD2P02/04



PROVISIONAL

NOTE:-
TOLERANCE:--

REMOVE SHARP EDGES & CORNERS
DEVIATION FOR NON TOLERANCED DIMENSIONS
(ISI:2102 MEDIUM)

DIAMETER & LENGTHS BETWEEN	TOLERANCE	LENGTH IN MM OF SHORTER SIDE OF ANGLE UPTO & INCL.	TOLERANCE
0.5 up to 6	±0.1	Up to 10	±1°00'
Over 6 up to 30	±0.2	Over 10 upto 50	±0°30'
Over 30 up to 120	±0.3	Over 50 upto 120	±0°20'
Over 120 up to 315	±0.5	Over 120 upto 400	±0°10'
Over 315 up to 1000	±0.8		
Over 1000 up to 2000	±1.2		
Over 2000 up to 4000	±2.0		

MACHINING FINISH IN MICRONS
 ▽ 8 - 25 ▽▽ 1.6 - 8 ▽▽▽ 0.025 - 1.6 ▽▽▽▽ <0.025

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ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR



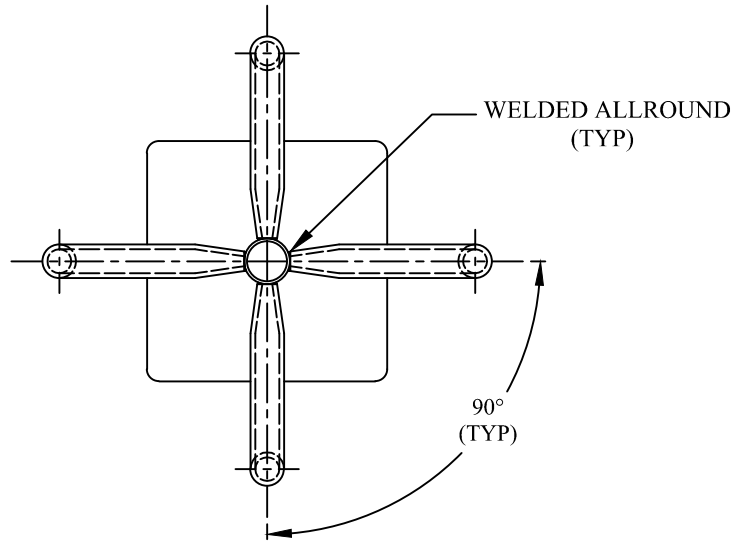
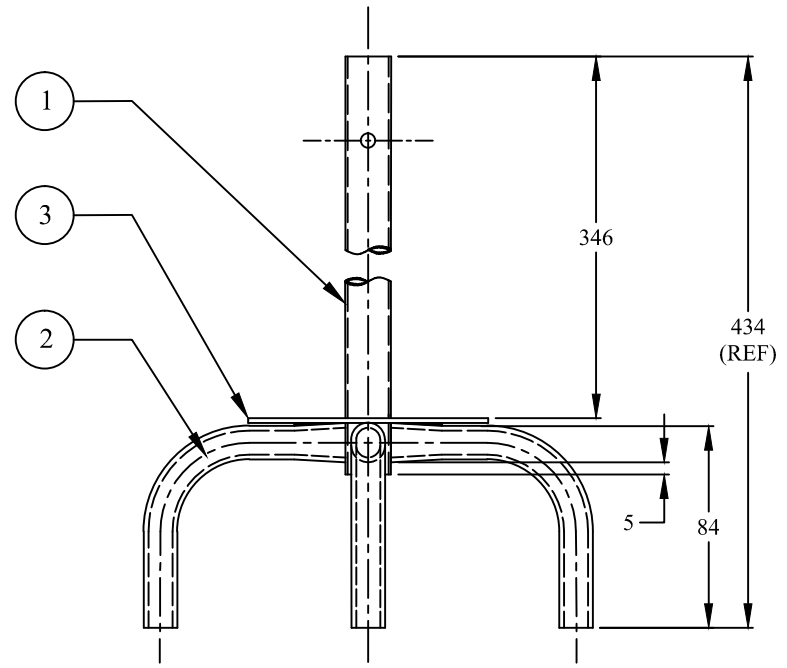
DGN		NOM	LEG TUBE	
DRN		MTL	STEEL TUBE ERW-C1 OD 14 mm, THICK 2mm, ANNEALED (AF 38)	
CHD		HEAT TREATMENT	_____	
DIM	IN mm	SURFACE TREATMENT	_____	
SCALE	NTS			
APP				
DATE	07.02.2017	DRG No:- TD 1 P 02 A 02	SHEET 10F1	

5

4

10 9 8 7 6 5 4 3 2 1

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 P 02 A 01	HEIGHT ADJUSTING TUBE	1	
2.	TD 2 P 02 A 02	LEG TUBE	4	
3.	TD 2 P 02 A 03	LEG PLATE	1	



NOTE:-
1. DRESS ALL WELDED JOINTS.

PROVISIONAL

TOLERANCE:--

DEVIATION FOR NON TOLERANCED DIMENSIONS (IS:2102 (Pt.1) MEDIUM)	
DIAMETER & LENGTHS BETWEEN	LENGTH IN MM OF SHORTER SIDE OF ANGLE UPTO & INCL.
0.5 up to 6 ±0.1	Up to 10 ±1°00'
Over 6 up to 30 ±0.2	Over 10 upto 50 ±0°30'
Over 30 up to 120 ±0.3	Over 50 upto 120 ±0°20'
Over 120 up to 315 ±0.5	Over 120 upto 400 ±0°10'
Over 315 up to 1000 ±0.8	
Over 1000 up to 2000 ±1.2	
Over 2000 up to 4000 ±2.0	

MACHINING FINISH IN MICRONS
 ▽ 8 - 25 ▽▽ 1.6 - 8 ▽▽▽ 0.025 - 1.6 ▽▽▽▽ <0.025

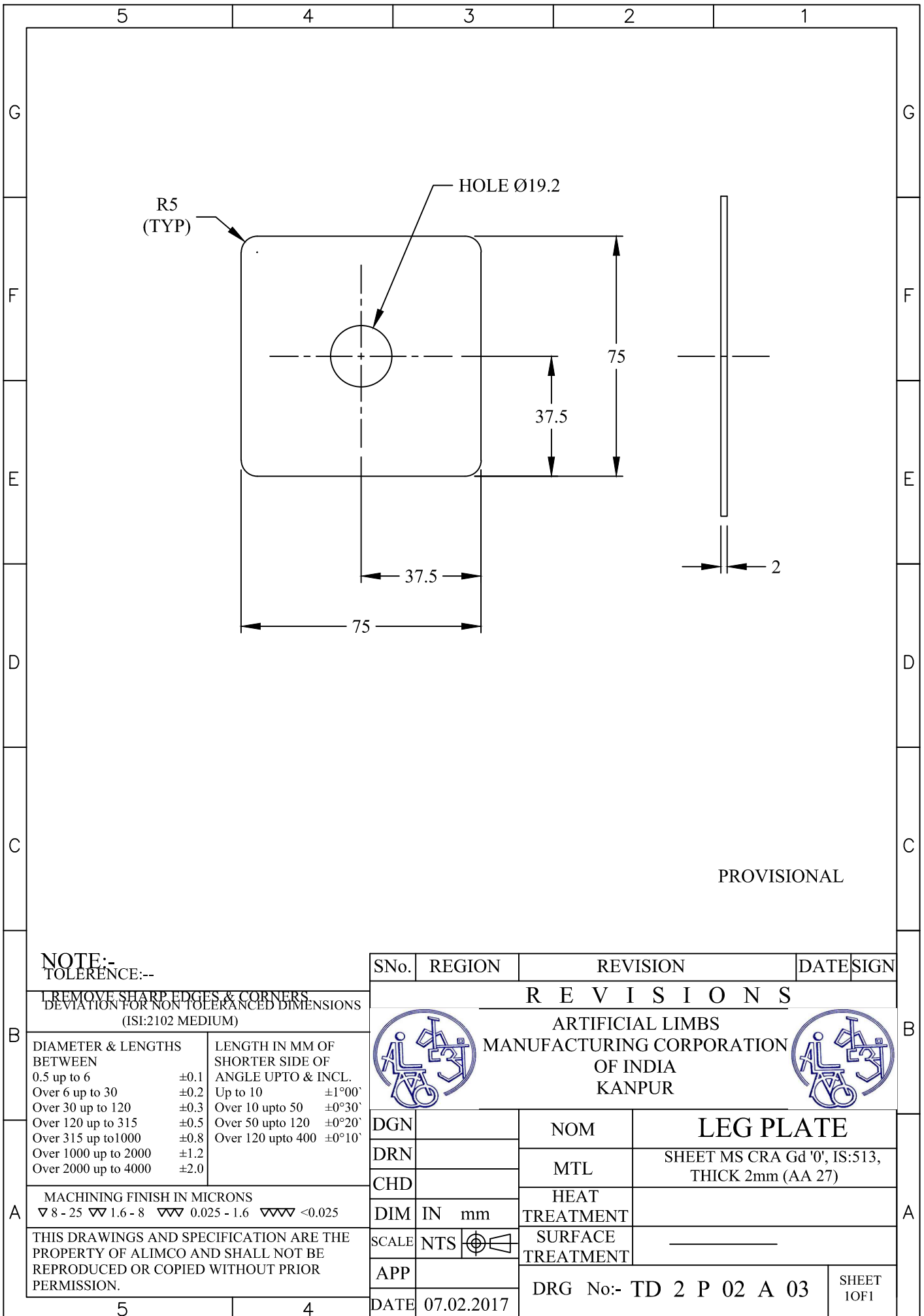
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SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR				
DGN		NOM	LEG TUBE ASSY	
DRN		MTL	_____	
CHD		HEAT	_____	
DIM	IN mm	SURFACE TREATMENT	Ni,Cr. PLATED	
SCALE				
APP				
DATE	08.02.2017	DRG No:- TD 2 P 02 A 00	SHEET 1 OF 1	

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D
C
B
A

G
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B
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10 9 8 7 6 5 4



PROVISIONAL

NOTE:-
TOLERANCE:--

REMOVE SHARP EDGES & CORNERS
DEVIATION FOR NON TOLERANCED DIMENSIONS
(ISI:2102 MEDIUM)

DIAMETER & LENGTHS BETWEEN	TOLERANCE	LENGTH IN MM OF SHORTER SIDE OF ANGLE UPTO & INCL.	TOLERANCE
0.5 up to 6	±0.1	Up to 10	±1°00'
Over 6 up to 30	±0.2	Over 10 upto 50	±0°30'
Over 30 up to 120	±0.3	Over 50 upto 120	±0°20'
Over 120 up to 315	±0.5	Over 120 upto 400	±0°10'
Over 315 up to 1000	±0.8		
Over 1000 up to 2000	±1.2		
Over 2000 up to 4000	±2.0		

MACHINING FINISH IN MICRONS
 ▽ 8 - 25 ▽▽ 1.6 - 8 ▽▽▽ 0.025 - 1.6 ▽▽▽▽ <0.025

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ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR

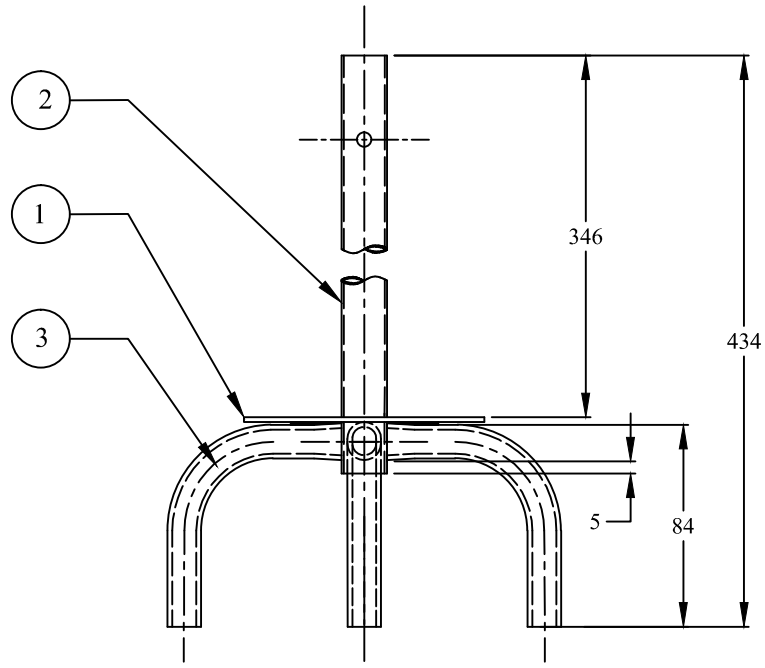


DGN		NOM	LEG PLATE	
DRN		MTL	SHEET MS CRA Gd '0', IS:513, THICK 2mm (AA 27)	
CHD		HEAT TREATMENT		
DIM	IN mm	SURFACE TREATMENT		
SCALE	NTS			
APP				
DATE	07.02.2017	DRG No:- TD 2 P 02 A 03	SHEET 10F1	

5

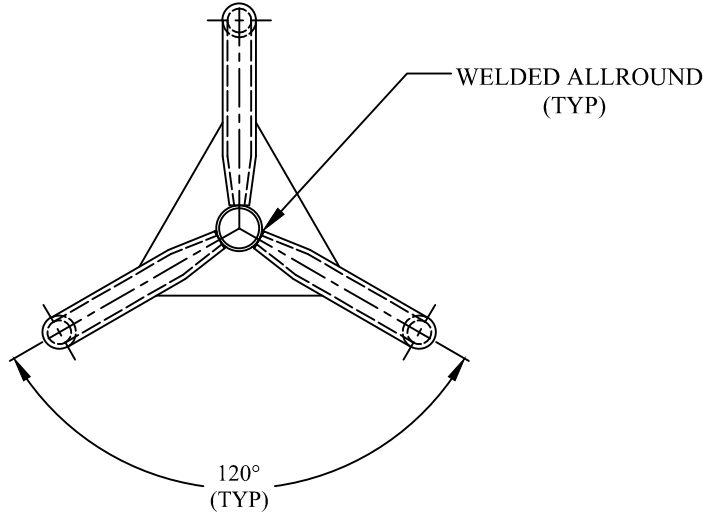
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ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 P 04 A 01	LEG PLATE	1	
2.	TD 2 P 02 A 01	HEIGHT ADJUSTING TUBE	1	
3.	TD 2 P 02 A 02	LEG TUBE	3	



NOTE:-

1. DRESS ALL WELDED JOINTS.



PROVISIONAL

TOLERANCE:--

DEVIATION FOR NON TOLERANCED DIMENSIONS (IS:2102 (Pt.1) MEDIUM)	
DIAMETER & LENGTHS BETWEEN	LENGTH IN MM OF SHORTER SIDE OF ANGLE UPTO & INCL.
0.5 up to 6 ±0.1	Up to 10 ±1°00'
Over 6 up to 30 ±0.2	Over 10 upto 50 ±0°30'
Over 30 up to 120 ±0.3	Over 50 upto 120 ±0°20'
Over 120 up to 315 ±0.5	Over 120 upto 400 ±0°10'
Over 315 up to 1000 ±0.8	
Over 1000 up to 2000 ±1.2	
Over 2000 up to 4000 ±2.0	

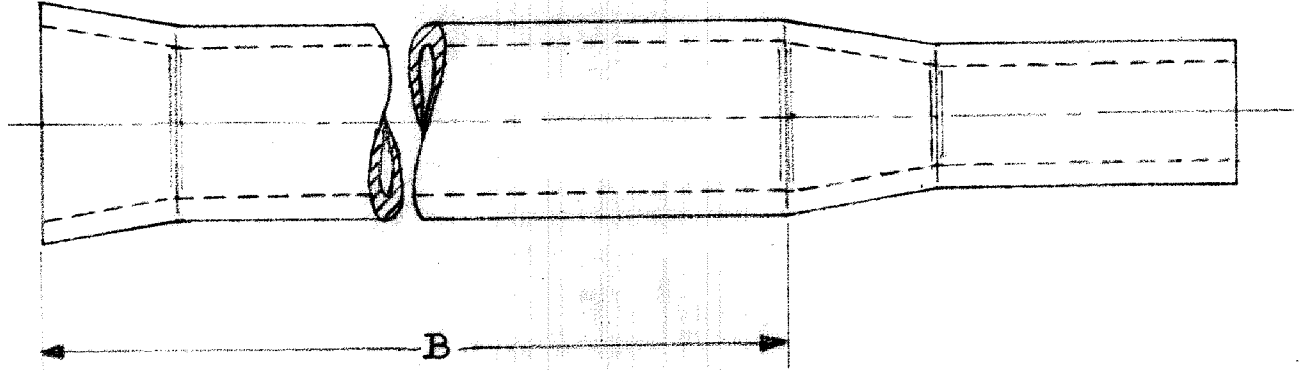
MACHINING FINISH IN MICRONS
 ▽ 8 - 25 ▽▽ 1.6 - 8 ▽▽▽ 0.025 - 1.6 ▽▽▽▽ <0.025

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SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR				
DGN		NOM	LEG TUBE ASSY	
DRN		MTL	_____	
CHD		HEAT	_____	
DIM	IN mm	SURFACE TREATMENT	Ni,Cr. PLATED	
SCALE				
APP				
DATE	08.02.2017	DRG No:- TD 2 P 04 A 00	SHEET 1 OF 1	

TD1N7000

DRG.No.	B
TD 1 N 70 0 0 1	235
TD 1 N 70 0 0 6	205



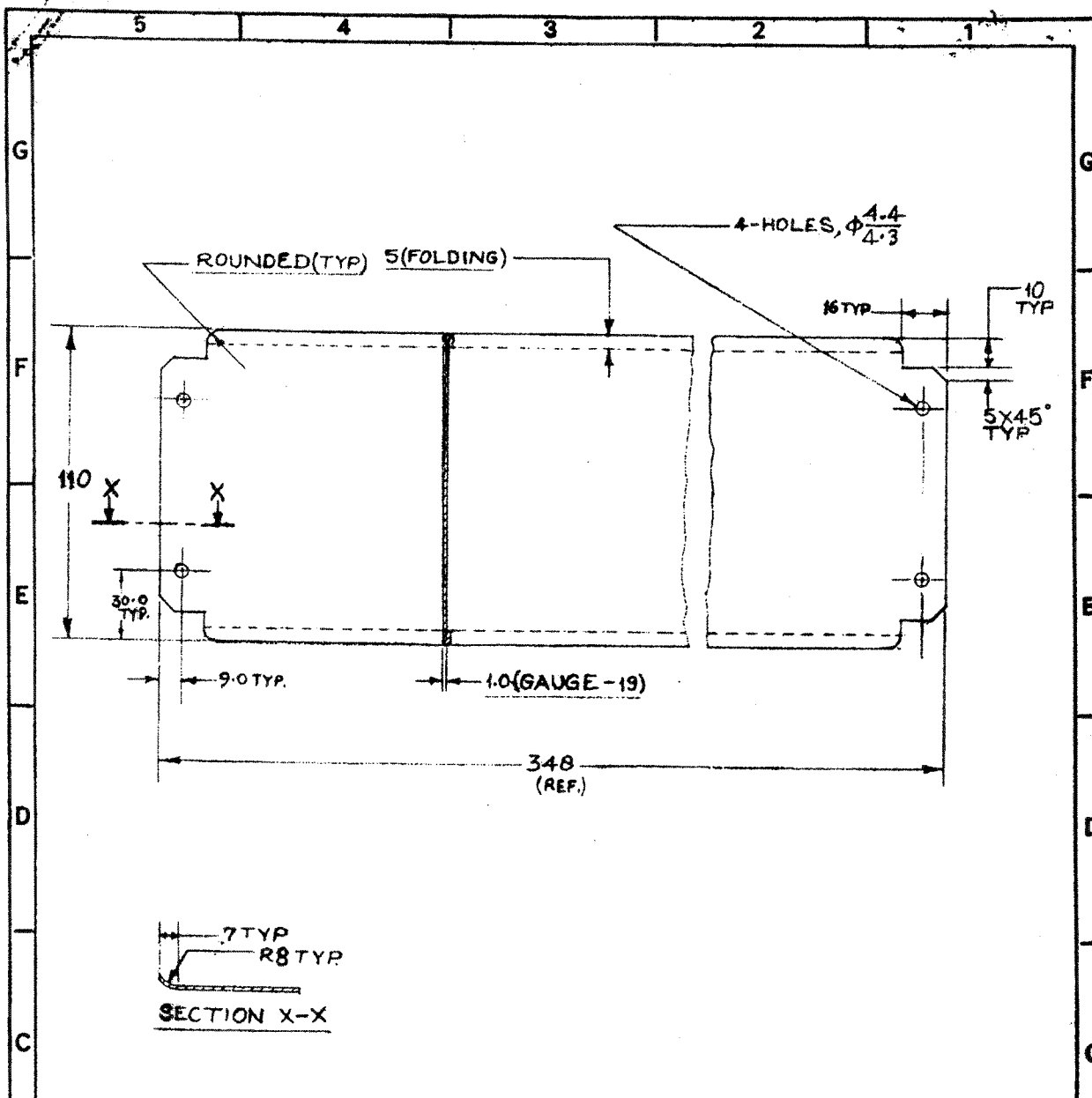
NOTE:—

1. POWDER COATING TO BE DONE ON EXTERNAL SURFACES ALL AROUND IN LENGTH 'B' ONLY, AS SHOWN.
2. FOR COMPONENT DRGS REFER DRG.No.TD1N70 099&TD1N70098

S No.	REGION	REVISION	DATE	SIG.
R E V I S I O N S				
ARTIFICIAL LIMBS				
MANUFACTURING CORPN				
OF INDIA				
KANPUR				
DGN	<i>[Signature]</i>	NOM	LINK	
DRN	<i>[Signature]</i>	MTL	EXTRUDED TUBE AL. ALLOY HV 9	
CHD	<i>[Signature]</i>		OD 12.7x1.6mm THICK, IS: 1285 (AQ 82)	
DIM.	IN mm	TOL	INTEGER ONLY ± 0.500 mm ONE PLACE DECIMAL ± 0.250 mm TWO PLACE DECIMAL ± 0.125 mm UNLESS SPECIFIED	
SCALE	2:1	FIN.	POWDER COATING THICK 20/15 MICRONS	
APP	<i>[Signature]</i>		COLOUR-WHITE, AS APPROVED	
DATE	05.04.05	DRG No.	TD 1 N 70 0 0 1	SHEET 1 OF 1
			TD 1 N 70 0 0 6	

01 K 6 263A

TD2A06000

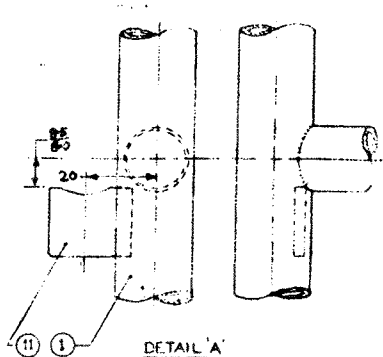


NOTE:

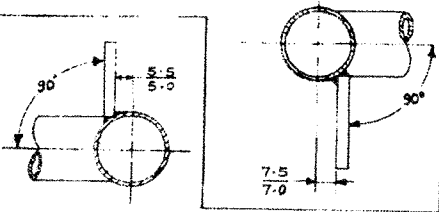
1. REMOVE SHARP EDGES & CORNERS

3.	---	FINISH WAS STOVE ENAMEL PAINT	3.6.14	<i>[Signature]</i>
2.	A-1	MTL. CODE NO. WAS AA 29	21.02.89	<i>[Signature]</i>
1.	A-2	GD. OF MTL. 'DD' WAS 'O'	18.4.89	<i>[Signature]</i>
S.No.	REGION	REVISION	DATE	SIG.
R E V I S I O N S				
ARTIFICIAL LIMBS MANUFACTURING CORPN. OF INDIA KANPUR				
DGN.	<i>[Signature]</i>	NOM.	PLATE GUARD	
DRN.	<i>[Signature]</i>	MTL.	SHEET MS CRA Gd. 'O', IS: 513 THK 1mm (AA22)	
CHD.	<i>[Signature]</i>	TOL.	INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm UNLESS SPECIFIED TWO PLACE DECIMAL ±0.125 mm	
DIM.	IN mm	FIN.	POWDER COATED COLOUR AS APPROVED	
SCALE	1:2	APP.	<i>[Signature]</i>	
DATE	20.8.81	DRG. NO.	TD 2A 06 0 02	SHEET 1 OF 1

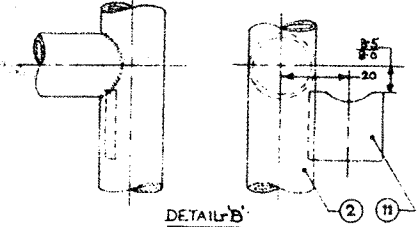
01 K 8 070



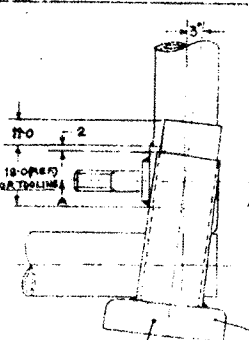
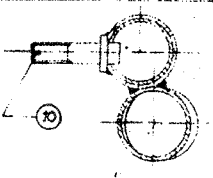
DETAIL A



DETAIL B

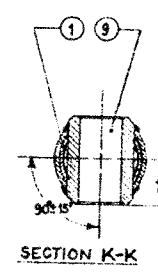


SECTION A-A

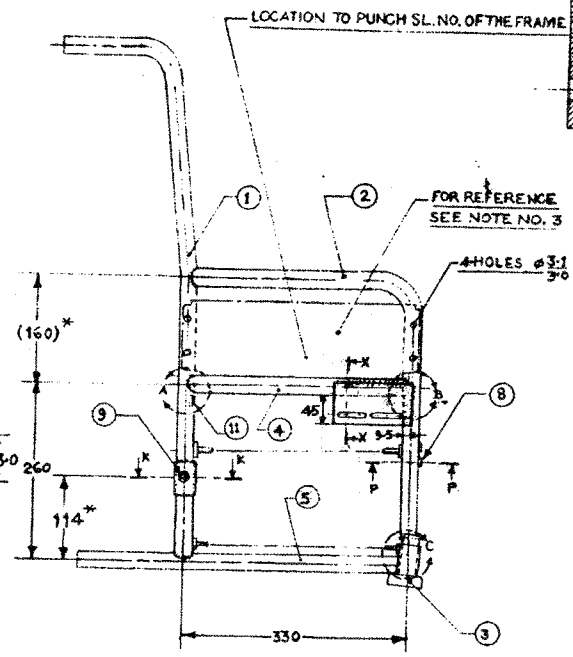


DETAIL C

* THIS MAY BE WELDED WITH TD 2 A 06 A B 0 ALSO



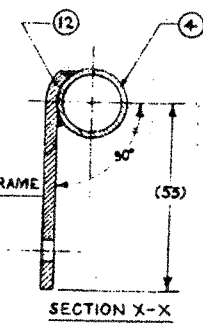
SECTION K-K



FOR REFERENCE SEE NOTE NO. 3

4 HOLES $\phi 3.1/3.0$

SECTION P-P



SECTION X-X

ITEM No.	DRG No.	NOMENCLATURE	No. OF	REMARK
1	TD 2 A 06 A A 0	TUBE REAR ASSY.	1	
2	TD 2 A 06 A B 0	TUBE FRONT ASSY. (RIGHT)	1	
3	TD 2 A 06 A H 0	TUBE ADAPTER ASSY.	1	
4	TD 2 A 06 A 0 1	TUBE UPPER	1	
5	TD 2 A 06 A 0 2	TUBE LOWER	1	
6	TD 2 A 06 A 0 3	BRACKET	DELETED	
7	TD 2 A 06 A 0 4	BUSH BRAKE	DELETED	
8	TD 2 A 06 A 0 5	NUT	2	
9	TD 2 A 07 A 1 1	BUSH AXLE	1	
10	TD 2 A 07 A 1 9	STUD	4	
11	TD 2 A 07 A 2 0	REST RAIL SEAT	2	
12	TD 2 A 07 A 2 5	BRACKET	1	

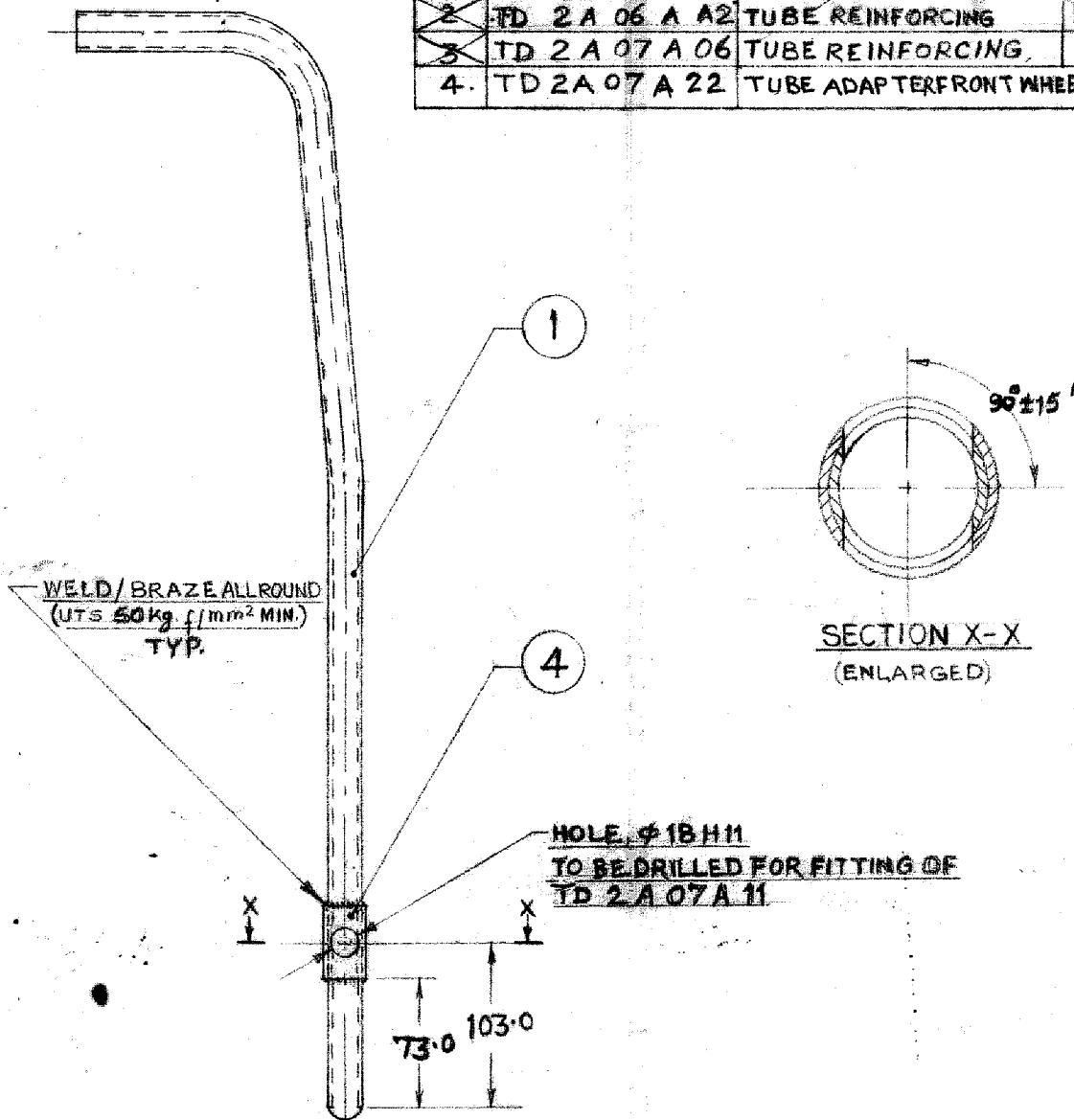
NOTE:-

1. ALL CONSTRUCTION WELD/BRAZED UTS 50 kgf/cm² MIN.
2. ALL WELD/BRAZE TO BE DRESSED AND FINISHED SMOOTH.
3. * REF. DIMENSION FOR WELDING
4. DRILL 4 HOLES $\phi 3.1/3.0$ ON ITEM NO. 1 & 2 ON ONE SIDE ONLY BEFORE PAINTING, USING PLATE GUARD (TD 2 A 06 002) AS TEMPLATE

13.	FINISH WAS STOVE ENAMEL PAINT	4.6.14		
S No.	REGION	REVISION	DATE	SG.
REVISIONS				
ARTIFICIAL LIMBS MANUFACTURING CORPN OF INDIA KANPUR				
DRW	<i>R.K.</i>	CHK	FRAME ASSY. (RIGHT)	
ENR	<i>R.K.</i>	APL		
CHK	<i>R.K.</i>	APL		
DWG	<i>R.K.</i>	TON	DITTED ONLY FOR PLACE ORDER UNLESS SPECIFIED	
SCALE	1:5	FIN.	POWDER COATED COLOUR AS APPROVED	
APP	<i>R.K.</i>	DATE	20.7.81	
DRG No.	TD 2 A 06 A 0 0			SHEET 1 OF 1

01 D 2 015

IT. NO.	DRG. NO.	NOMENCLATURE	NO. OF	REMARK
1	TD 2A 06 A A1	TUBE REAR	1	
2	TD 2A 06 A A2	TUBE REINFORCING	DELETED	
3	TD 2A 07 A 06	TUBE REINFORCING	DELETED	
4	TD 2A 07 A 22	TUBE ADAPTER FRONT WHEEL	1	



3	G-3 <i>KL</i>	ITEM NO. 4 ADDED & ITEM NO. 3 - DELETED	13.1.95	<i>KL</i>
2	C-3 <i>KL</i>	DIM. 103.0 WAS 113.0, 73.0 WAS 83.0	23.9.92	<i>KL</i>
1	G-3 <i>KL</i>	ITEM NO. 3 ADDED 2 DELETED	31.1.92	<i>KL</i>

S.No.	REGION	REVISION	DATE	SIG.
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R E V I S I O N S



**ARTIFICIAL LIMBS
MANUFACTURING CORPN.
OF INDIA
KANPUR**



DGN.	<i>KL</i>	NOM.	TUBE REAR ASSY.
DRN.	<i>KL</i>	MTL.	
CHD.	<i>KL</i>	TOL.	INTEGER ONLY 20.500 mm ONE PLACE DECIMAL 20.250 mm TWO PLACE DECIMAL 20.125 mm
DIM.	IN mm	FIN.	
SCALE	1:5		
APP.	<i>R. K. S.</i>		
DATE	20.7.81	DRG. NO.	TD 2A 06 AA0

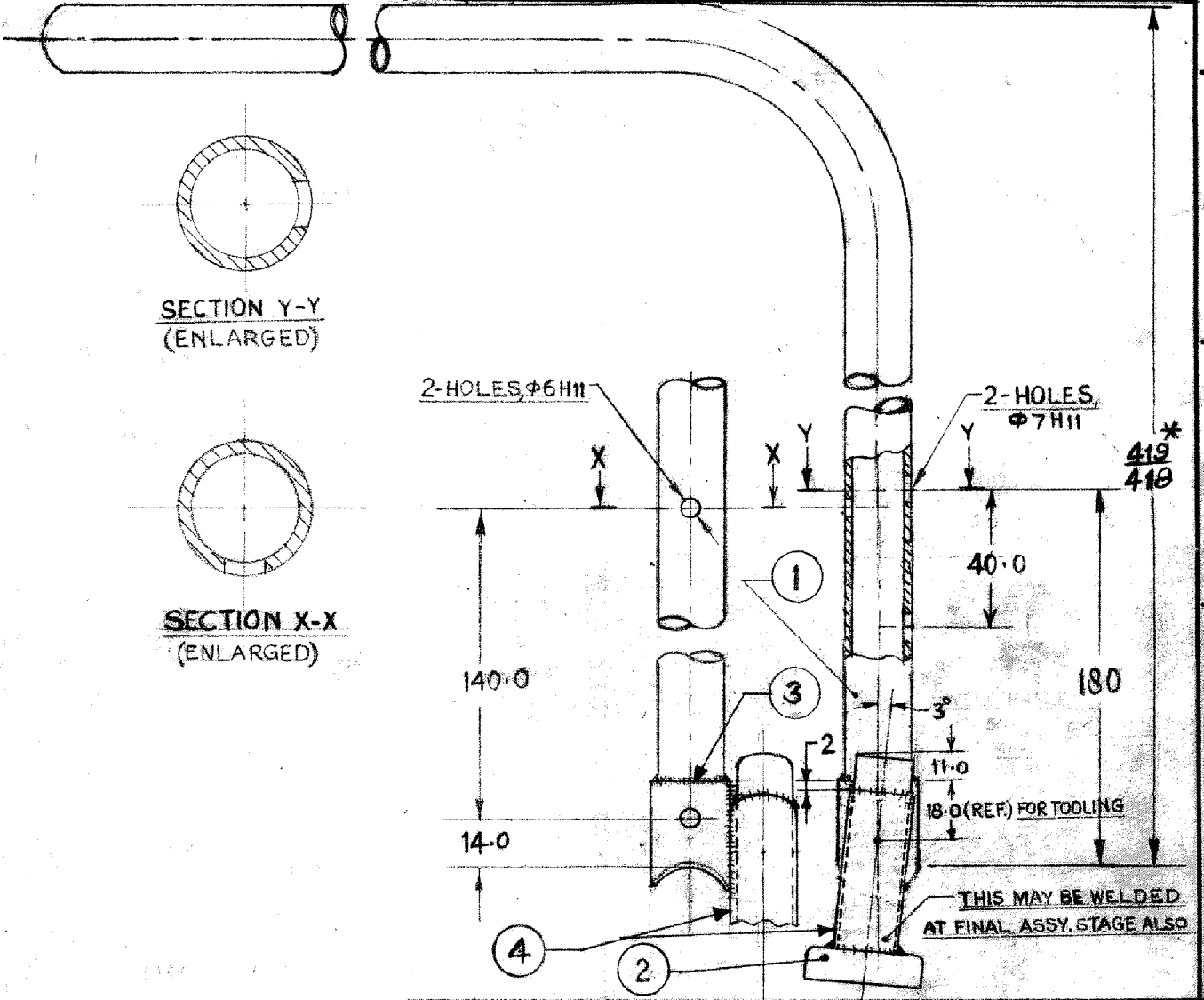
NOTE :-

1. DRESS ALL WELD & FINISH SMOOTH

01 K 8 029

SHEET 1 OF 1

IT. NO.	DRG. NO.	NOMENCLATURE	NO. OFF	REMARK
1	TD 2 A 06 A 81	TUBE FRONT	1	
2	TD 2 A 06 H A0	TUBE ADAPTER ASSY.	1	
3	TD 2 A 07 A 01	EXTENSION FRONT	1	
4	TD 2 A 06 A B2	TUBE ADAPTER FRONT WHEEL	1	
5	TD 2 C 98 J 14	END TUBE		DELETED



S.No.	REGION	REVISION	DATE	SIG.
5	D-2	ITEM No. 4 WITH DIM 2mm ADDED	2-11-93	
4	D-1	DIM. 180 WAS 159 & 40 WAS 20	30-9-91	
3	D-1	3° ANGLE WAS 6°, DIM. 11.0 WAS 7.0	6-2-91	
2	E-1	DIM. 419 DELETED, DIM. 415 ADDED	13-1-82	
1	G-4	FLATTENING ADDED IN ITEM No. 1	16-9-81	

NOTE:-

- DRESS ALL WELD & FINISH SMOOTH.
- * REF. DIMENSION FOR FINAL WELDING.

REVISIONS

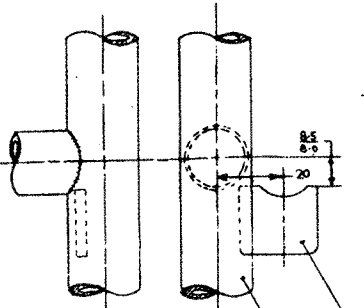
ARTIFICIAL LIMBS MANUFACTURING CORPN. OF INDIA KANPUR

DGN.	<i>Wadhwa</i>	NOM.	TUBE FRONT ASSY. (RIGHT)
DRN.	<i>Khurshid</i>	MTL.	
CHD.	<i>Shahid</i>	TOL.	INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.125 mm UNLESS SPECIFIED
DIM.	IN mm	FIN.	
SCALE	1:2		
APP.	<i>Bygia</i>		
DATE	20-7-81	DRG. NO.	TD 2 A 06 A B0

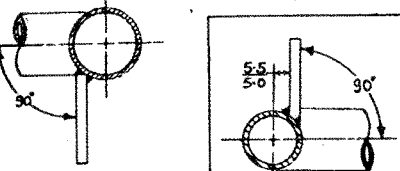
9	E-1	DIM 419/418 WAS 415/414	12-10-11	
8	G-4	FLATTENING DELETED AT ITEM No. 1	01-9-11	
7	G-3	ITEM No. 3 ADDED. ITEM No. 5 DELETED	11-7-99	
6	G-3	ITEM NO. 5 ADDED & ITEM NO. 3 DELETED	13-1-95	
S.No	REG.	REVISION	DATE	SIG.

01 K 8 032

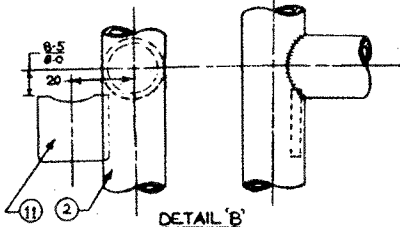
IT.No.	DRG. No.	NAME/CNCLATURE	N-OFF	REMARK
1	TD 2A 06 A A0	TUBE REAR ASSY.	1	
2	TD 2A 06 B A0	TUBE FRONT ASSY.(LEFT)	1	
3	TD 2A 06 H A0	TUBE ADAPTER ASSY.	1	
4	TD 2A 06 A 01	TUBE UPPER	1	
5	TD 2A 06 A 02	TUBE LOWER	1	
6	TD 2A 06 A 03	BRACKET	1	DELETED
7	TD 2A 06 A 04	BUSH BRAKE	1	DELETED
8	TD 2A 06 A 05	NUT	2	
9	TD 2A 07 A 11	BUSH AXLE	1	
10	TD 2A 07 A 18	STUD	4	
11	TD 2A 07 A 20	REST RAIL SEAT	2	
12	TD 2 A 07 A 25	BRACKET	1	



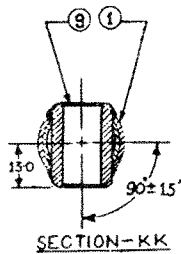
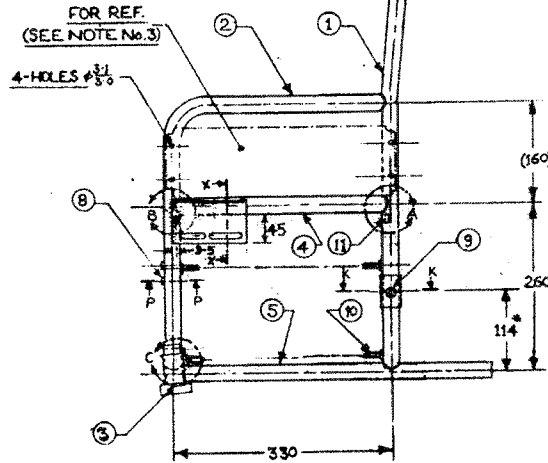
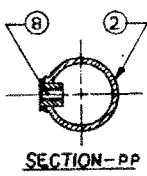
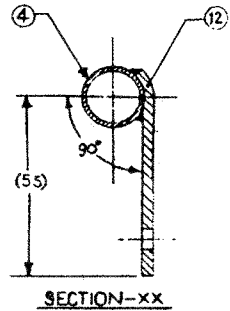
DETAIL 'A'



DETAIL 'B'



DETAIL 'C'

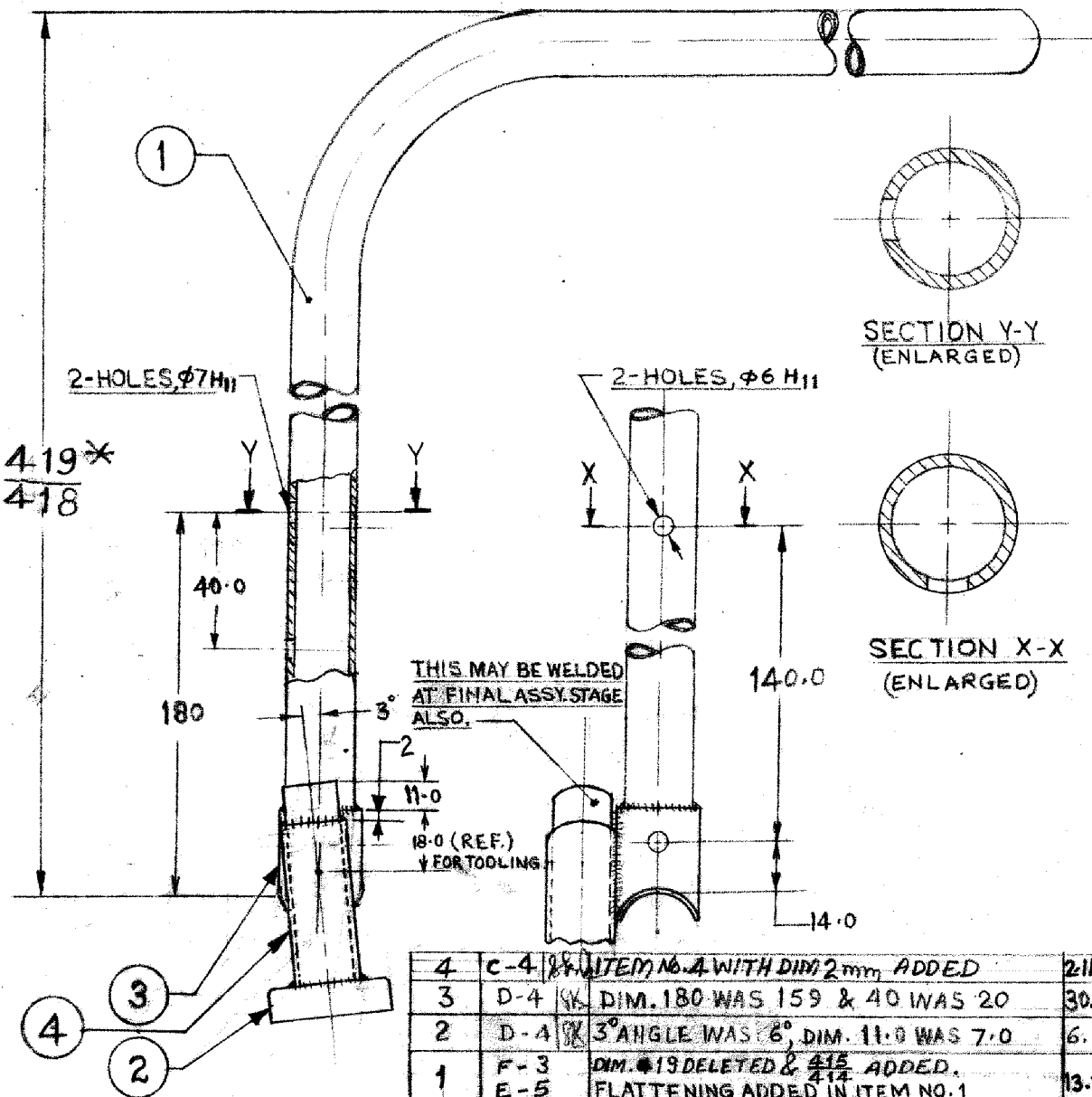


NOTE:-
 1. ALL CONSTRUCTION WELD/BRAZED UTS 50 Kg/cm² MIN.
 2. ALL WELD/BRAZE TO BE DRESSED & FINISHED SMOOTH.
 * 3. REF. DIMENSION FOR WELDING.
 4. DRILL 4- HOLES φ $\frac{3}{8}$ ON ITEM NO. 1 & 2 ON ONE SIDE ONLY BEFORE PAINTING, USING PLATE GUARD(TD 2 A 06 00) AS TEMPLATE

12.	FINISH WAS STOVE ENAMEL PAINT 4.8.14		
S. No.	REGION	REVISION	DATE
ARTIFICIAL LIMBS MANUFACTURING CORPN OF INDIA KANPUR			
DRG.	TD 2A 06 B A0	REV.	01
TITLE	FRAME ASSY. (LEFT)		
SCALE	UNLESS SPECIFIED		
MATERIAL	POWDER COATED COLOUR AS APPROVED		
DATE	20.7.81	DRG. No	TD 2 A 06 B 00

01 D 2 016

IT. NO.	DRG. NO.	NOMENCLATURE	NO. OFF	REMARKS
1	TD 2 A 06 A B1	TUBE FRONT	1	
2	TD 2 A 06 H A0	TUBE ADAPTER ASSY.	1	
3	TD 2 A 07 A 01	EXTENSION FRONT	1	
4	TD 2 A 06 A B2	TUBE ADAPTER FRONT WHEEL	1	
5	TD 2 C 98 J 14	END TUBE		DELETED



4	C-4	ITEM NO. 4 WITH DIM 2mm ADDED	2.11.93	
3	D-4	DIM. 180 WAS 159 & 40 WAS 20	30.9.91	
2	D-4	3° ANGLE WAS 6°, DIM. 11.0 WAS 7.0	6.2.91	
1	F-3 E-5	DIM. 19 DELETED & 415 ADDED. FLATTENING ADDED IN ITEM NO. 1	13.1.82	

S No.	REGION	REVISION	DATE	SIG.
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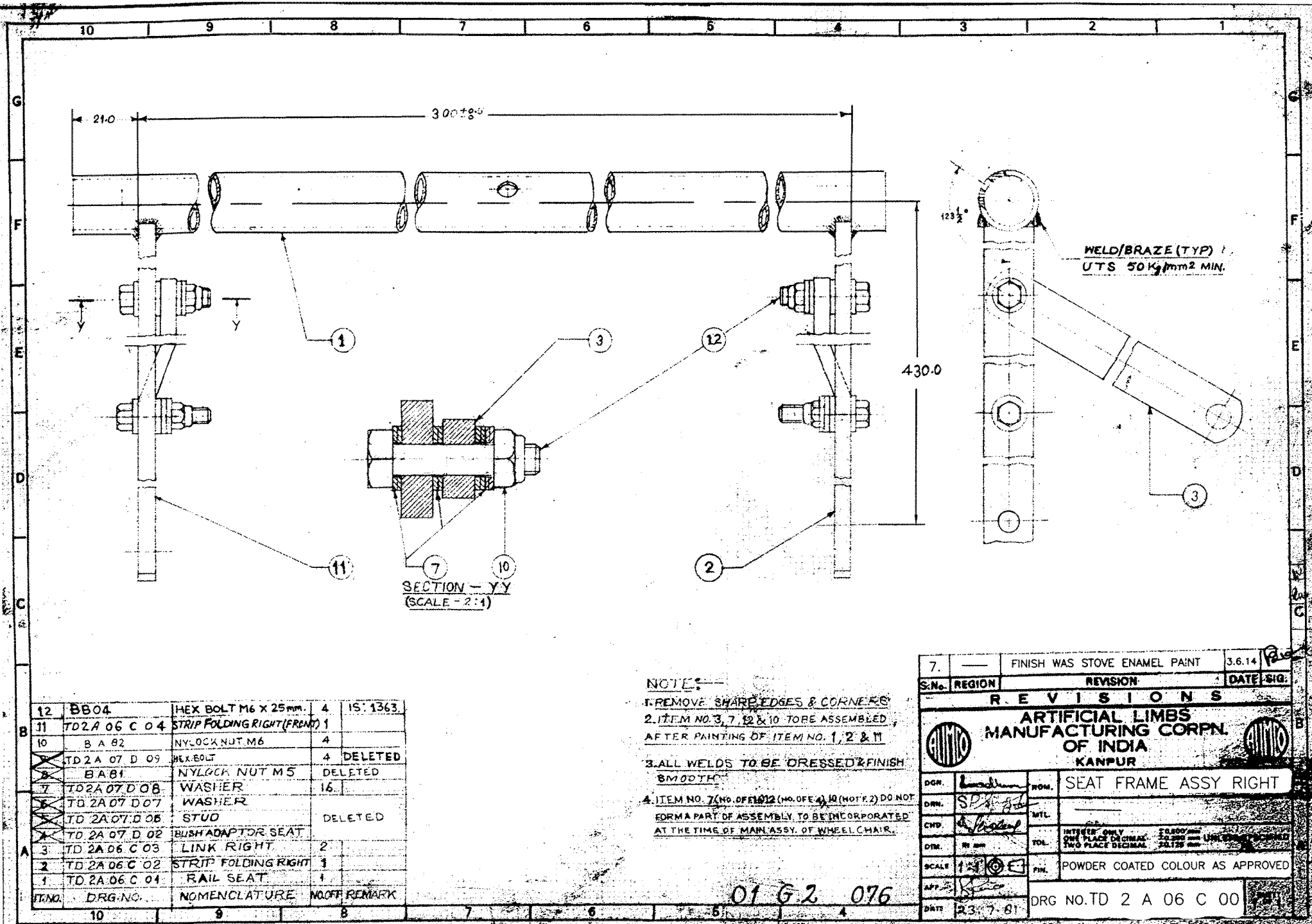
R E V I S I O N S

**ARTIFICIAL LIMBS
MANUFACTURING CORPN
OF INDIA
KANPUR**

DGN	<i>Madhwal</i>	NOM	TUBE FRONT ASSY. (LEFT)
DRN	<i>SKrishna</i>	MTL	
CHD	<i>Shahul</i>	TOL	INTEGER ONLY ± 0.500 mm ONE PLACE DECIMAL ± 0.250 mm TWO PLACE DECIMAL ± 0.125 mm UNLESS SPECIFIED
DIM.	IN mm	SCALE	1:2
SCALE	1:2	FIN.	
APP	<i>Puller</i>	DATE	16.9.81
DRG No.	TD 2 A 06 B A0	SHEET	1 OF 1

NOTE:-
1. DRESS ALL WELD & FINISH SMOOTH.
2. * REF. DIM. FOR FINAL WELDING.

8	E-5	DIM 419/418 WAS 415/414	10.10.11	
7	E-2	FLATTENING DELETED AT ITEM NO. 1	01.9.11	
6	G-3	ITEM NO. 3 ADDED. ITEM NO. 5 DELETED	11.5.98	
5	G-3	ITEM NO. 5 ADDED & ITEM NO. 3 DELETED	13.1.85	
NO	REG.	REVISION.	DATE	SIG.
01		K8	076	



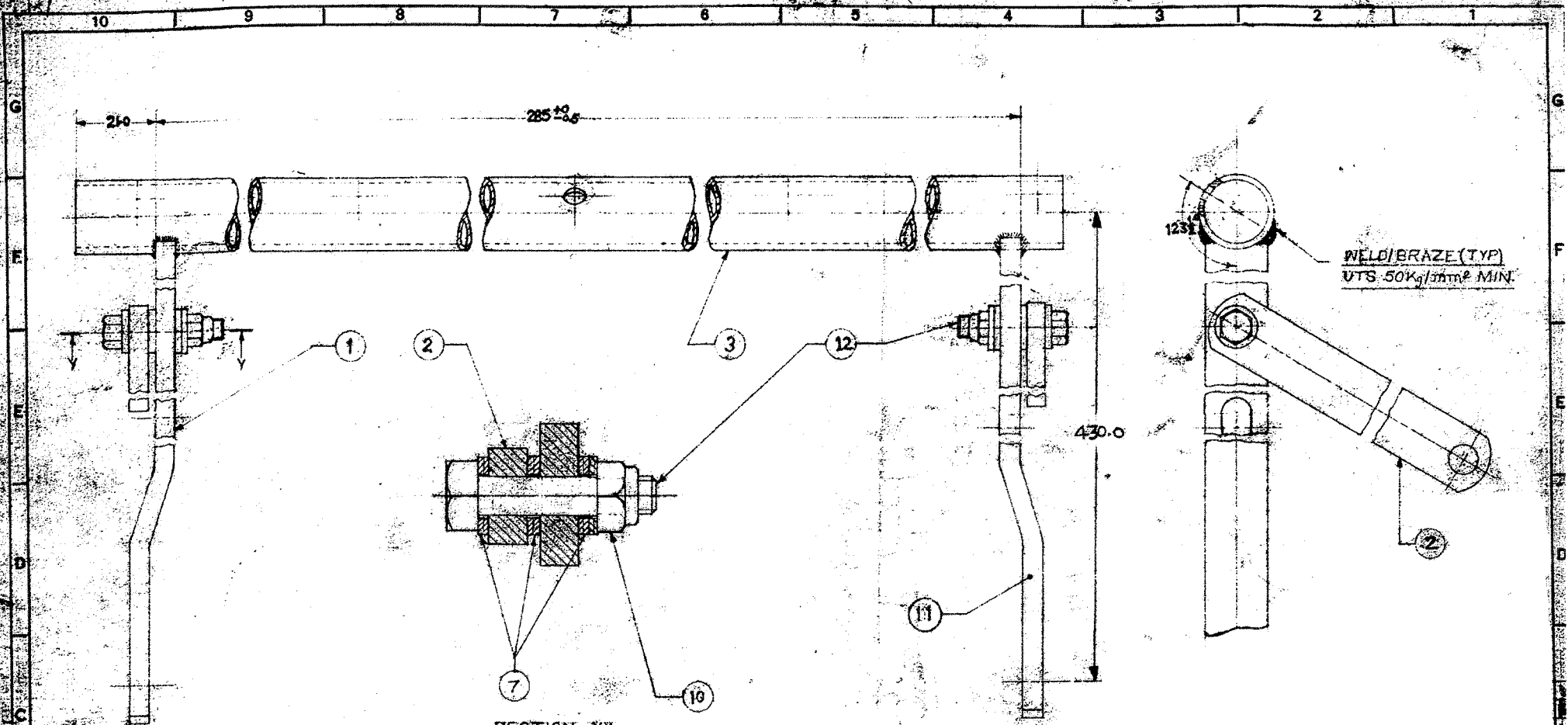
ITNO.	DRG. NO.	NOMENCLATURE	NO. OFF.	REMARK
12	BB04	HEX BOLT M6 X 25mm.	4	IS: 1363.
11	TD2A 06 C 04	STRIP FOLDING RIGHT (FRONT)	1	
10	B A 82	NYLOCK NUT M6	4	
9	TD 2A 07 D 09	HEX. BOLT	4	DELETED
8	B A 81	NYLOCK NUT M5	DELETED	
7	TD 2A 07 D 08	WASHER	16	
6	TD 2A 07 D 07	WASHER		
5	TD 2A 07 D 06	STUD		DELETED
4	TD 2A 07 D 02	BUSH ADAPTOR SEAT		
3	TD 2A 06 C 03	LINK RIGHT	2	
2	TD 2A 06 C 02	STRIP FOLDING RIGHT	1	
1	TD 2A 06 C 01	RAIL SEAT	1	
ITNO.	DRG. NO.	NOMENCLATURE	NO. OFF.	REMARK

SECTION - Y-Y
(SCALE - 2:1)

- NOTE:-
1. REMOVE SHARP EDGES & CORNERS
 2. ITEM NO. 3, 7, 12 & 10 TO BE ASSEMBLED AFTER PAINTING OF ITEM NO. 1, 2 & 11
 3. ALL WELDS TO BE DRESSED & FINISH SMOOTH
 4. ITEM NO. 7 (NO. OF 12 (NO. OF 4) 10 (NO. OF 2) DO NOT FORM A PART OF ASSEMBLY TO BE INCORPORATED AT THE TIME OF MAIN ASSY. OF WHEEL CHAIR.

01 G.2 076

7.	FINISH WAS STOVE ENAMEL PAINT	3.6.14	<i>Patel</i>
S.No.	REGION	REVISION	DATE/SIG.
REVISIONS			
ARTIFICIAL LIMBS MANUFACTURING CORPN. OF INDIA KANPUR			
DGN.	<i>Madhu</i>	NOM.	SEAT FRAME ASSY RIGHT
DRN.	<i>S.P. 82</i>	MTL.	
CWD.	<i>S. K. 82</i>	TOL.	INTERIOR ONLY ONE PLACE DECIMAL TWO PLACE DECIMAL
DTM.	IN mm	FIN.	POWDER COATED COLOUR AS APPROVED
SCALE	1:2		
APP.	<i>S. K. 82</i>		
DATE	23.7.81	DRG NO.	TD 2 A 06 C 00



SECTION - YY
SCALE - 2:1

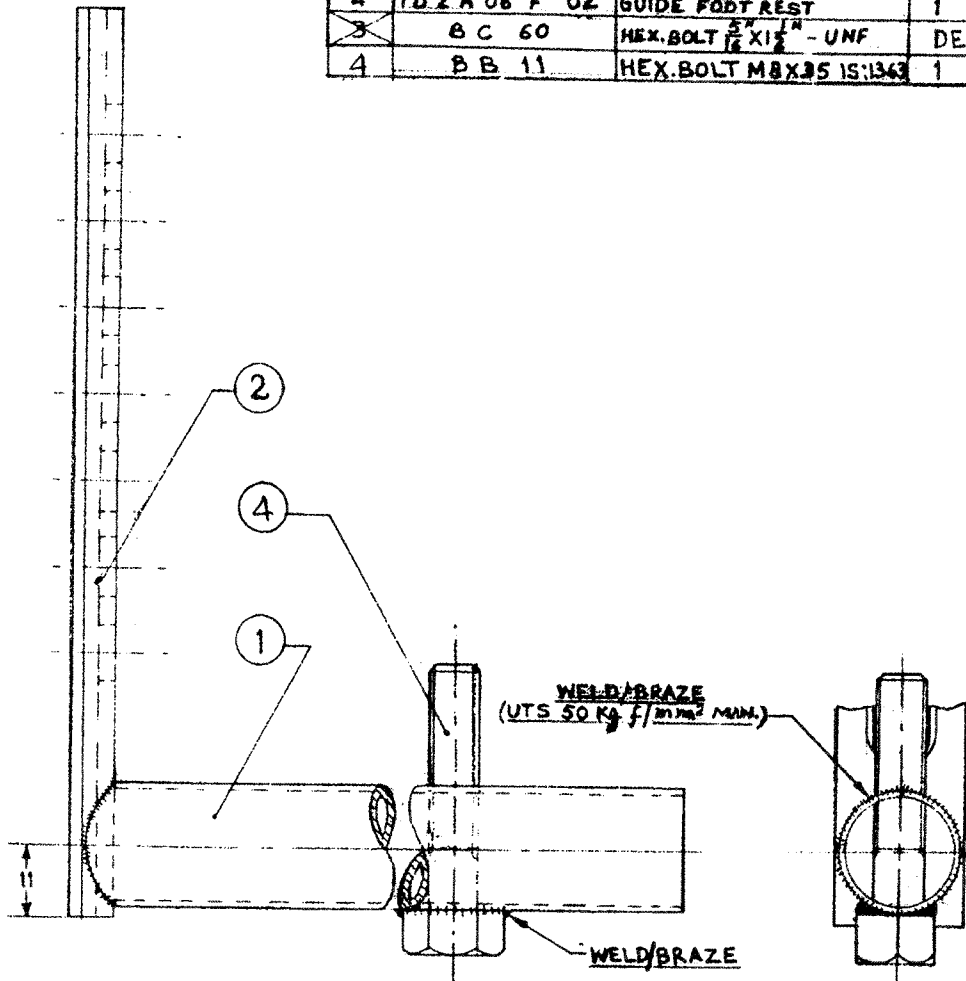
12	BB04	HEX BOLT M6 X 25mm	2	IS: 1363
11	TD 2 A 06 D 03	STRIP FOLDING LEFT (FRONT)	1	
10	BA 02	NYLOCK NUT M6	2	
9	TD 2 A 07 D 09	HEX BOLT	2	DELETED
8	BA 01	NYLOCK NUT M5	DELETED	
7	TD 2A 07 D 08	WASHER	8	
6	TD 2A 07 D 07	WASHER	DELETED	
5	TD 2A 07 D 06	STUD	DELETED	
4	TD 2A 07 D 02	BUSH ADPTOR SEAT		
3	TD 2A 06 D 01	RAIL SEAT	1	
2	TD 2A 06 D 02	LINK LEFT	2	
1	TD 2A 06 D 01	STRIP FOLDING LEFT	1	
10	DRG NO	NOMENCLATURE	NO OF REMARK	

NOTE:-
 1. REMOVE SHARP EDGES AND CORNERS.
 2. ITEM NO. 2, 7, 12 & 10 TO BE ASSEMBLED AFTER PAINTING.
 3. ALL WELDS TO BE DRESSED & FINISH SMOOTH.

7.	FINISH WAS STOVE ENAMEL PAINT	3.6.14
S.N.	REGION	REVISION
R E V I S I O N S		
ARTIFICIAL LIMBS MANUFACTURING CORPN OF INDIA KANPUR		
DATE	BY	SEAT FRAME ASSY LEFT
CHKD	SP	
APPD	MS	
SCALE	1:1	
DATE	23.7.91	
DRG NO. TD 2 A 06 D 00		

01 162 07/7

IT. NO.	DRG. NO.	NOMENCLATURE	NO. OFF	REMARKS
1	TD 2 A 06 F 01	TUBE FOOTREST	1	
2	TD 2 A 06 F 02	GUIDE FOOT REST	1	
3	BC 60	HEX. BOLT $\frac{5}{16}$ X $1\frac{1}{2}$ - UNF		DELETED
4	BB 11	HEX. BOLT M8 X 35 IS:1343	1	



NOTE:-

1. WELDS TO BE FINISHED FLUSH & SMOOTH BEFORE PLATING.

4.	---	FINISH WAS STOVE ENAMEL PAINT	3.6.14	
3	A-1 to 3	FIN. WAS STOVE ENAMEL PAINT COLOUR AS APPROVED.	22.5	RKM
2	G-3	ITEM NO. 3 DELETED & 4 ADDED.	23.9.86	LN
1	D-3	ITEM NO. 3 ADDED, FIN. WAS NICK PLATED	11.8.87	L

S No.	REGION	REVISION	DATE	SIG.
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R E V I S I O N S


**ARTIFICIAL LIMBS
MANUFACTURING CORPN
OF INDIA
KANPUR**

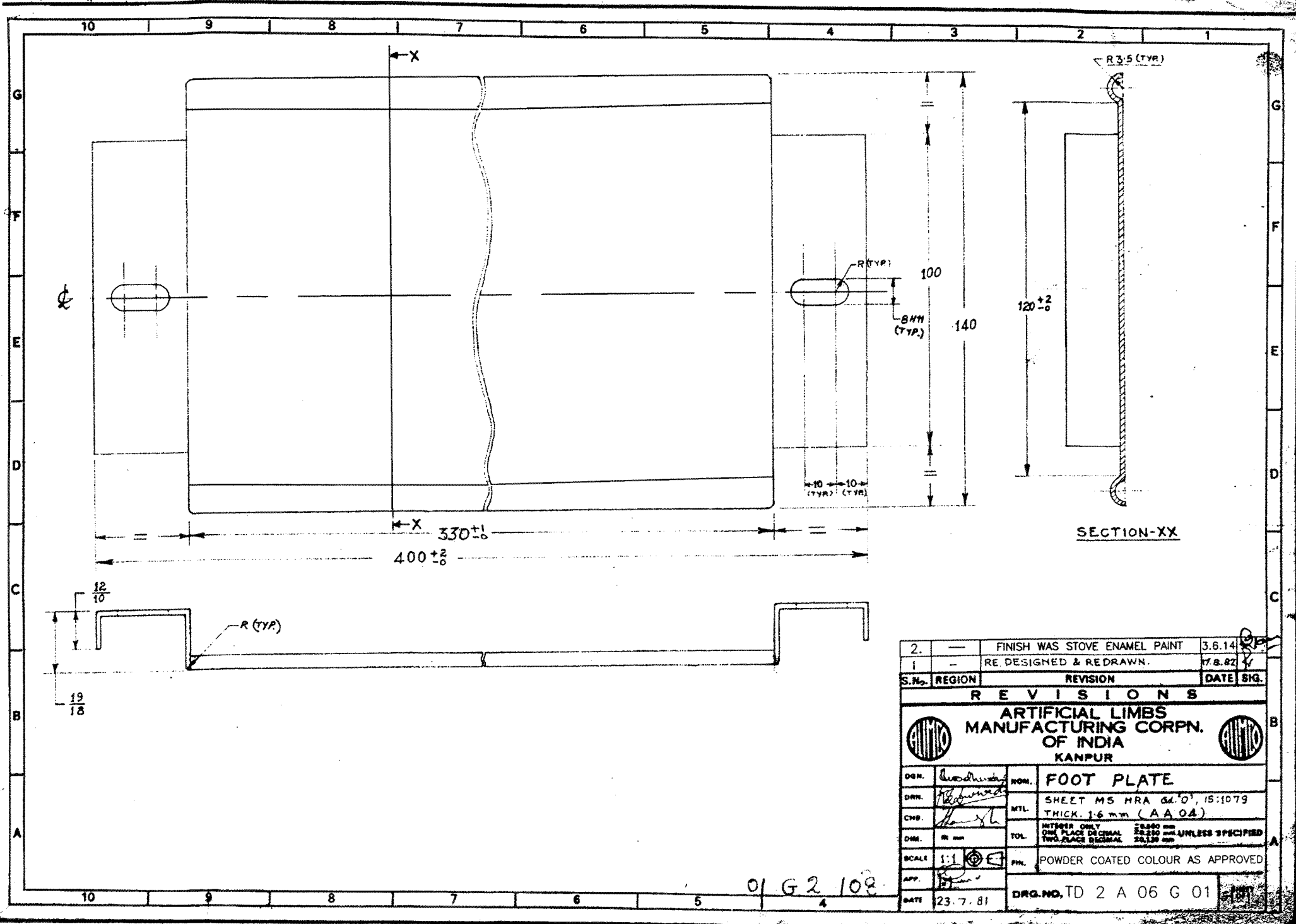

DGN	<i>Aradhana</i>	NOM	FOOT REST SUPPORT ASSY.
DRN	<i>Krishna</i>	MTL	
CHD	<i>Manoj</i>	TOL	INTEGER ONLY ± 0.500 mm ONE PLACE DECIMAL ± 0.250 mm TWO PLACE DECIMAL ± 0.125 mm UNLESS SPECIFIED
DIM.	IN mm	FIN.	POWDER COATED COLOUR AS APPROVED
SCALE	1:1	APP	
DATE	23.7.81	DRG No.	TD 2 A 06 F 00

01 | K | 8 | 046

5

4

SHEET 1 OF 1



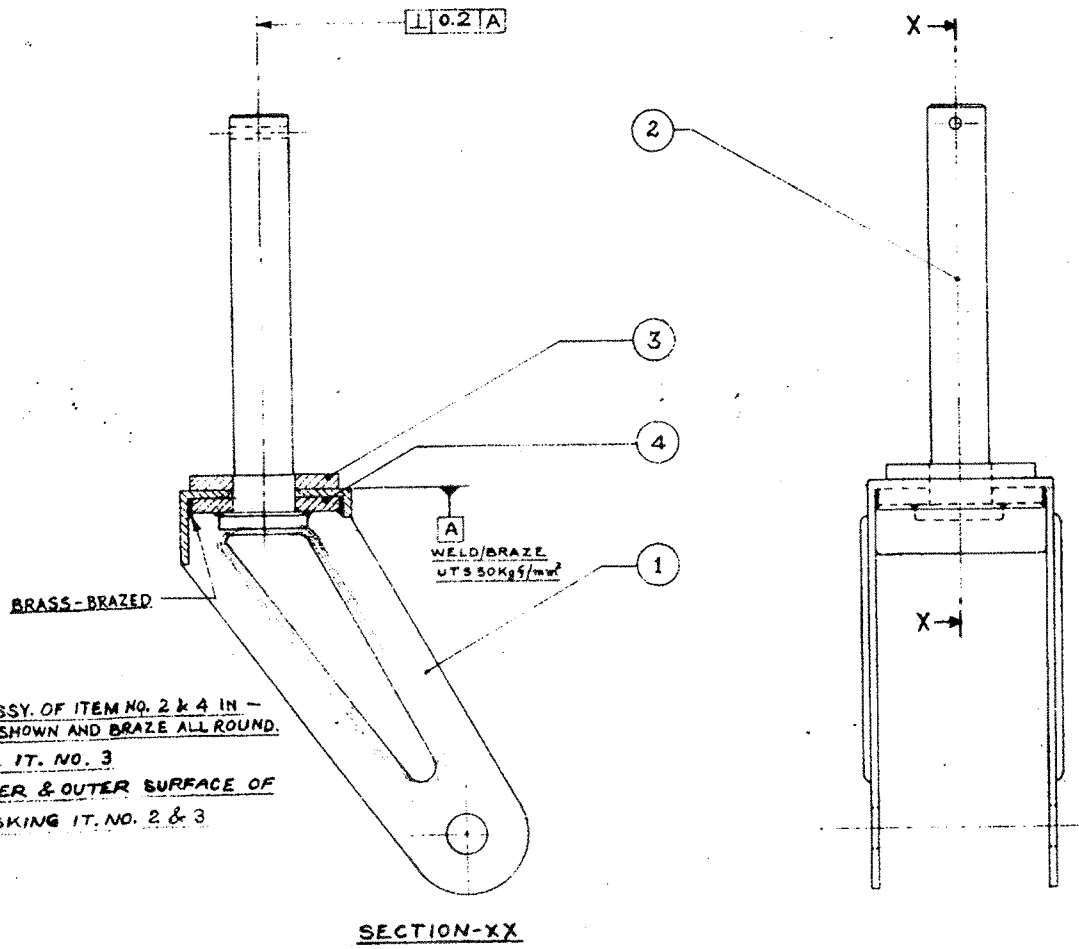
2.	—	FINISH WAS STOVE ENAMEL PAINT	3.6.14	
1	—	RE DESIGNED & REDRAWN.	17.8.82	
S.No.	REGION	REVISION	DATE	SG.

REVISIONS

**ARTIFICIAL LIMBS
MANUFACTURING CORPN.
OF INDIA
KANPUR**

DES.	<i>[Signature]</i>	NON.	FOOT PLATE
DRN.	<i>[Signature]</i>	MTL.	SHEET MS MRA Gd. 0', IS:1079
CHK.	<i>[Signature]</i>	TOL.	THICK. 1.6 mm (AA 04)
DWG.	IN mm	<small>HITZER ONLY 25.000 mm ONE PLACE DECIMAL 25.250 mm UNLESS SPECIFIED TWO PLACE DECIMAL 25.125 mm</small>	
SCALE	1:1	FIN.	POWDER COATED COLOUR AS APPROVED
APP.	<i>[Signature]</i>	DRG. NO.	TD 2 A 06 G 01
DATE	23.7.81		

ITEM NO.	DRG. NO.	NOMENCLATURE	NO. OFF	REMARK.
1	TD 2 A 06 H B1	FORK	1	
2	TD 2 A 06 H B2	STEM	1	
3	TD 2 A 06 H B3	PLATE BEARING - LOWER	1	
4	TD 2 A 06 H B4	PLATE STIFFNER	1	



NOTE:-

1. POSITION ASSY. OF ITEM NO. 2 & 4 IN - ITEM NO. 1 AS SHOWN AND BRAZE ALL ROUND.
2. PRESS FIT IT. NO. 3
3. PAINT INNER & OUTER SURFACE OF IT. NO. 1 MASKING IT. NO. 2 & 3

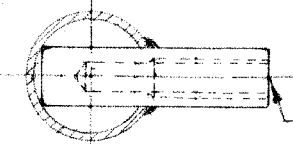
SECTION-XX

3.	---	FINISH WAS STOVE ENAMEL PAINT	4.6.14	<i>[Signature]</i>
2.	E-8	UNDER CUT DELETED & HOLE ADDED AT IT. NO. 2	31.8.82	<i>[Signature]</i>
1.	S-4, B-10	ITEM NO. 4 ADDED & NOTE NO. 1 MODIFIED	1978	<i>[Signature]</i>
S.No.	REGION	REVISION	DATE	SIG.

REVISIONS				
ARTIFICIAL LIMBS MANUFACTURING CORPN. OF INDIA KANPUR				
DBN.	<i>[Signature]</i>	NON.	FORK STEM ASSY.	
DRN.	<i>[Signature]</i>	MTL.		
CHD.	<i>[Signature]</i>	TOL.	<small> WITHIN 0.015 ONE PLACE DECIMAL TWO PLACE DECIMAL 0.005 mm 0.0125 mm 0.025 mm UNLESS SPECIFIED </small>	
SCALE	1:1	FIN.	POWDER COATED COLOUR AS APPROVED	
APP.	<i>[Signature]</i>	DRG NO.	TD 2 A 06 H B0	
DATE	11-4-81			

01 G2 067

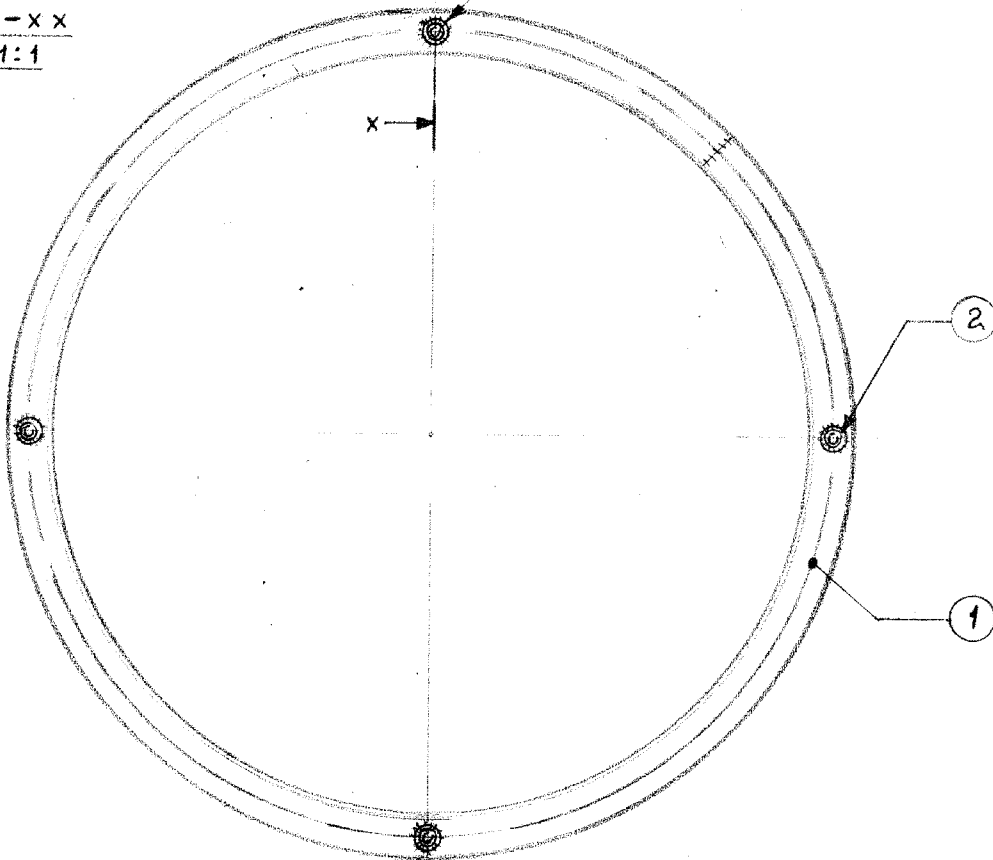
IT. NO.	DRG. NO.	NOM	NO. OFF	REMARK
1	TD 2A 06 J C 1	HAND RIM	1	
2	TD 2A 06 J C 2	NUT	4	



THREADED END THIS SIDE

WELDED TYP.

SECTION - X X
SCALE - 1:1

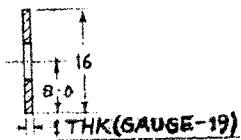
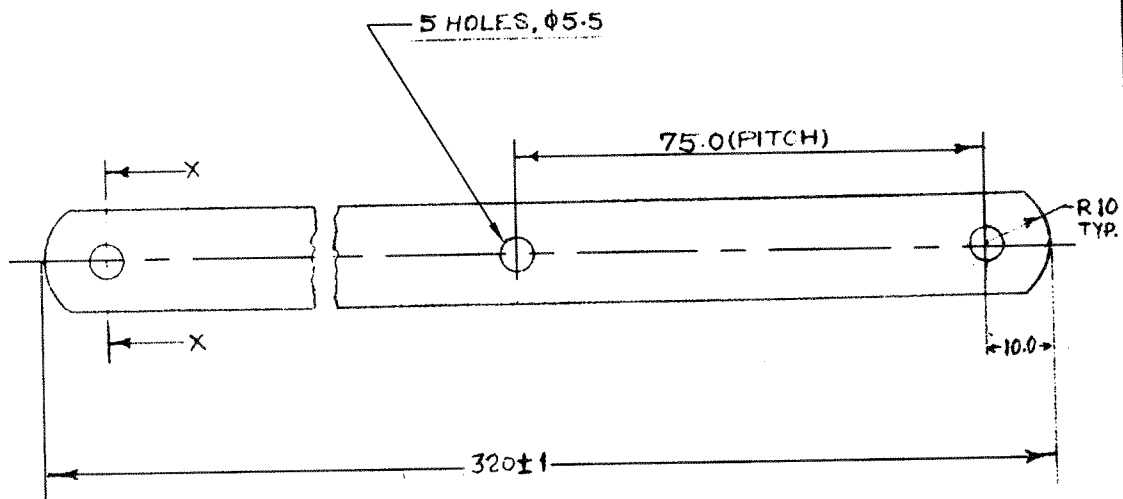


1	F-4	NOTE IN SECTION X-X ADDED	1.3.82	
S No.	REGION	REVISION	DATE	SIG.
R E V I S I O N S				
ARTIFICIAL LIMBS MANUFACTURING CORPN OF INDIA KANPUR				
DGN	<i>Basalwan</i>	NOM	HAND RIM ASSY	
DRN	<i>Shing</i>	MTL		
CHD	<i>Shalax</i>	TOL	INTEGER ONLY ± 0.500 mm ONE PLACE DECIMAL ± 0.250 mm TWO PLACE DECIMAL ± 0.125 mm UNLESS SPECIFIED	
DIM.	IN mm	FIN.	Ni-cr. PLATED Gd-2 IS: 1068	
SCALE	1:4	APP		
DATE	10.0.81	DRG No.	TD 2A 06 J C 0	SHEET 1 OF 1



QL | K | 8 | 055

5

4



SECTION - X X

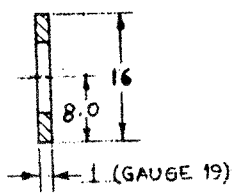
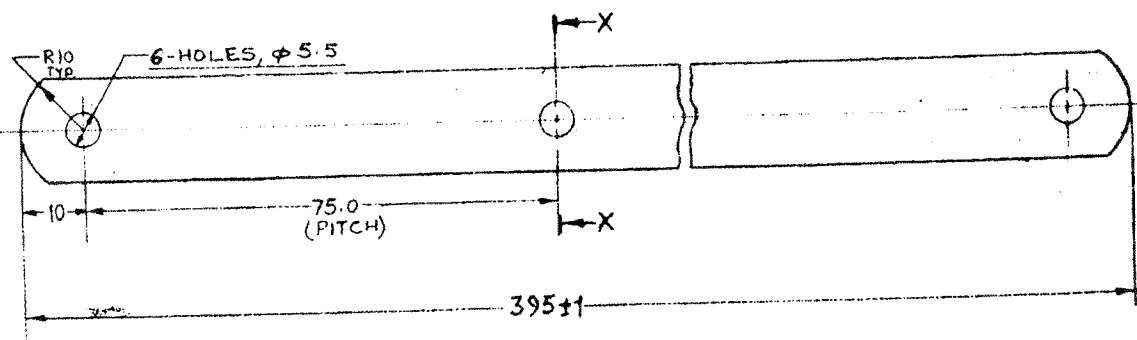
1.	—	FINISH WAS PHOSPHATED Gd.A1, IS:6005	3.6.14	<i>Q10</i>
S.No.	REGION	REVISION	DATE	SIG.
R E V I S I O N S				
 ARTIFICIAL LIMBS MANUFACTURING CORPN. OF INDIA  KANPUR				
DGN.	<i>Ramachandran</i>	NOM.	STRIP REINFORCING	
DRN.	<i>SP Singh</i>	MTL.	SHEET MS, HRA Gd.'0' IS: 4079 (AA02) OR SHEET M.S.CRA Gd.'0' IS: 513 (AA22)	
CHD.	<i>Kalpal</i>	TOL.	INTEGER ONLY 28.500 mm ONE PLACE DECIMAL 28.300 mm TWO PLACE DECIMAL 28.125 mm UNLESS SPECIFIED	
DIM.	mm	FIN.	POWDER COATED COLOUR AS APPROVED	
SCALE	1:1			
APP.	<i>Blua</i>	DRG. NO. TD 2A 06 K 01		
DATE	10.8.01	SHEET 1/1		

01 K8 064

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SECTION X-X
(ENLARGED)

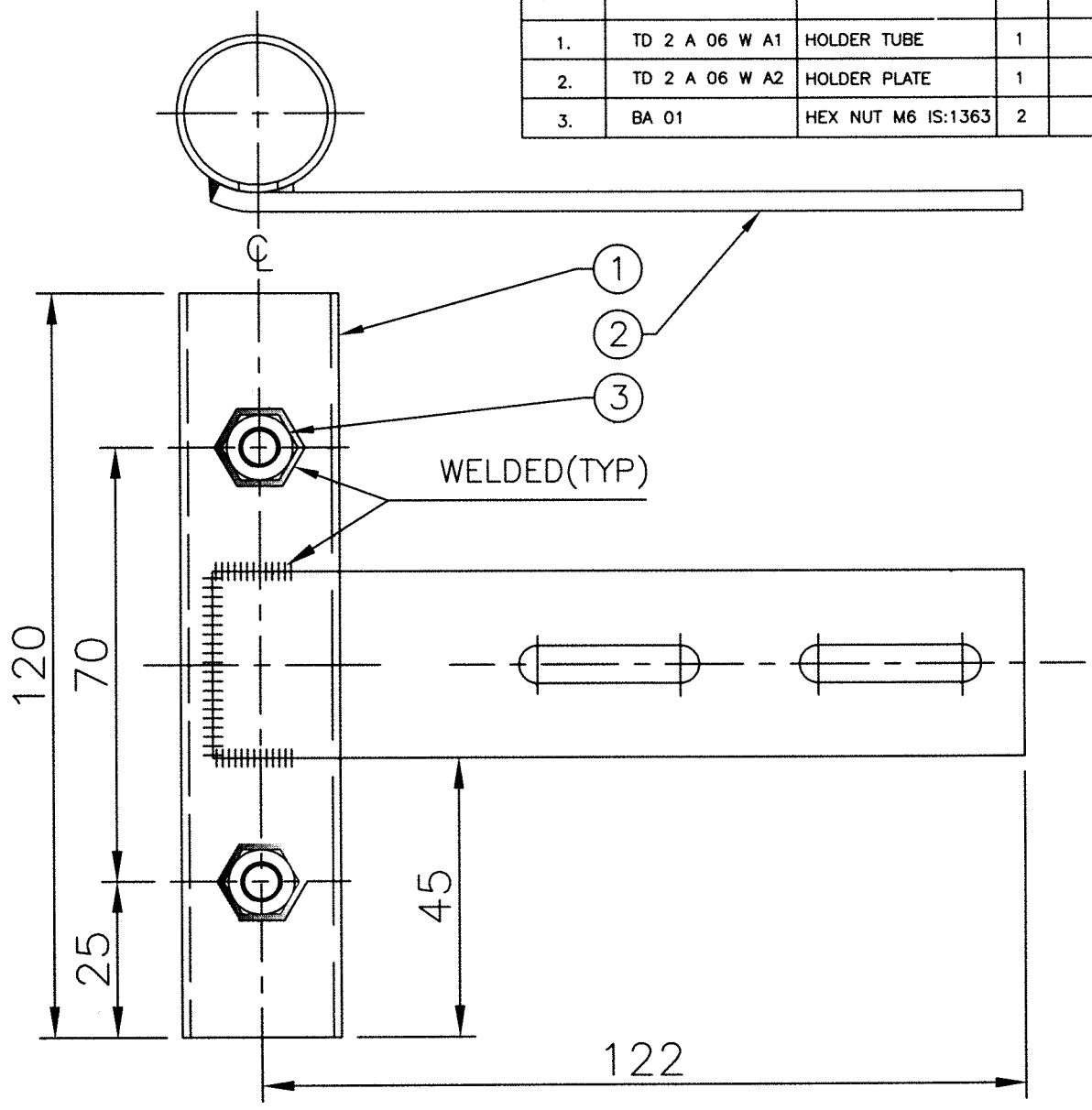
NOTE:-
1. DEBURR SHARP EDGES & CORNERS.

2.		FINISH WAS PHOSPHATED Gd.A1,IS:6005	3.6.14	<i>gla</i>
1	F.5	DIM. 325 WAS 170, & HOLES 45.5 WERE 7	16.9.72	<i>aw</i>
S.No.	REGION	REVISION	DATE	SIG.
R E V I S I O N S				
ARTIFICIAL LIMBS MANUFACTURING CORPN. OF INDIA KANPUR				
DGN.	<i>Madani</i>	NOM.	STRIP REINFORCING	
DRN.	<i>Krishna</i>	MTL.	SHEET MS HRA Gd.'O' IS:1079 (AA 02) OR	
CHD.	<i>Shahul</i>	MTL.	SHEET MS CRA Gd.'O' IS: 513 (AA 22)	
QNT.	IN MM	TOL.	INTEGER ONLY 20.500 mm ONE PLACE DECIMAL 20.250 mm TWO PLACE DECIMAL 20.125 mm UNLESS SPECIFIED	
SCALE	1:1	FIN.	POWDER COATED COLOUR AS APPROVED	
APP.	<i>Prasad</i>	DRG.NO. TD 2 A 06 L 02		
DATE	10.8.81			

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ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 A 06 W A1	HOLDER TUBE	1	
2.	TD 2 A 06 W A2	HOLDER PLATE	1	
3.	BA 01	HEX NUT M6 IS:1363	2	



NOTE:-

1.DRESS ALL WELDED JOINTS

SNo.	REGION	REVISION	DATE	SIGN
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REVISIONS



ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR



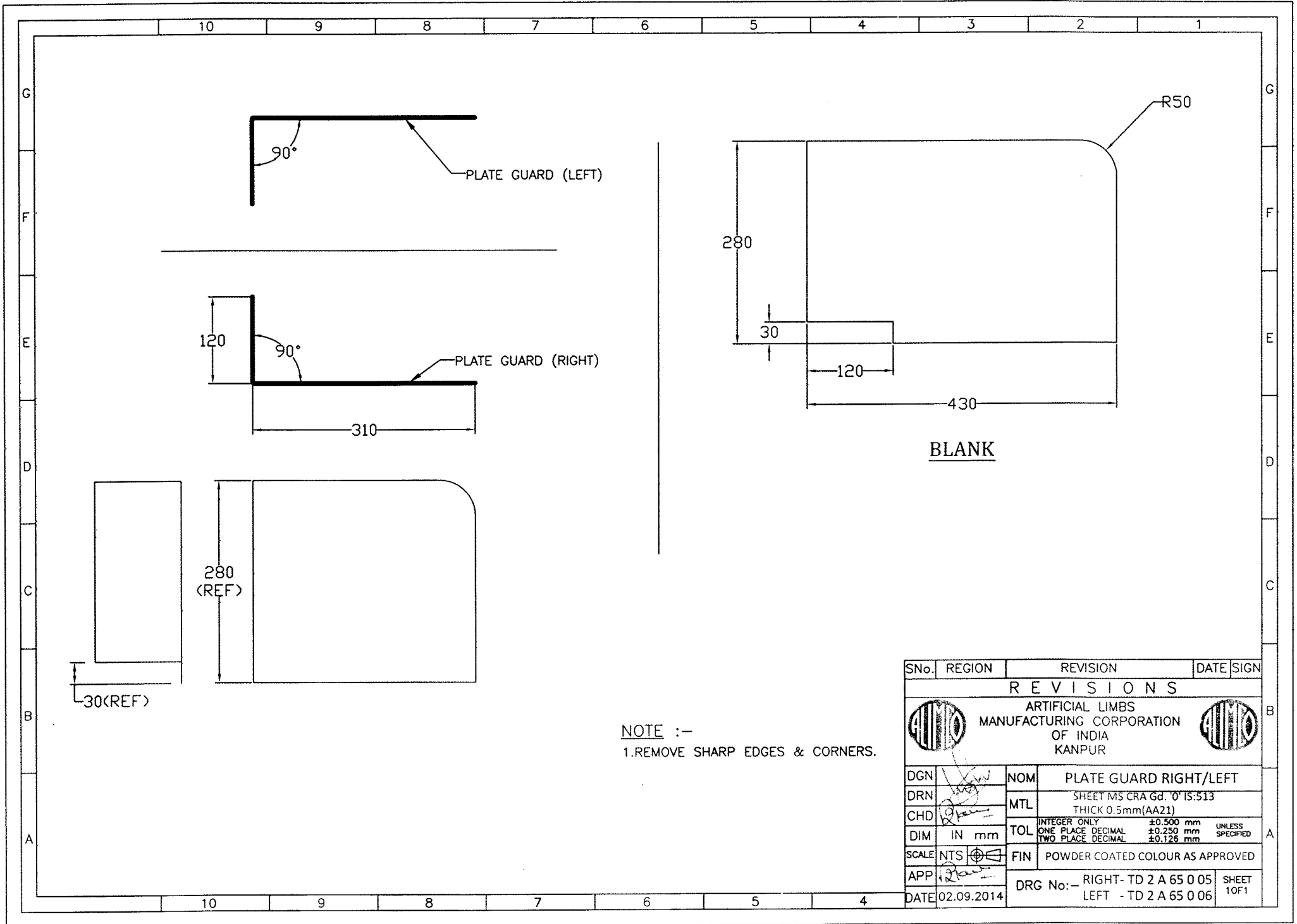
DGN	<i>Bisw</i>	NOM	TABLE HOLDER ASSY	
DRN	<i>Chd</i>	MTL	_____	
CHD	<i>Bisw</i>	TOL	INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.126 mm	UNLESS SPECIFIED
DIM	IN mm	FIN	POWDER COATED COLOUR AS APPD	
SCALE	NTS	APP	DRG No:-TD 2 A 06 W A0	
DATE	11.09.12	SHEET	10F1	

01 K 8 371

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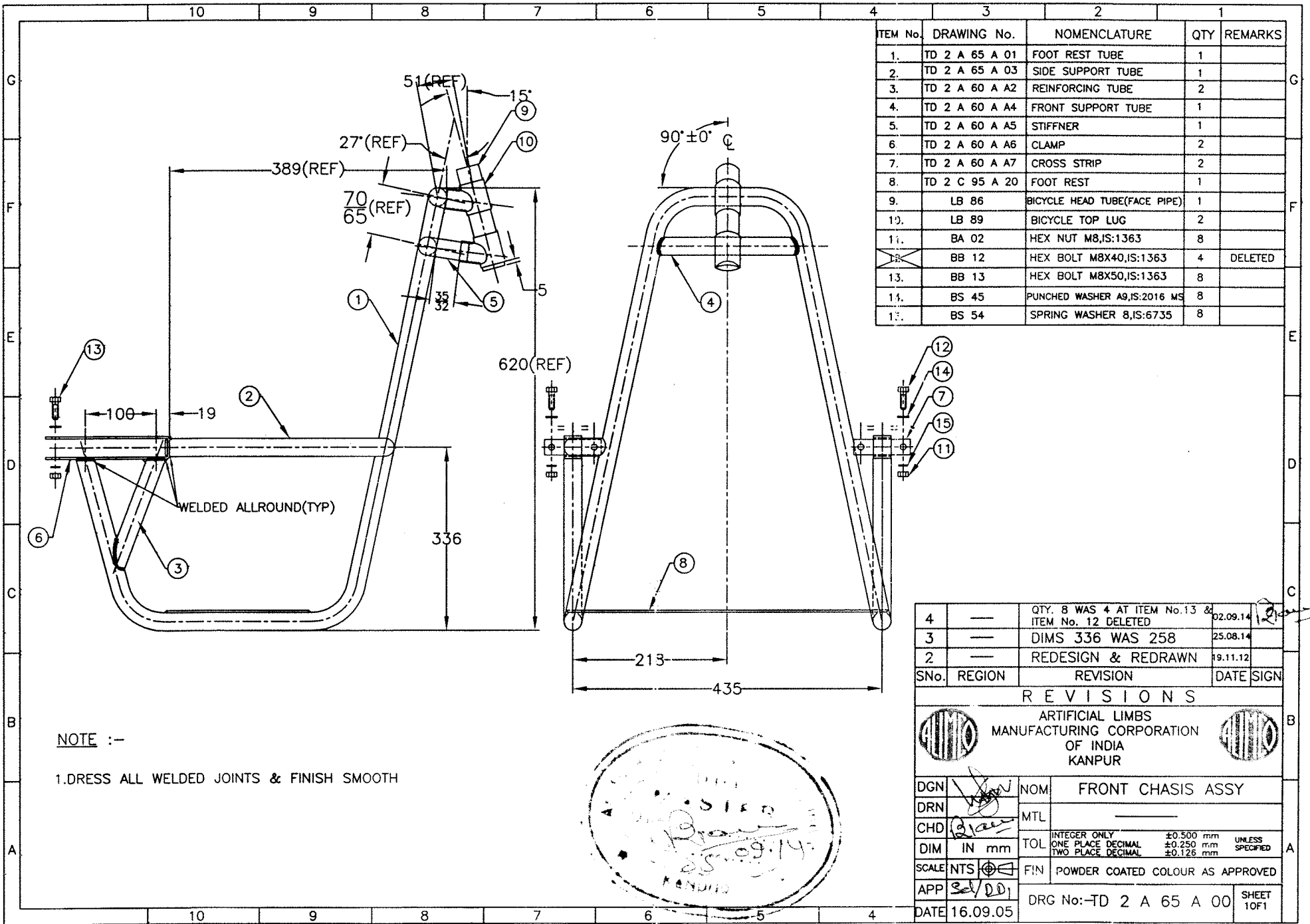
TD2A65000



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NOTE :-
1.REMOVE SHARP EDGES & CORNERS.

SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR				
DGN		NOM	PLATE GUARD RIGHT/LEFT	
DRN		MTL	SHEET MS CRA Gd. '0' IS:513 THICK 0.5mm(AA21)	
CHD		TOL	INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.125 mm <small>UNLESS SPECIFIED</small>	
DIM	IN mm	FIN	POWDER COATED COLOUR AS APPROVED	
SCALE	NTS			
APP				
DATE	02.09.2014		DRG No:- RIGHT- TD 2 A 65 0 05 LEFT - TD 2 A 65 0 06	SHEET 10F1



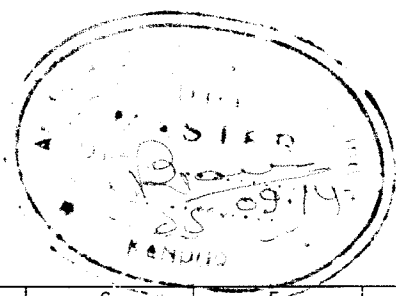
ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 A 65 A 01	FOOT REST TUBE	1	
2.	TD 2 A 65 A 03	SIDE SUPPORT TUBE	1	
3.	TD 2 A 60 A A2	REINFORCING TUBE	2	
4.	TD 2 A 60 A A4	FRONT SUPPORT TUBE	1	
5.	TD 2 A 60 A A5	STIFFNER	1	
6.	TD 2 A 60 A A6	CLAMP	2	
7.	TD 2 A 60 A A7	CROSS STRIP	2	
8.	TD 2 C 95 A 20	FOOT REST	1	
9.	LB 86	BICYCLE HEAD TUBE(FACE PIPE)	1	
10.	LB 89	BICYCLE TOP LUG	2	
11.	BA 02	HEX NUT M8,IS:1363	8	
12.	BB 12	HEX BOLT M8X40,IS:1363	4	DELETED
13.	BB 13	HEX BOLT M8X50,IS:1363	8	
14.	BS 45	PUNCHED WASHER A9,IS:2016 MS	8	
15.	BS 54	SPRING WASHER 8,IS:6735	8	

4	---	QTY. 8 WAS 4 AT ITEM No.13 & ITEM No. 12 DELETED	02.09.14
3	---	DIMS 336 WAS 258	25.08.14
2	---	REDESIGN & REDRAWN	19.11.12
SNo.	REGION	REVISION	DATE SIGN

REVISIONS

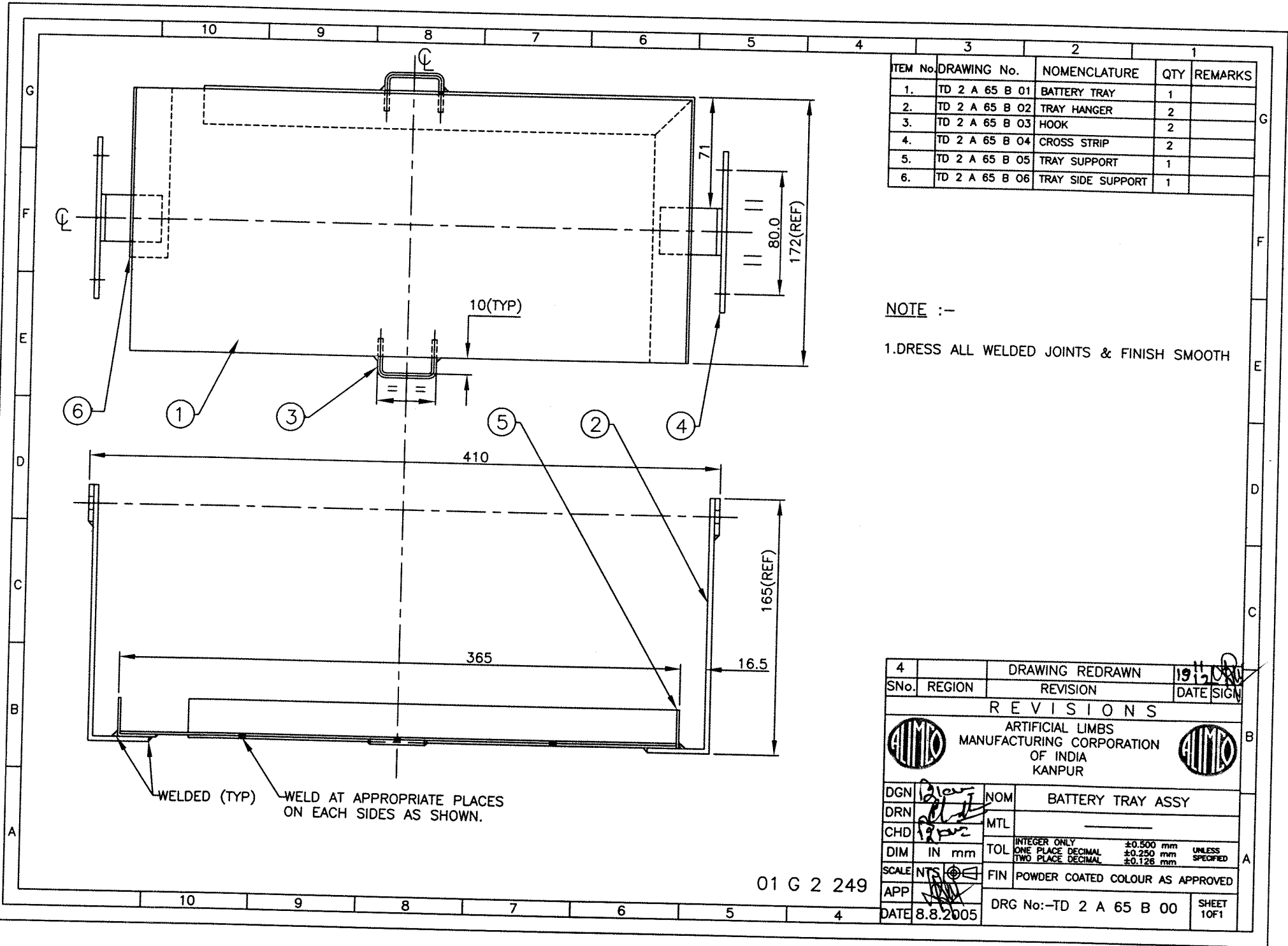
ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR

DGN	WJ	NOM	FRONT CHASIS ASSY
DRN	WJ	MTL	
CHD	WJ	TOL	INTEGER ONLY ±0.500 mm UNLESS SPECIFIED ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.125 mm
DIM	IN mm	FIN	POWDER COATED COLOUR AS APPROVED
SCALE	NTS	APP	DATE 16.09.05
DRG No.:-	TD 2 A 65 A 00	SHEET	10F1



NOTE :-

1.DRESS ALL WELDED JOINTS & FINISH SMOOTH



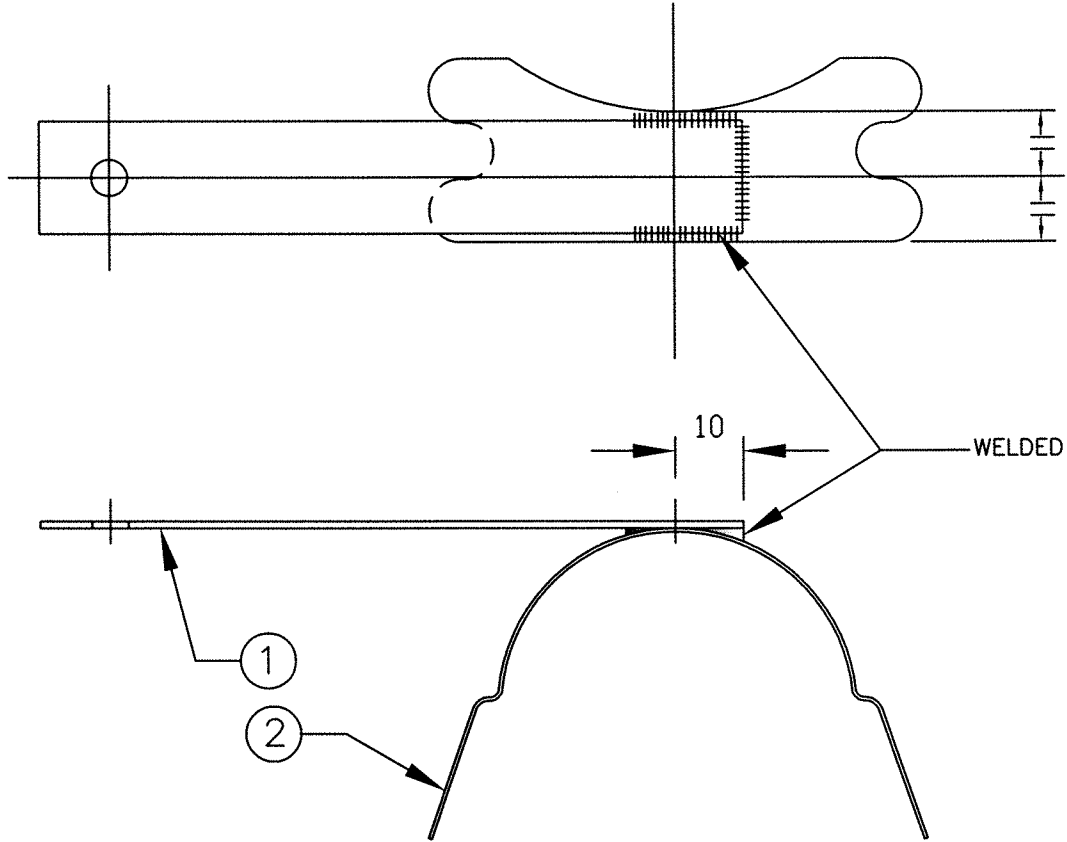
ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 A 65 B 01	BATTERY TRAY	1	
2.	TD 2 A 65 B 02	TRAY HANGER	2	
3.	TD 2 A 65 B 03	HOOK	2	
4.	TD 2 A 65 B 04	CROSS STRIP	2	
5.	TD 2 A 65 B 05	TRAY SUPPORT	1	
6.	TD 2 A 65 B 06	TRAY SIDE SUPPORT	1	

NOTE :-
 1.DRESS ALL WELDED JOINTS & FINISH SMOOTH

4		DRAWING REDRAWN	19/11/08
SNo.	REGION	REVISION	DATE SIGN
REVISIONS			
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR			
DGN	12/05	NOM	BATTERY TRAY ASSY
DRN	12/05	MTL	
CHD	12/05		
DIM	IN mm	TOL	INTEGER ONLY ±0.500 mm UNLESS SPECIFIED ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.128 mm
SCALE	NTS	FIN	POWDER COATED COLOUR AS APPROVED
APP			
DATE	8.8.2005	DRG No.:-TD 2 A 65 B 00	SHEET 10F1

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ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 A 65 H 01	CLAMP PLATE	1	
2.	LF 11	MUDGUARD CLAMP FOR HERO RANGER TYPE MNDGUARD FOR WHEEL SIZE 26"X2.125" (PROPRIETARY ITEM)	1	



NOTE :-

1. DRESS WELDED JOINT & FINISH SMOOTH

2	—	DRAWING REDRAWN	19/12	<i>[Signature]</i>
SNo.	REGION	REVISION	DATE	SIGN

REVISIONS



ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR

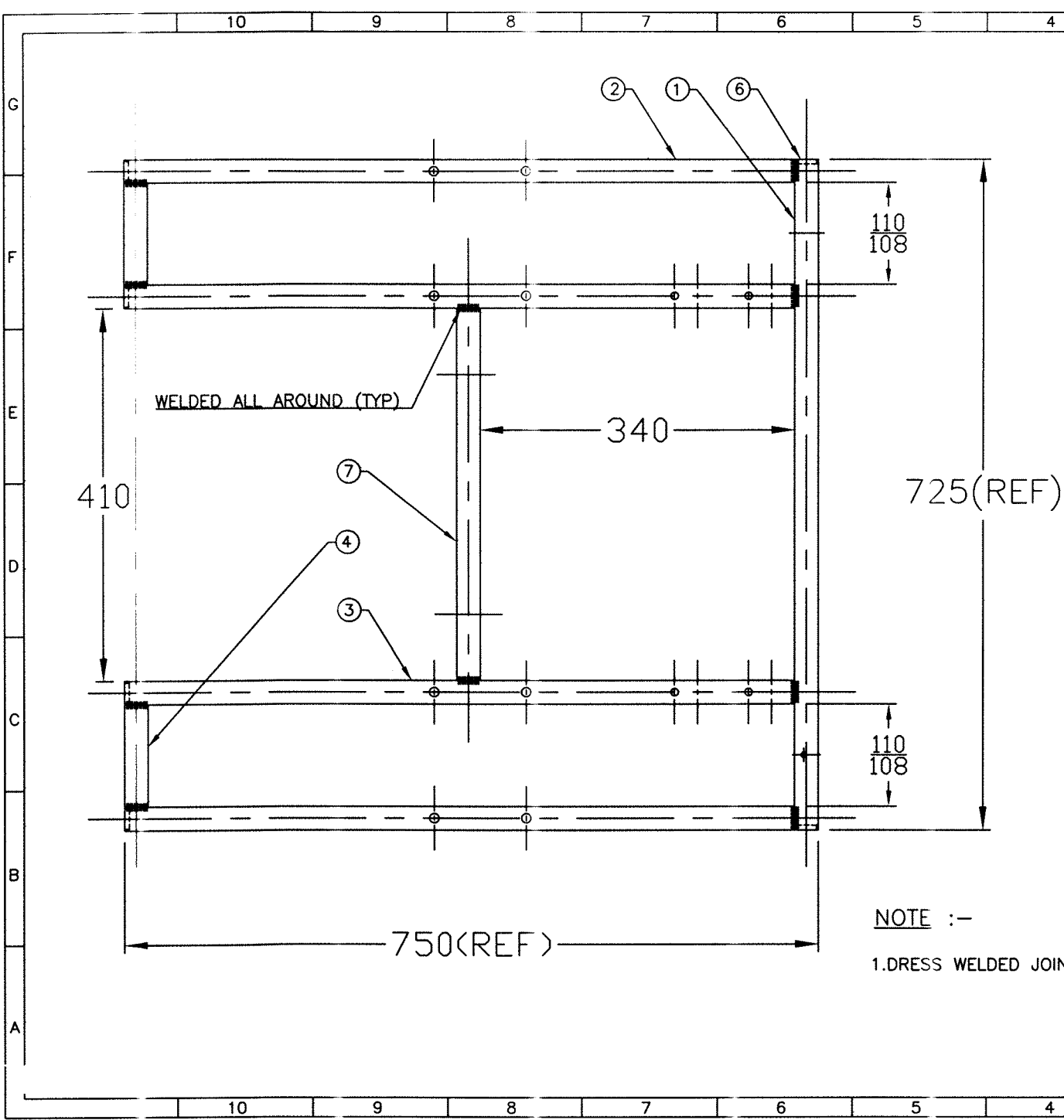


DGN	<i>[Signature]</i>	NOM	MUDGUARD CLAMP ASSY
DRN	<i>[Signature]</i>	MTL	—
CHD	<i>[Signature]</i>	TOL	INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.126 mm UNLESS SPECIFIED
DIM	IN mm	FIN	POWDER COATED COLOUR AS APPROVED
SCALE	NTS	APP	<i>[Signature]</i>
APP	<i>[Signature]</i>	DATE	08.08.05
DRG No:— TD 2 A 65 H 00			SHEET 10F1

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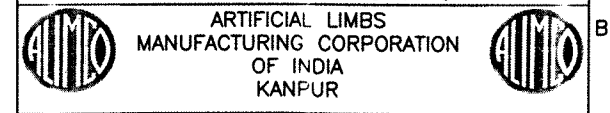


ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 A 65 N 01	MAIN TUBE	1	
2.	TD 2 A 65 N 02	SIDE TUBE OUTER	2	
3.	TD 2 A 65 N 03	SIDE TUBE INNER	2	
4.	TD 2 A 65 N 04	SIDE SPACER TUBE	2	
5.	TD 2 A 65 N 05	STRENGTHENING STRIP	4	DELETED
6.	TD 2 A 50 L 06	PLATE BOTTOM	6	
7.	TD 2 A 65 N 06	REAR TUBE	1	

NOTE :-
1.DRESS WELDED JOINT

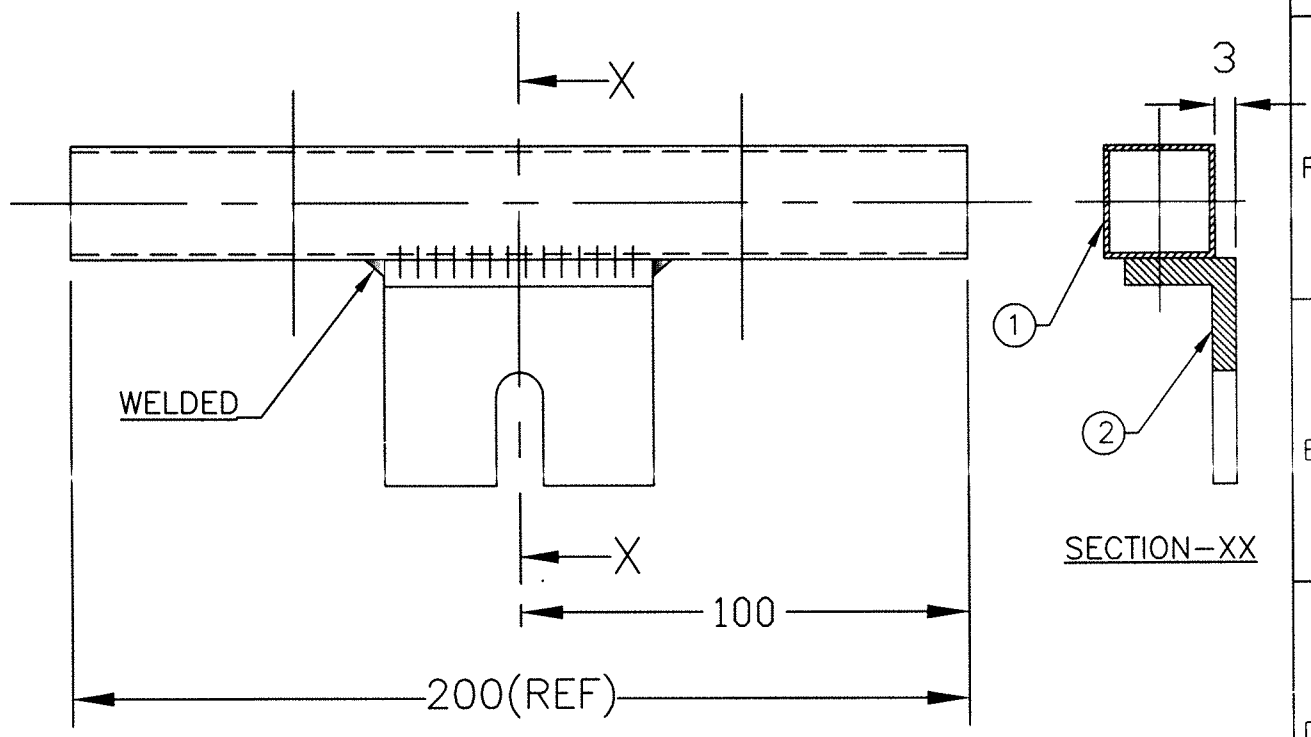
4	D-5	DIM 725 (REF) WAS 732(REF)	30.10.14	
3	G-4	TD 2A 65 N 06 WAS TD 2A 55 A 03 AT ITEM No. 7 & ITEM No. 5 DELETED	25.08.14	
2		REDESIGN & REDRAWN	19.11.12	
SNo.	REGION	REVISION	DATE	SIGN

REVISIONS



DGN		NOM	REAR CHASIS ASSY	
DRN		MTL	---	
CHD		TOL	INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm UNLESS SPECIFIED TWO PLACE DECIMAL ±0.125 mm	
DIM	IN mm	FIN	POWDER COATED COLOUR AS APPROVED	
SCALE	NTS	APP		
DATE	4.4.2006	DRG No.:-	TD 2 A 65 N 00	SHEET 10F

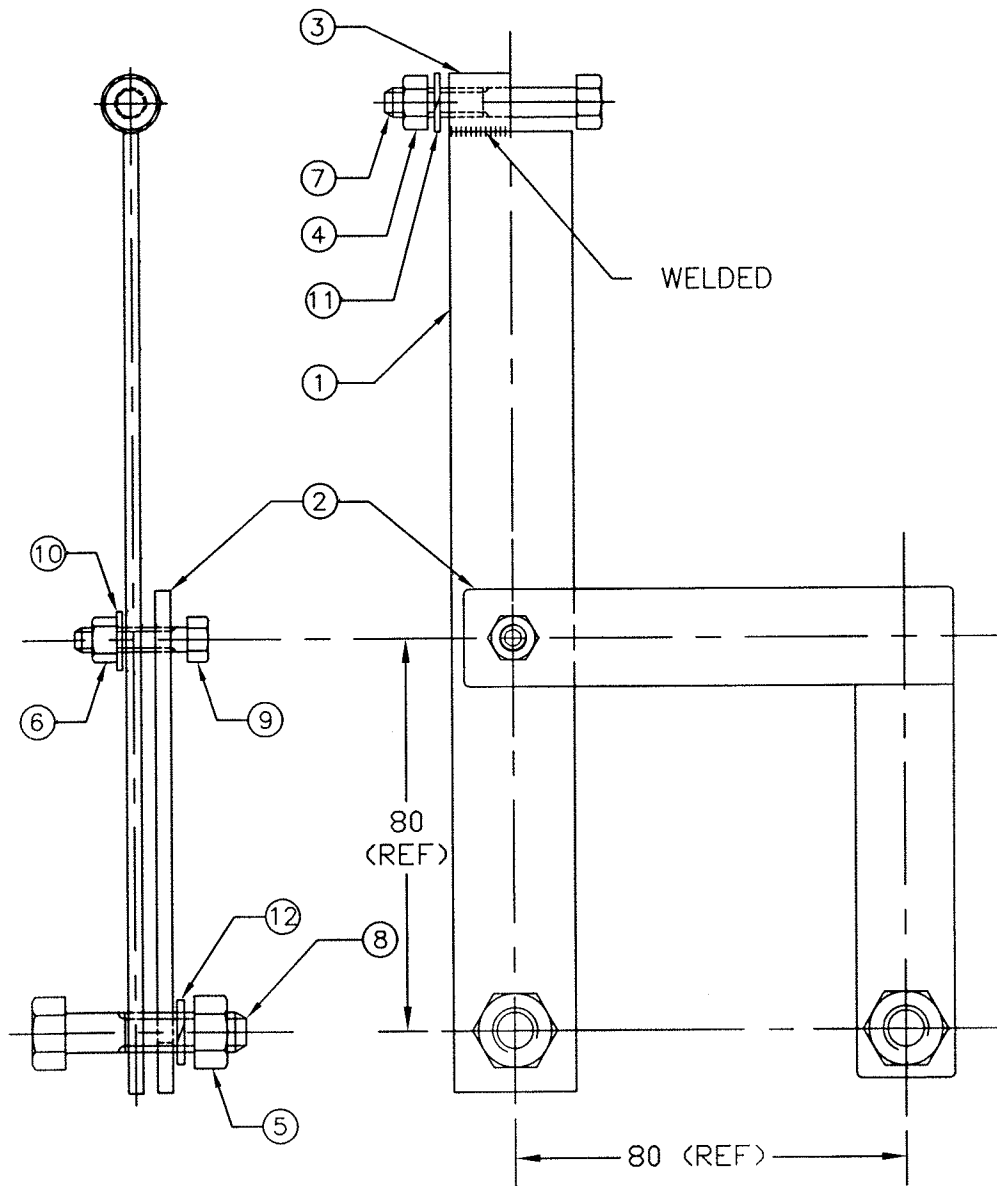
ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 A 65 P 01	BRACKET TUBE	1	
2.	TD 2 A 65 P 02	BRACKET	1	



NOTE :-

1.DRESS WELDED JOINT

1	E-1	ITEM No.2 SHIFT TO 3mm	30.10.14	<i>[Signature]</i>
SNo.	REGION	REVISION	DATE	SIGN
R E V I S I O N S				
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR				
DGN	<i>[Signature]</i>	NOM	BRACKET TUBE ASSY	
DRN	<i>[Signature]</i>	MTL	---	
CHD	<i>[Signature]</i>	TOL	INTEGER ONLY ±0.500 mm UNLESS SPECIFIED ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.126 mm	
DIM	IN mm	FIN	POWDER COATED COLOUR AS APPROVED	
SCALE	NTS			
APP	<i>[Signature]</i>			
DATE	19.11.12		DRG No:- TD 2 A 65 P 00	SHEET 10F1

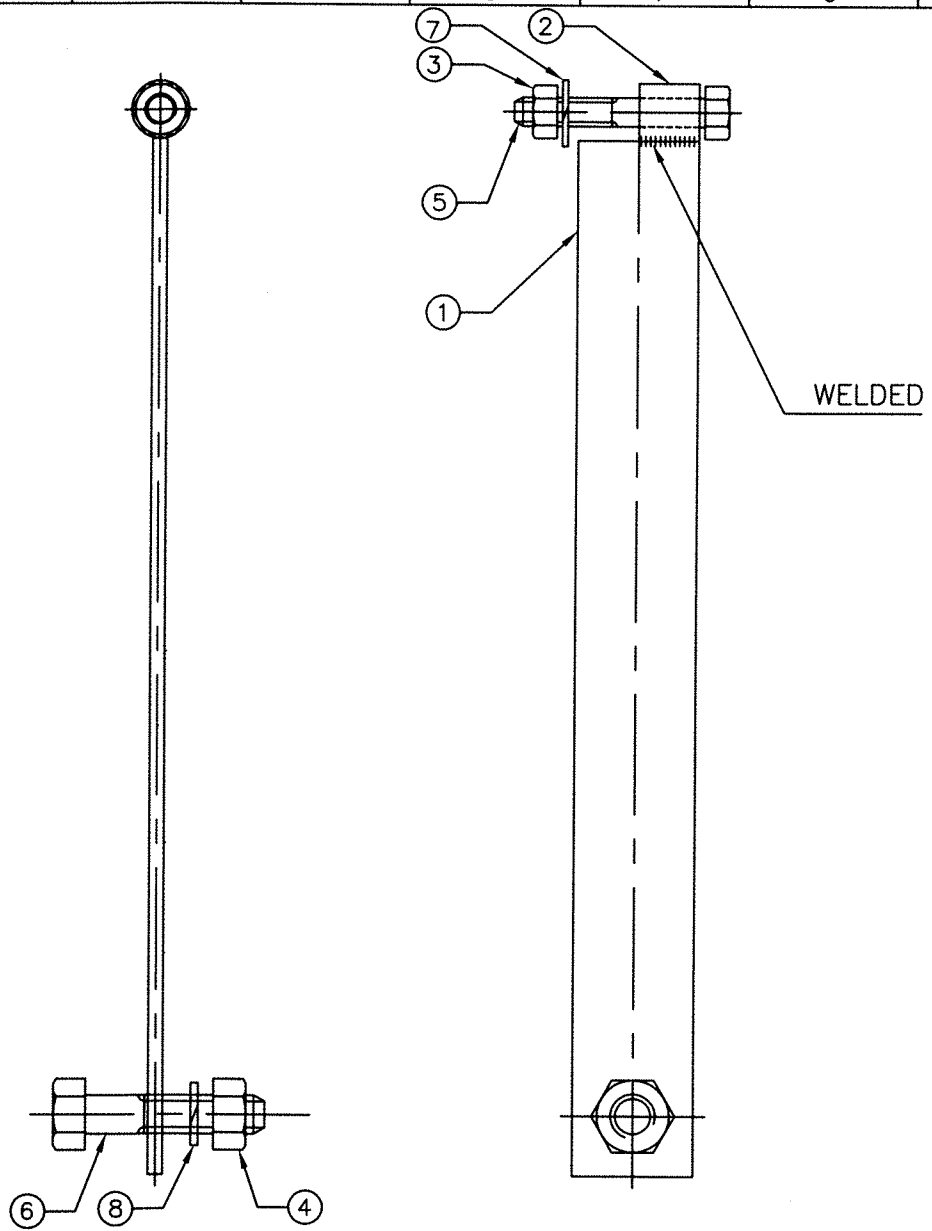




NOTE:-
1.DRESS WELDED JOINT

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 A 65 Q 01	SIDE STRUT	1	
2.	TD 2 A 65 Q 02	LINK	1	
3.	TD 2 A 55 B 03	BUSH	1	
4.	BA 01	HEX NUT M6,IS:1363	1	
5.	BA 02	HEX NUT M8,IS:1363	2	
6.	BA 61	HEX NUT M5,IS:2389,BRASS	1	
7.	BB 06	HEX BOLT M6X35,IS:1363	1	
8.	BB 11	HEX BOLT M8X35,IS:1363	2	
9.	BM 07	HEX SCREW M5X12,IS:1364-P-4.6	1	
10.	BS 47	PUNCHED WASHER A5.5mm,IS:2016,MS	1	
11.	BS 53	SPRING WASHER 6,IS:6735	1	
12.	BS 54	SPRING WASHER 8,IS:6735	2	

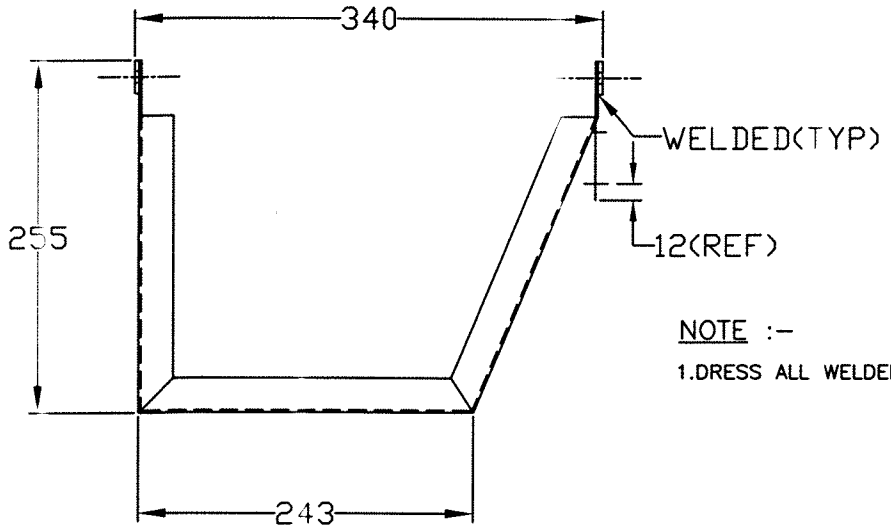
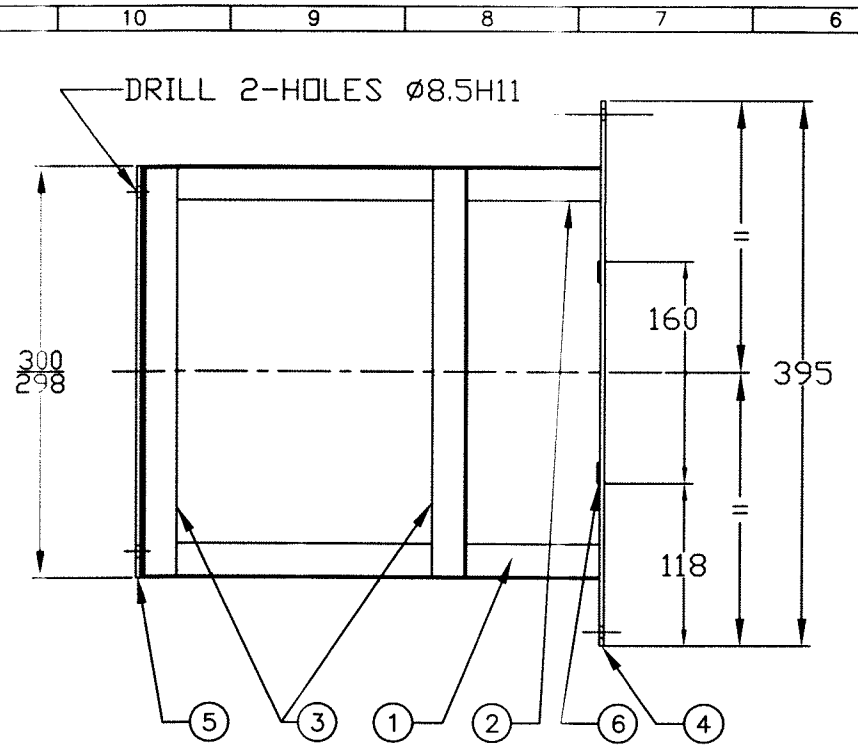
2	---	QTY.2 WASIAT ITME No.5,8&12	02.09.14	
1	---	REDESIGN & REDRAWN	25.08.14	
SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR				
DGN	WAV	NOM	SIDE STRUT ASSY	
DRN		MTL		
CHD	Ram	TOL	INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.128 mm UNLESS SPECIFIED	
DIM	IN mm	FIN	POWDER COATED COLOUR AS APPROVED	
SCALE	NTS	APP	DRG No:-TD 2 A 65 Q 00	
DATE	19.11.12		SHEET 10F1	

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 A 65 R 01	BACK STRUT	1	
2.	TD 2 A 55 B 03	BUSH	1	
3.	BA 01	HEX NUT M6,IS:1363	1	
4.	BA 02	HEX NUT M8,IS:1363	1	
5.	BB 06	HEX BOLT M6X35,IS:1363	1	
6.	BB 11	HEX BOLT M8X35,IS:1363	1	
7.	BS 53	SPRING WASHER 6,IS:6735	1	
8.	BS 54	SPRING WASHER 8,IS:6735	1	



SNNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
 ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR 				
DGN	210-	NOM	BACK STRUT ASSY	
DRN		MTL		
CHD	210-	TOL	INTEGER ONLY ±0.500 mm UNLESS SPECIFIED ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.126 mm	
DIM	IN mm	FIN	POWDER COATED COLOUR AS APPROVED	
SCALE	NTS	APP		
DATE	19.11.12	DRG No.:-	TD 2 A 65 R 00	SHEET 10F1

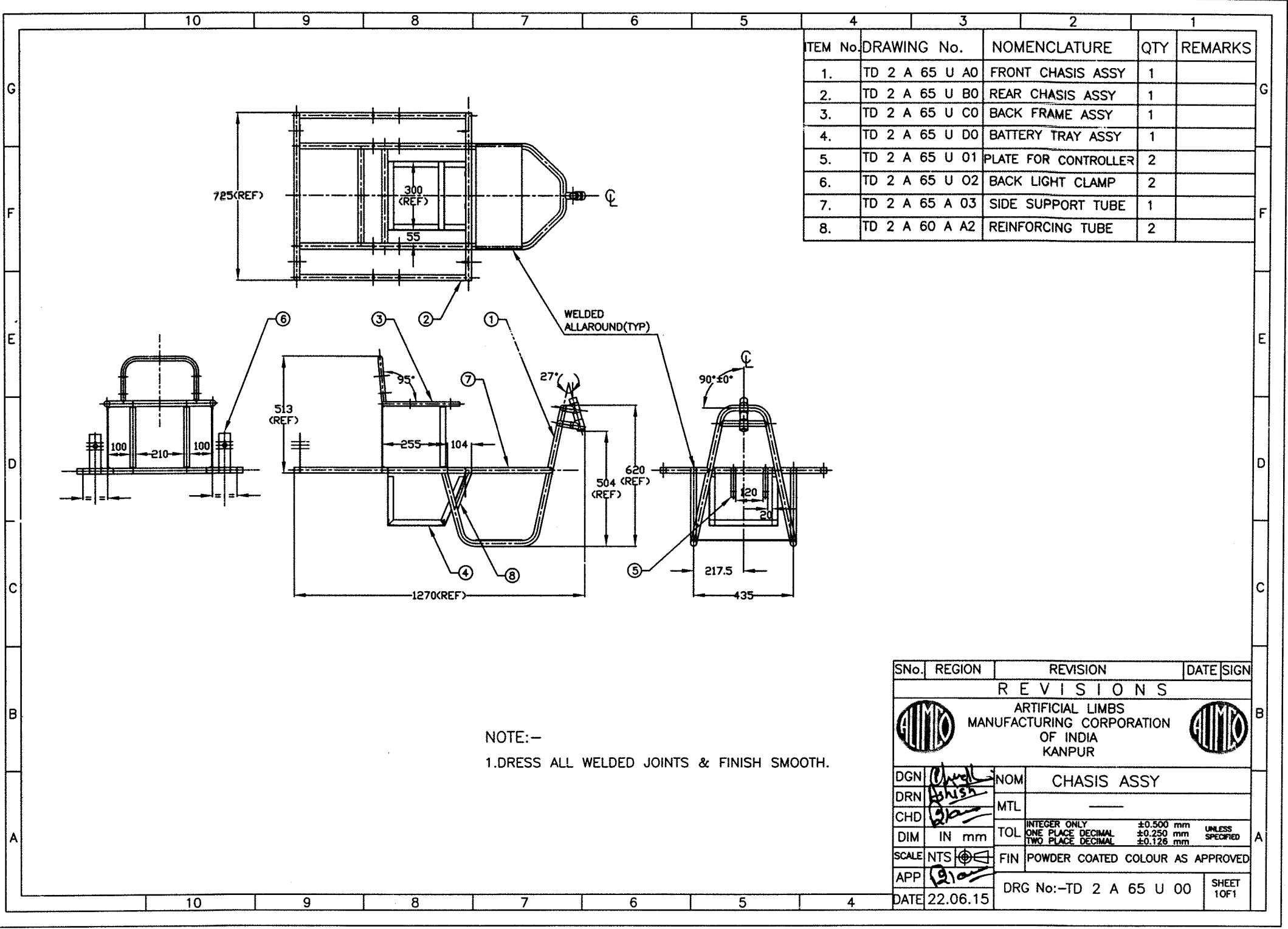
01 G 2 316



NOTE :-
1.DRESS ALL WELDED JOINTS & FINISH SMOOTH.

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 A 65 T 01	TRAY HANGER (RIGHT)	1	
2.	TD 2 A 65 T 02	TRAY HANGER (LEFT)	1	
3.	TD 2 A 65 T 03	TRAY FRAME PIECE	2	
4.	TD 2 A 65 T 04	HANGER STIFFNER(FRONT)	1	
5.	TD 2 A 65 T 05	HANGER STIFFNER(REAR)	1	
6.	TD 2 A 65 0 03	CONTROLLER HOLDER PLATE	2	

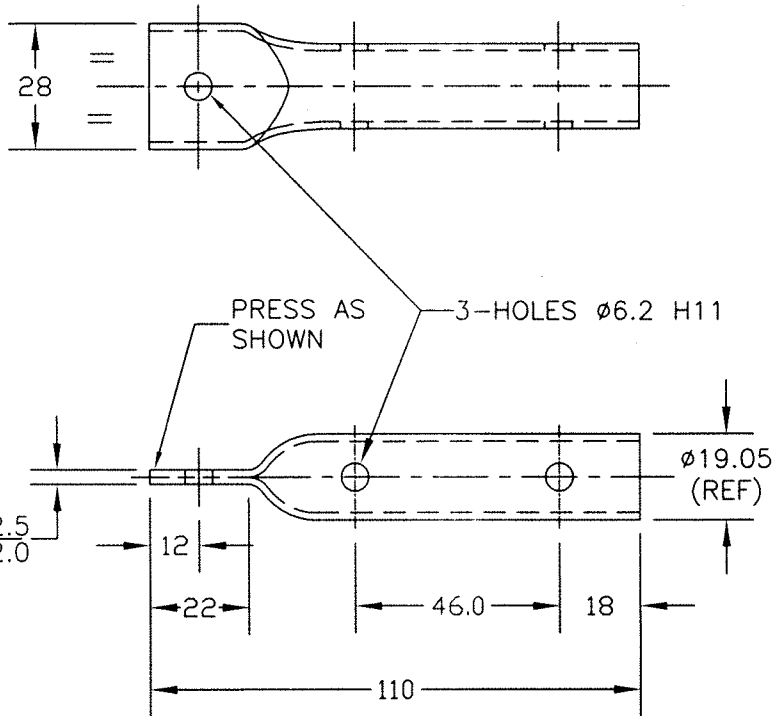
1.	G-4	QTY 2 WAS 1 AT ITEM No.3	30.10.14	
SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR				
DGN		NOM	BATTERY TRAY ASSY	
DRN		MTL		
CHD		TOL	INTEGER ONLY ±0.500 mm UNLESS SPECIFIED ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.125 mm	
DIM	IN mm	FIN	POWDER COATED COLOUR AS APPROVED	
SCALE	NTS	APP		
DATE	02.09.2014	DRG No.:-TD 2 A 65 T 00	SHEET 10F1	



ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 A 65 U A0	FRONT CHASIS ASSY	1	
2.	TD 2 A 65 U B0	REAR CHASIS ASSY	1	
3.	TD 2 A 65 U C0	BACK FRAME ASSY	1	
4.	TD 2 A 65 U D0	BATTERY TRAY ASSY	1	
5.	TD 2 A 65 U 01	PLATE FOR CONTROLLER	2	
6.	TD 2 A 65 U 02	BACK LIGHT CLAMP	2	
7.	TD 2 A 65 A 03	SIDE SUPPORT TUBE	1	
8.	TD 2 A 60 A A2	REINFORCING TUBE	2	



NOTE:--
1.DRESS ALL WELDED JOINTS & FINISH SMOOTH.

SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
		ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR		
DGN	<i>Chand</i>	NOM	CHASIS ASSY	
DRN	<i>Ashish</i>	MTL	---	
CHD	<i>Chand</i>	TOL	INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.126 mm <small>UNLESS SPECIFIED</small>	
DIM	IN mm	FIN	POWDER COATED COLOUR AS APPROVED	
SCALE	NTS	APP	<i>Chand</i>	
DATE	22.06.15	DRG No.:	TD 2 A 65 U 00	SHEET 10F1

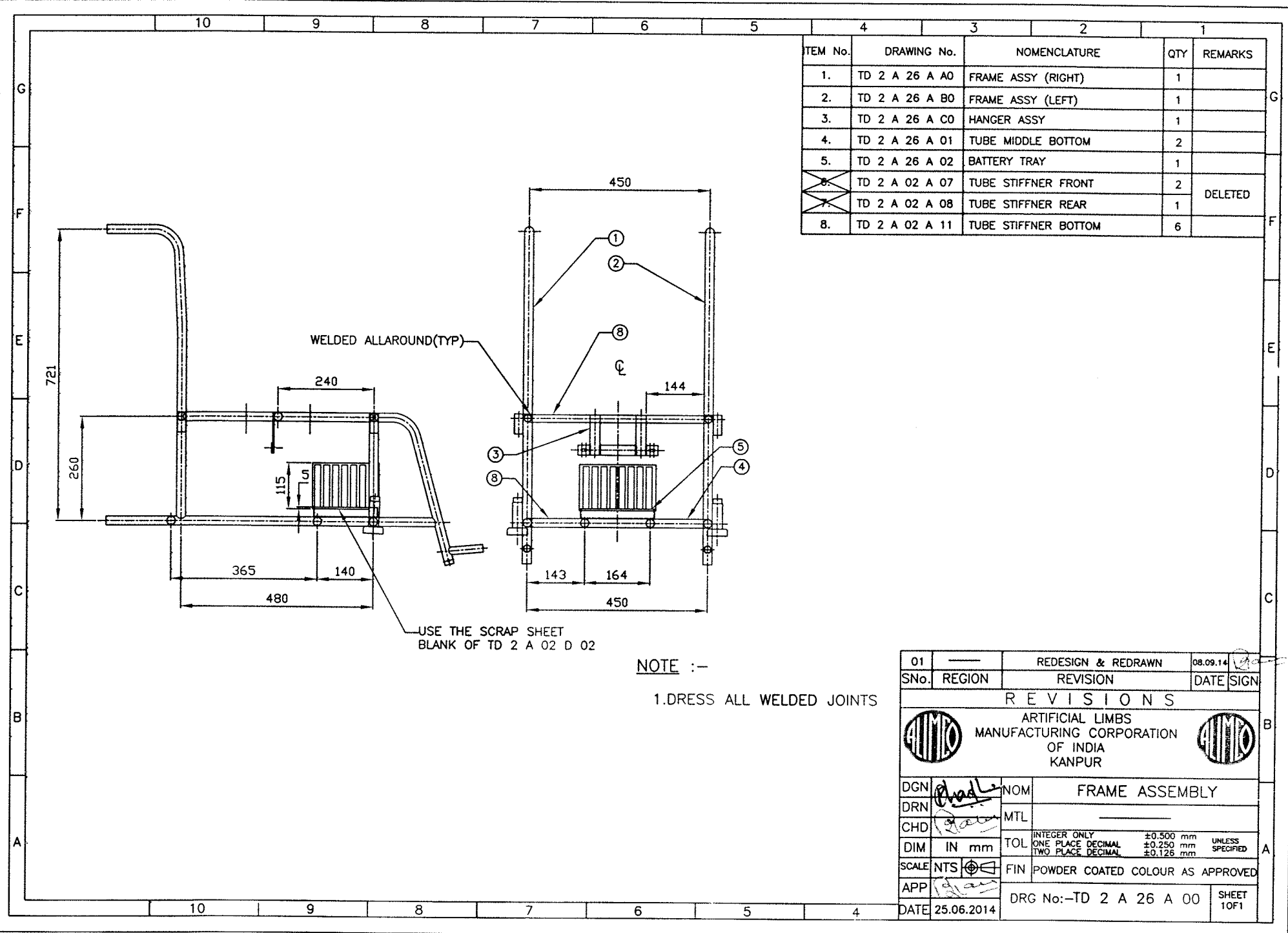


NOTE:-

1. REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
 ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR 				
DGN	<i>Ashish</i>	NOM	BRAKE HOLDER TUBE	
DRN	<i>Ria</i>	MTL	STEEL TUBE ERW-C1 OD 19.05mm THICK 1.0mm IS:2039 ANNEALED(AF14)	
CHD	<i>Ria</i>	TOL	INTEGER ONLY ±0.500 mm UNLESS SPECIFIED ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.126 mm	
DIM	IN mm	FIN	POWDER COATED COLOUR AS APPROVED	
SCALE	NTS			
APP	<i>Ria</i>			
DATE	13.11.15		DRG No:- TD 2 A 65 V 01	SHEET 1 OF 1

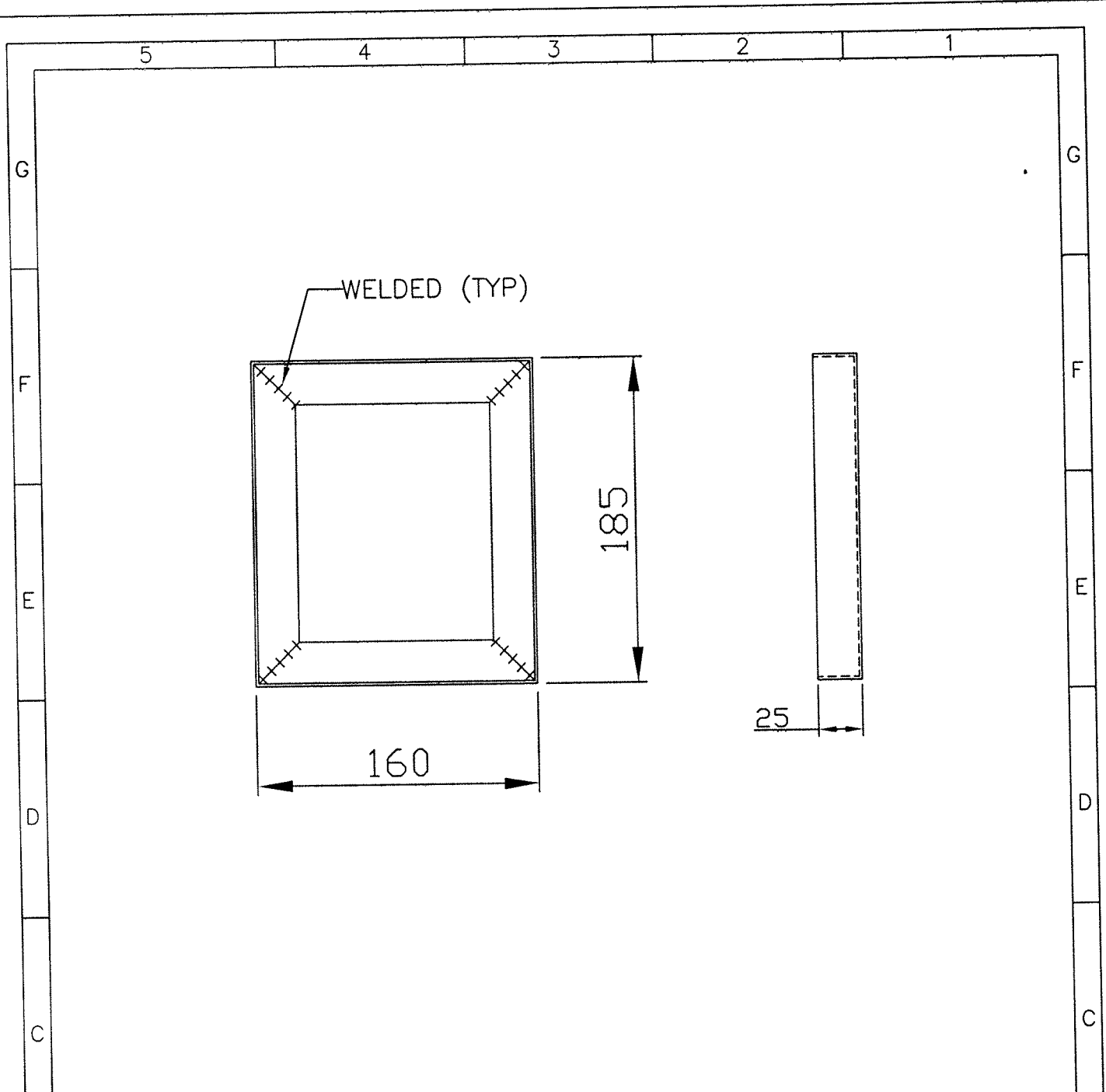
TD2A26000



ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 A 26 A A0	FRAME ASSY (RIGHT)	1	
2.	TD 2 A 26 A B0	FRAME ASSY (LEFT)	1	
3.	TD 2 A 26 A C0	HANGER ASSY	1	
4.	TD 2 A 26 A 01	TUBE MIDDLE BOTTOM	2	
5.	TD 2 A 26 A 02	BATTERY TRAY	1	
6.	TD 2 A 02 A 07	TUBE STIFFNER FRONT	2	DELETED
7.	TD 2 A 02 A 08	TUBE STIFFNER REAR	1	
8.	TD 2 A 02 A 11	TUBE STIFFNER BOTTOM	6	



NOTE :-
1.DRESS ALL WELDED JOINTS

01	—	REDESIGN & REDRAWN	08.09.14
SNo.	REGION	REVISION	DATE SIGN
REVISIONS			
		ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR	
DGN	<i>Chad</i>	NOM	FRAME ASSEMBLY
DRN		MTL	
CHD			
DIM	IN mm	TOL	INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.125 mm UNLESS SPECIFIED
SCALE	NTS	FIN	POWDER COATED COLOUR AS APPROVED
APP			
DATE	25.06.2014	DRG No.:-TD 2 A 26 A 00	SHEET 10F1

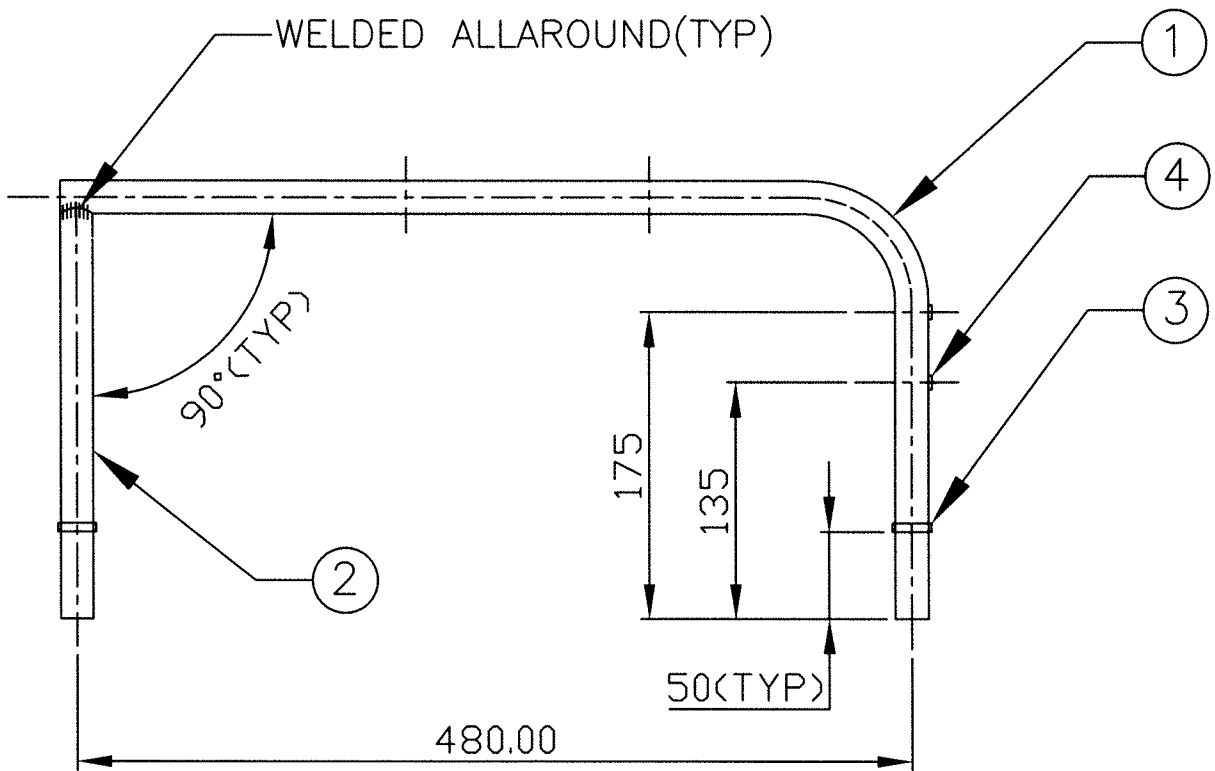


NOTE:-

1.REMOVE SHARP EDGES & CORNERS.

1	—	DIMS.160 & 185 WERE 235 & 210 RESP.	08.09.2014	<i>[Signature]</i>	
SNo.	REGION	REVISION	DATE	SIGN	
REVISIONS					
		ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR			
DGN	<i>[Signature]</i>	NOM	BATTERY TRAY		
DRN	<i>[Signature]</i>	MTL	MS ANGLE 25X25X1.6mm,IS:226 (AD 39)		
CHD	<i>[Signature]</i>	TOL	INTEGER ONLY	±0.500 mm	
DIM	IN mm		ONE PLACE DECIMAL	±0.250 mm	
			TWO PLACE DECIMAL	±0.126 mm	
SCALE	NTS	FIN	UNLESS SPECIFIED		
APP	<i>[Signature]</i>	DRG No:-TD 2 A 26 A 02		SHEET 10F1	
DATE	24.06.2014				

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARK
1	TD 2 A 26 B A1	ARM REST TUBE	1	
2	TD 2 A 26 B A2	VERTICAL TUBE ARM REST	1	
3	TD 2 A 26 B A3	RING ARM REST	2	
4	TD 2 A 06 A 05	NUT	2	



NOTE:-

1.DRESS ALL WELDED JOINTS.

SNo.	REGION	REVISION	DATE	SIGN
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REVISIONS



ARTIFICIAL LIMBS
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OF INDIA
KANPUR



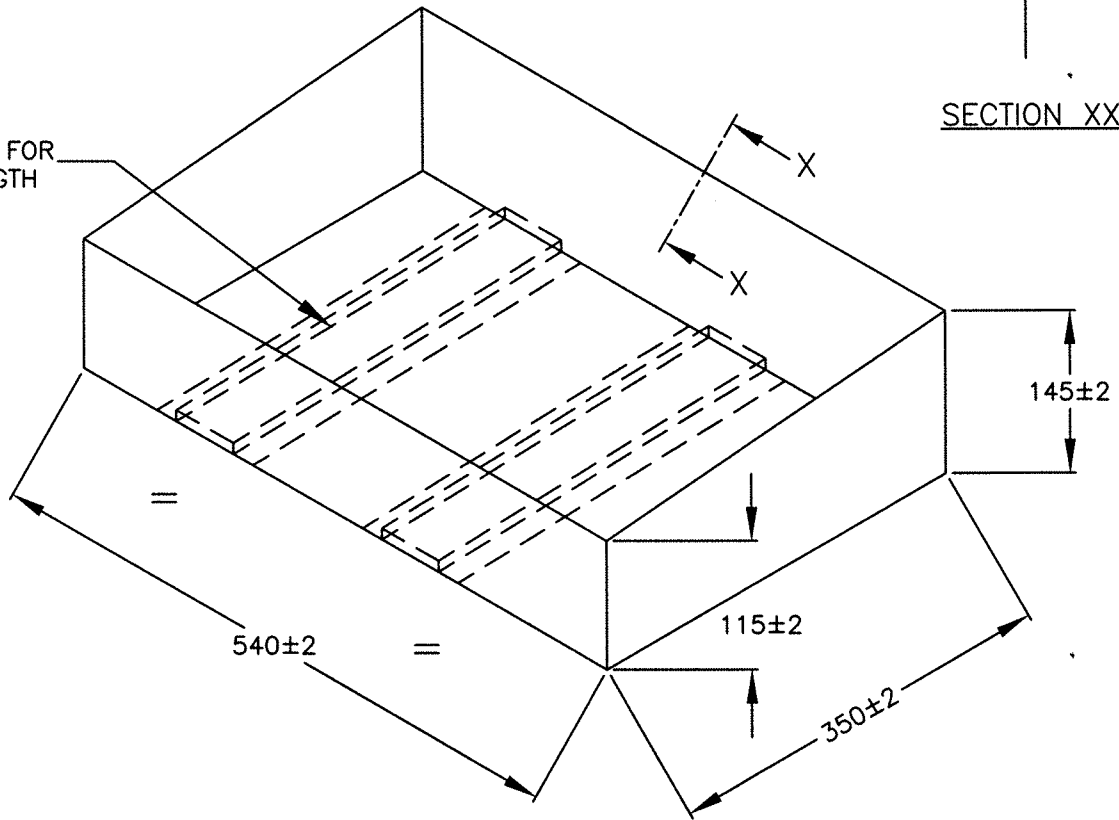
DGN	<i>Chudh.</i>	NOM	ARM REST ASSY(RIGHT)	
DRN	<i>Chudh.</i>	MTL		
CHD	<i>Chudh.</i>	TOL	INTEGER ONLY	±0.500 mm
DIM	IN mm		ONE PLACE DECIMAL	±0.250 mm
SCALE	NTS	FIN	TWO PLACE DECIMAL	±0.126 mm
APP	<i>Chudh.</i>		UNLESS SPECIFIED	
DATE	26.06.2014		POWDER COATED COLOUR AS APPROVED	
			DRG No:-TD 2 A 26 B A0	
			SHEET 10F1	

TD2C48000

2-RIB FOR STRENGTH



FOLD THROUGH OUT

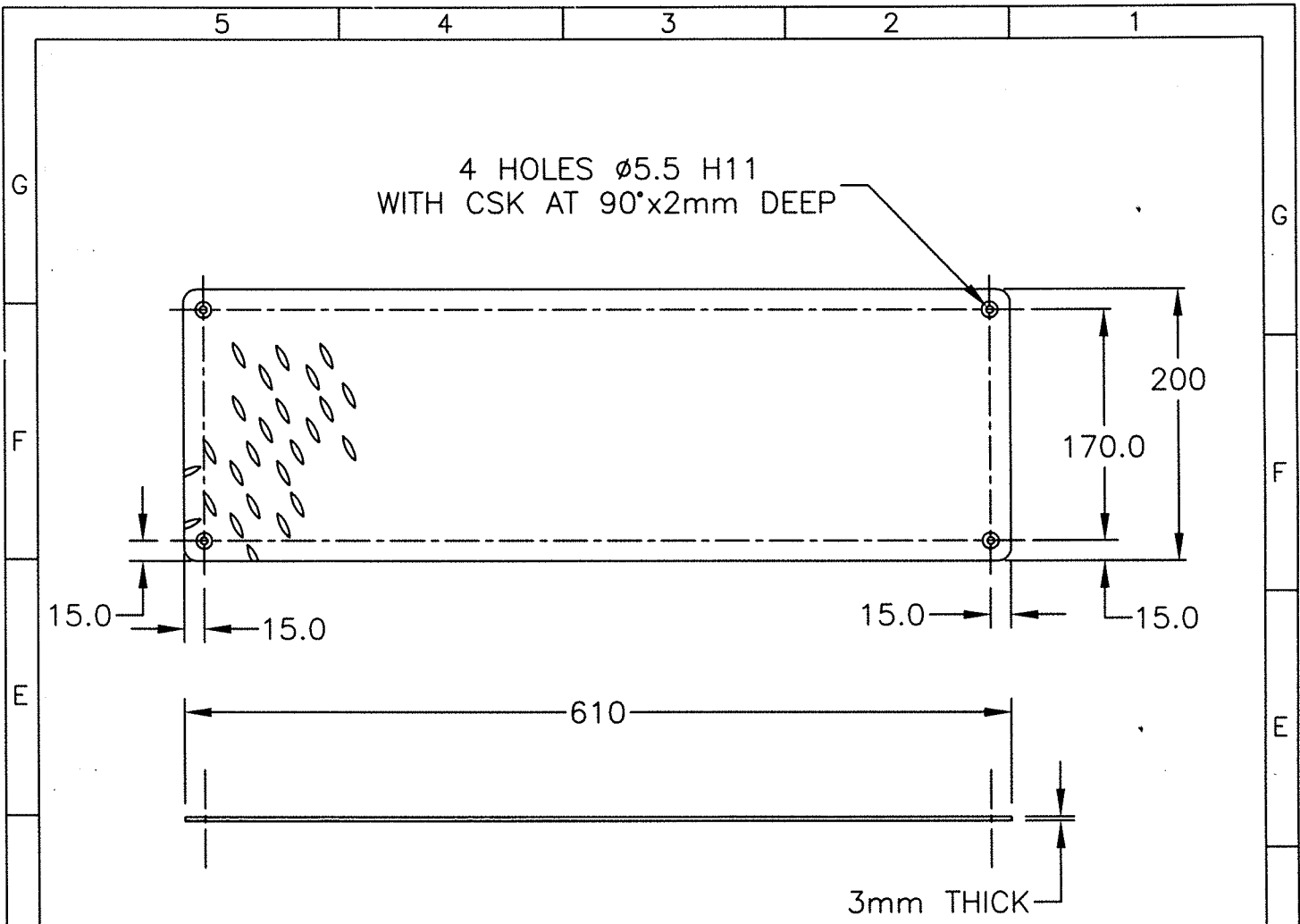
SECTION XX



NOTE:-

- 1. REMOVE SHARP EDGES & CORNERS.
- 2. ALL DIMENSIONS ARE FOR REFERENCE ONLY.

SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
		ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR		
				
DGN	<i>Arish</i>	NOM	TRAY	
DRN	<i>Arish</i>	MTL	SHEET G.I. 0.56mm THICK (SWG24) IS:226 (A A 75)	
CHD	<i>Arish</i>	TOL	INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.126 mm UNLESS SPECIFIED	
DIM	INmm	FIN	POWDER COATED COLOUR AS APPROVED	
SCALE	NTS			
APP	<i>Arish</i>			
DATE	28.04.2015	DRG No:-TD 2 C 48 0 01		SHEET 1 OF 1





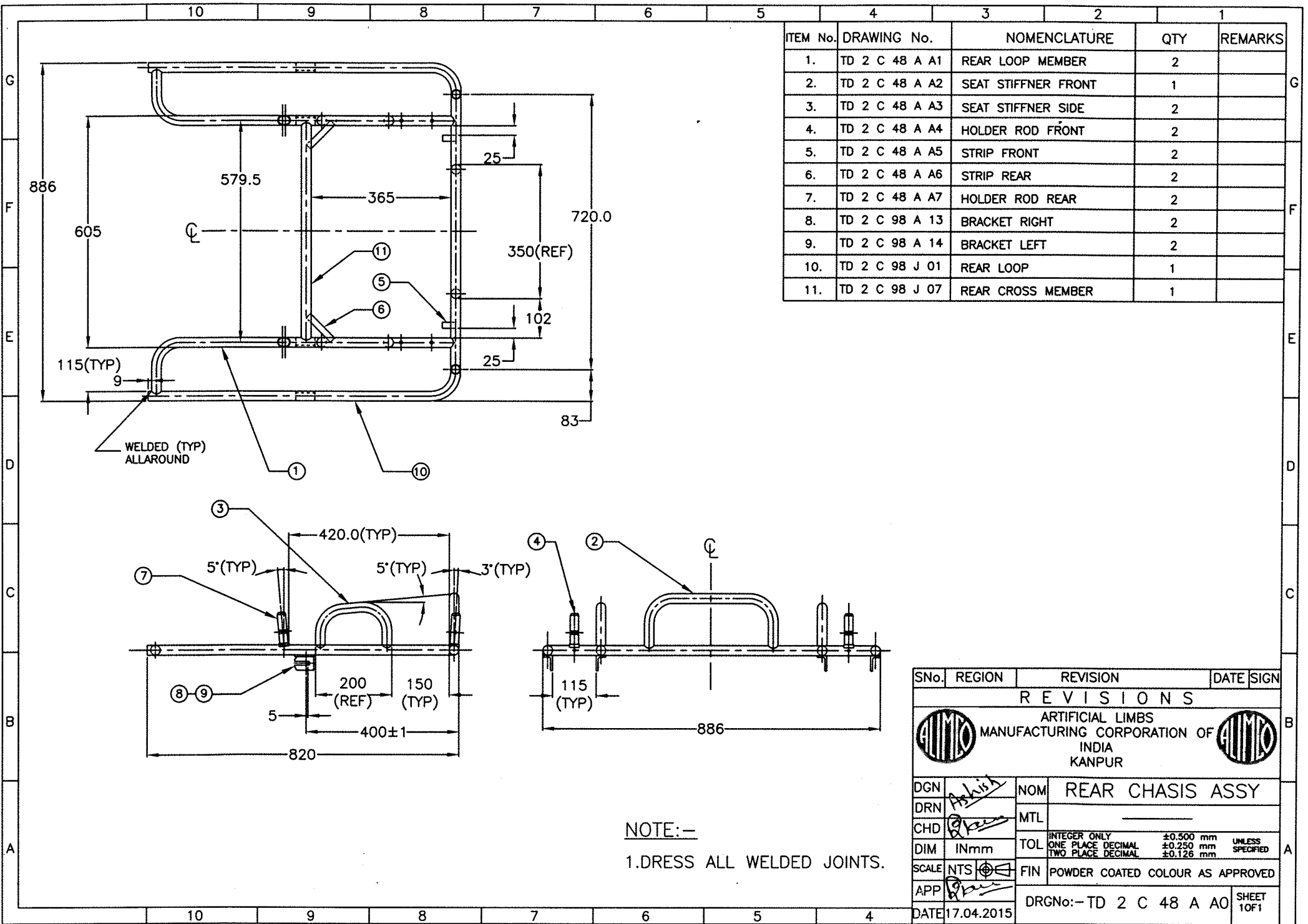
MTL:- AD 75

STEEL CHEQUERED PLATE THICKNESS 3mm
(EXCLUDING RAISED PORTION)(IS:3502)

NOTE:-

1.REMOVE SHARP EDGES & CORNERS.

SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
		ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR		
				
DGN	<i>Ashish</i>	NOM	FOOT REST	
DRN	<i>Ashish</i>	MTL	INDICATED	
CHD	<i>Ashish</i>	TOL	INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.126 mm	UNLESS SPECIFIED
DIM	INmm	FIN	POWDER COATED COLOUR AS, APPROVED	
SCALE	NTS			
APP	<i>Ashish</i>			
DATE	23.04.2015	DRG No:- TD 2 C 48 A 01		SHEET 1 OF 1

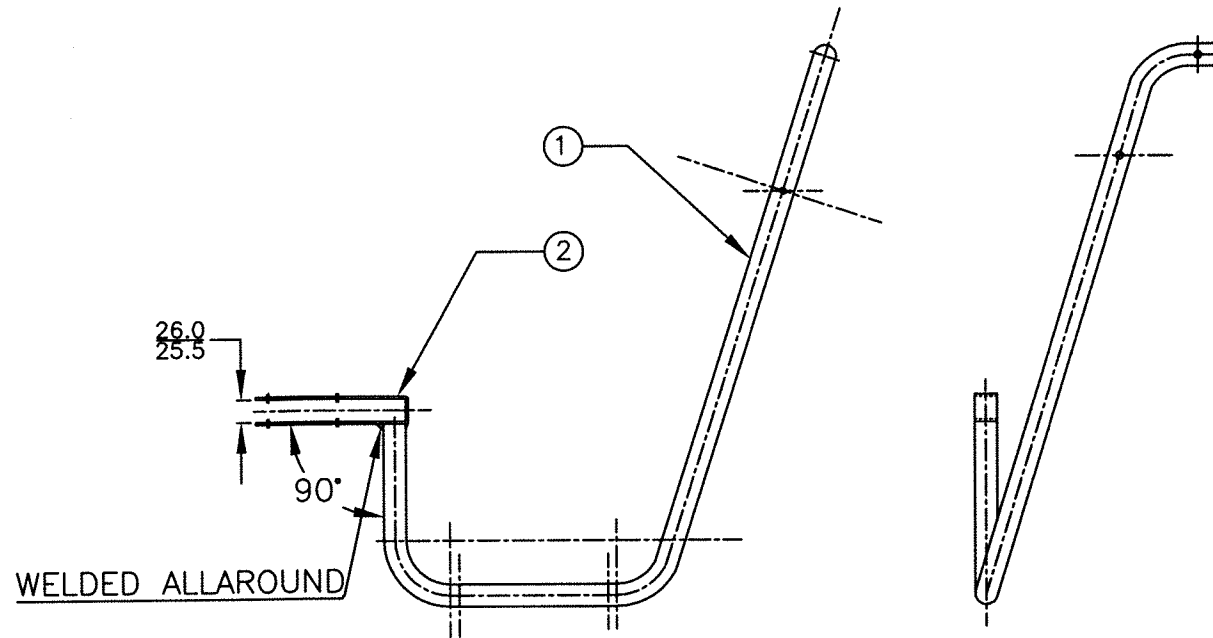


ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 C 48 A A1	REAR LOOP MEMBER	2	
2.	TD 2 C 48 A A2	SEAT STIFFNER FRONT	1	
3.	TD 2 C 48 A A3	SEAT STIFFNER SIDE	2	
4.	TD 2 C 48 A A4	HOLDER ROD FRONT	2	
5.	TD 2 C 48 A A5	STRIP FRONT	2	
6.	TD 2 C 48 A A6	STRIP REAR	2	
7.	TD 2 C 48 A A7	HOLDER ROD REAR	2	
8.	TD 2 C 98 A 13	BRACKET RIGHT	2	
9.	TD 2 C 98 A 14	BRACKET LEFT	2	
10.	TD 2 C 98 J 01	REAR LOOP	1	
11.	TD 2 C 98 J 07	REAR CROSS MEMBER	1	

SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR				
DGN	<i>Arshid</i>	NOM	REAR CHASIS ASSY	
DRN	<i>Arshid</i>	MTL		
CHD	<i>Arshid</i>	TOL	INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.125 mm <small>UNLESS SPECIFIED</small>	
DIM	IN/mm	FIN	POWDER COATED COLOUR AS APPROVED	
SCALE	NTS	APP		
DATE	17.04.2015	DRGNo:-	TD 2 C 48 A A0	SHEET 10F1

NOTE:-
1.DRESS ALL WELDED JOINTS.

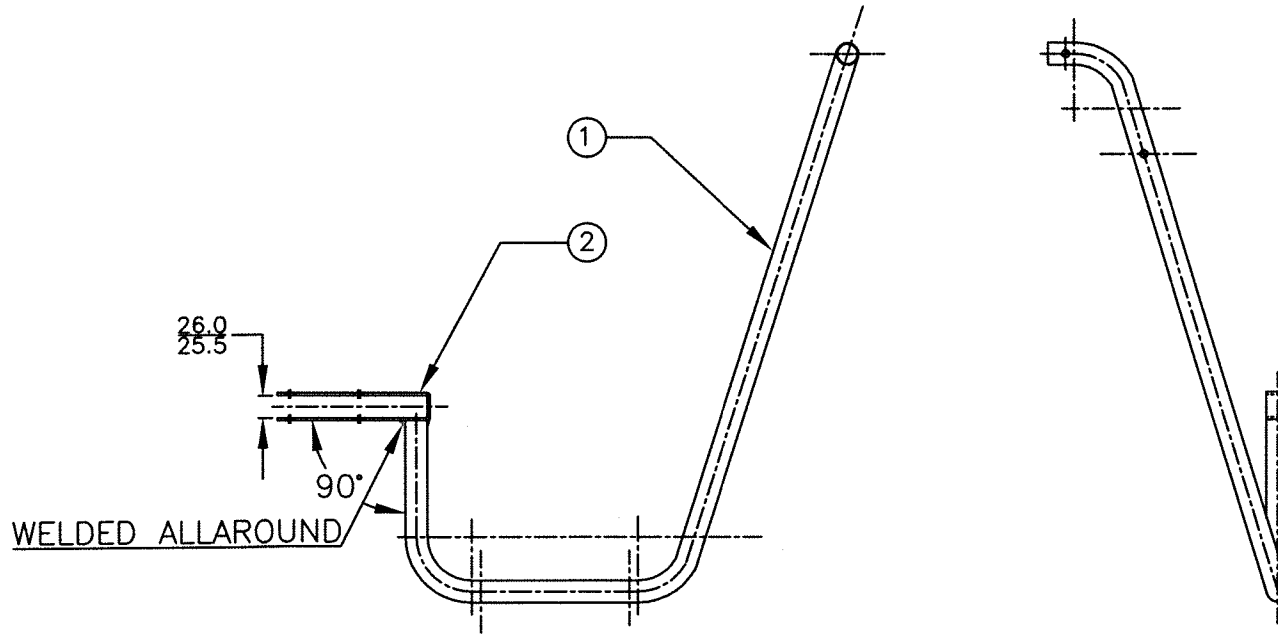
ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 C 48 A B1	FOOT REST TUBE (RIGHT)	1	
2.	TD 2 A 60 A A6	CLAMP	1	



NOTE:-
1.DRESS WELDED JOINT.

SN.No.	REGION	REVISION	DATE	SIGN
REVISIONS				
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR				
DGN	<i>Adish</i>	NOM	FOOT REST TUBE ASSY.(RIGHT)	
DRN		MTL		
CHD	<i>Draw</i>	TOL	INTEGER ONLY ±0.500 mm UNLESS SPECIFIED ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.126 mm	
DIM	INmm	FIN	POWDER COATED COLOUR AS APPROVED	
SCALE	NTS	APP		
DATE	20.04.2015	DRGNo:-	TD 2 C 48 A B0	SHEET 10F1

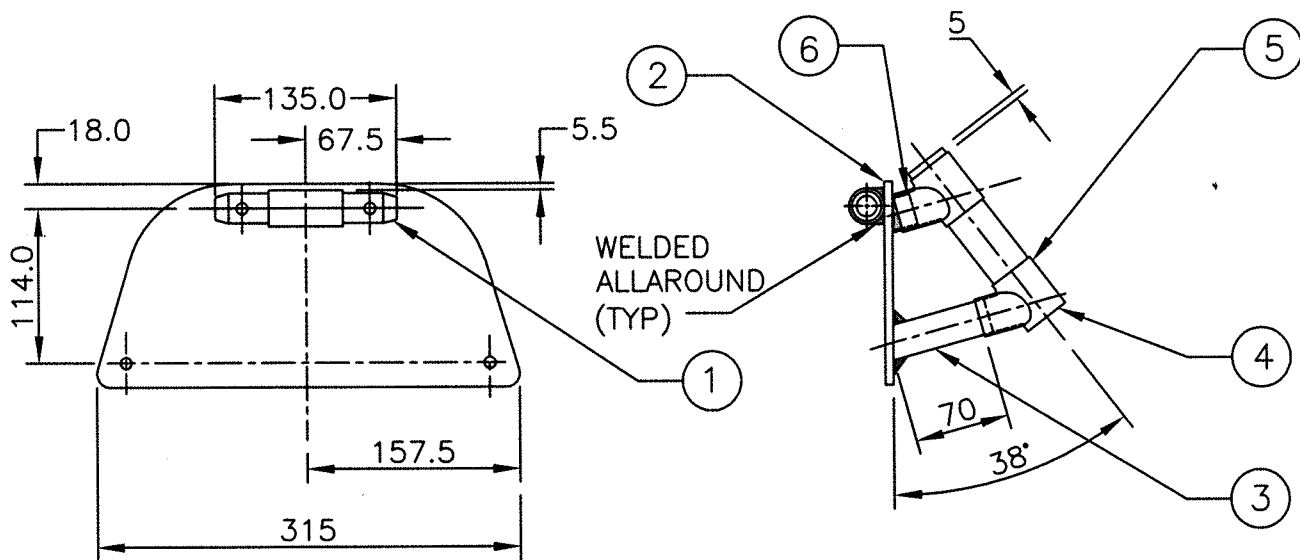
ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 C 48 A C1	FOOT REST TUBE (LEFT)	1	
2.	TD 2 A 60 A A6	CLAMP	1	



NOTE:—
1.DRESS WELDED JOINT.

SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR				
DGN	<i>Ashish</i>	NOM	FOOT REST TUBE ASSY.(LEFT)	
DRN	<i>Plan</i>	MTL	_____	
CHD	<i>Plan</i>	TOL	INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.126 mm	UNLESS SPECIFIED
DIM	INmm	FIN	POWDER COATED COLOUR AS APPROVED	
SCALE	NTS	APP		
DATE	20.04.2015	DRGNo:—	TD 2 C 48 A C0	SHEET 10F1

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 C 48 A D1	LINK ROD	1	
2.	TD 2 C 48 A D2	LINK PLATE	1*	
3.	TD 2 C 48 A D3	STIFFNER	1	
4.	LB 86	BICYCLE HEAD TUBE(FACE PIPE)	1	
5.	LB 89	BICYCLE TOP LUG	2	
6.	TD 2 C 48 A D4	INSERT TUBE	1	



NOTE:-

1.DRESS ALL WELDED JOINTS

SNo.	REGION	REVISION	DATE	SIGN
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REVISIONS

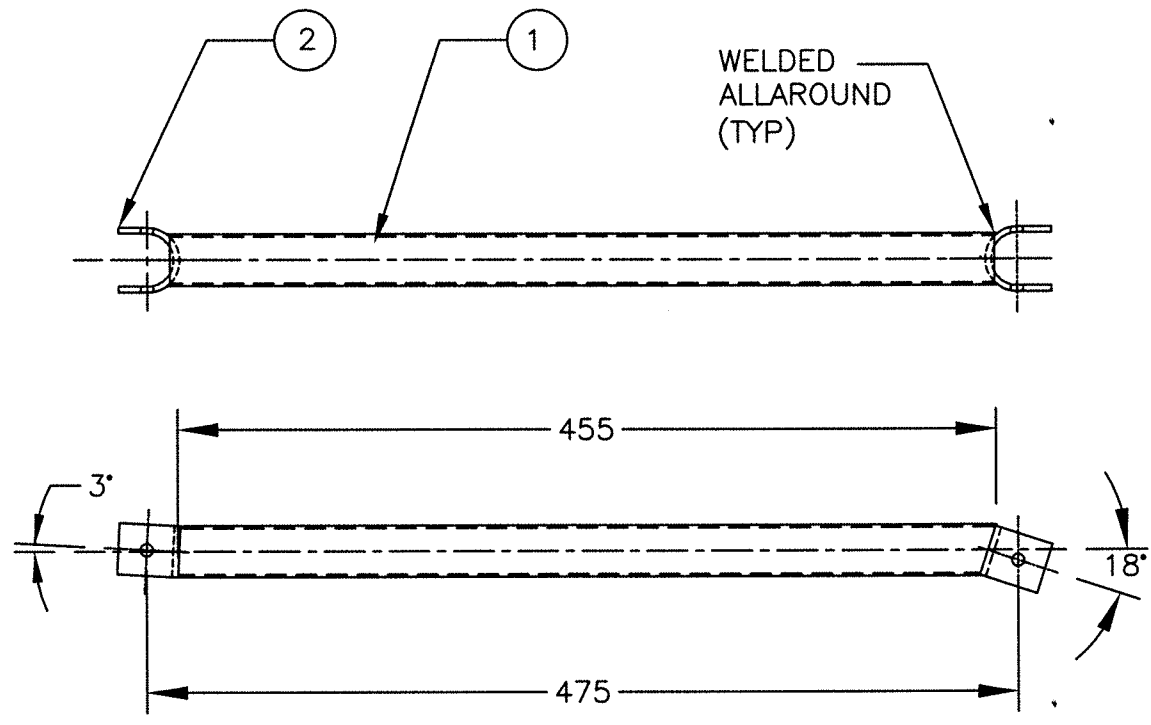


ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR



DGN	<i>Ashish</i>	NOM	FRONT FACE PIPE ASSY
DRN	<i>Raw</i>	MTL	_____
CHD	<i>Raw</i>	TOL	INTEGER ONLY ±0.500 mm* ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.126 mm UNLESS SPECIFIED
DIM	INmm	FIN	POWDER COATED COLOUR AS APPROVED
SCALE	NTS		
APP	<i>Raw</i>		
DATE	23.04.2015	DRG No:- TD 2 C 48 A D0	SHEET 1 OF 1

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 C 48 A E1	SIDE SUPPORT TUBE	1	
2.	TD 2 C 48 A E2	CLAMP	2	



WELDED
ALLAROUND
(TYP)

NOTE:-

1.DRESS ALL WELDED JOINTS.

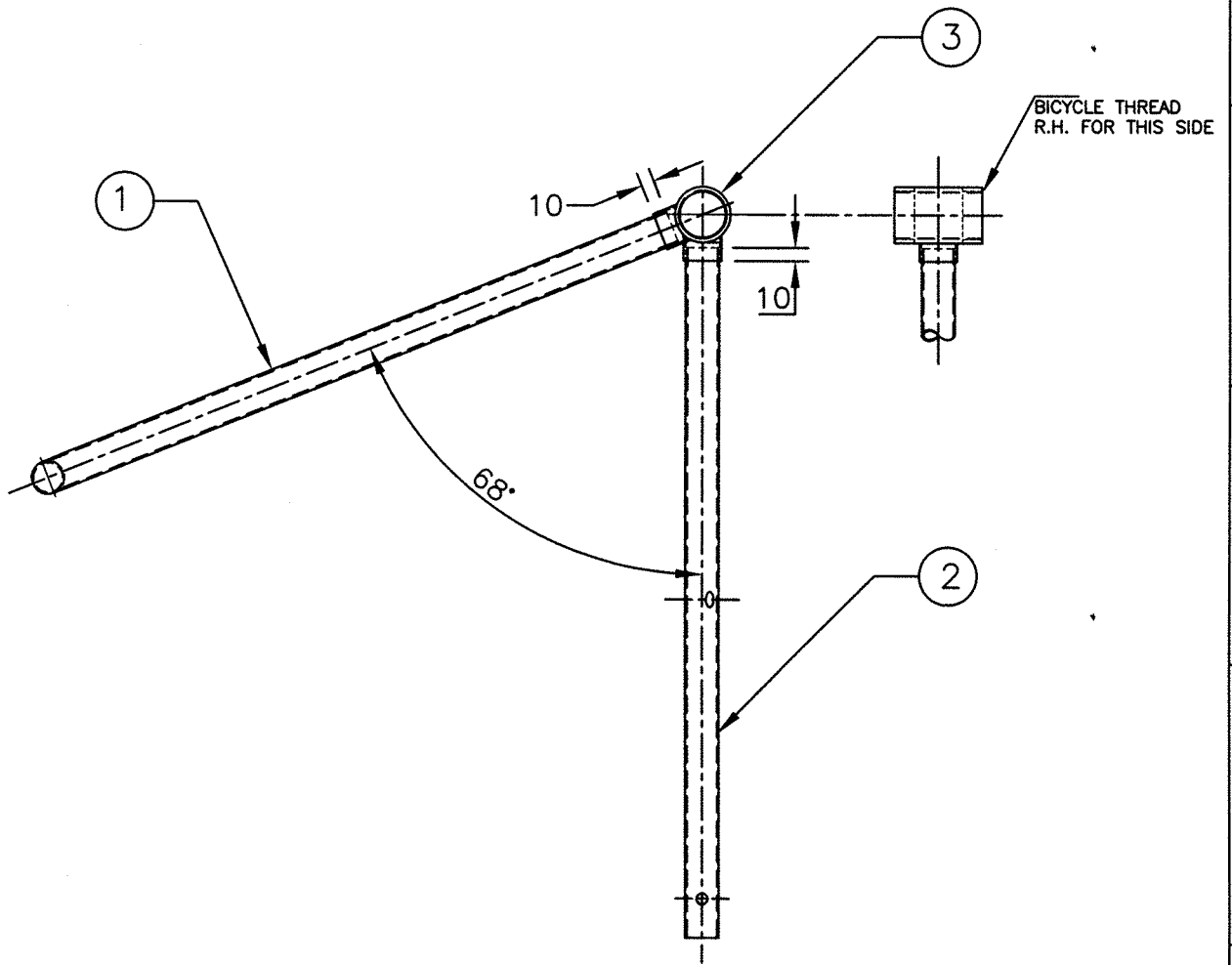
SNo.	REGION	REVISION	DATE	SIGN
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REVISIONS

ARTIFICIAL LIMBS
 MANUFACTURING CORPORATION
 OF INDIA
 KANPUR

DGN	<i>Ashish</i>	NOM	SIDE SUPPORT TUBE ASSY.	
DRN	<i>Raw</i>	MTL	_____	
CHD	<i>Raw</i>	TOL	INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.126 mm	UNLESS SPECIFIED
DIM	INmm	FIN	POWDER COATED COLOUR AS APPROVED	
SCALE	NTS	APP	DRG No:- TD 2 C 48 A E0	
DATE	23.04.2015		SHEET 1 OF 1	

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 C 48 A F1	SIDE SUPPORT TUBE (RIGHT)	1	
2.	TD 2 C 48 A F2	VERTICAL SUPPORT (RIGHT)	1	
3.	LB 99	BICYCLE BOTTOM BRACKET	1	



NOTE:-

1.DRESS ALL WELDED JOINTS

SNo.	REGION	REVISION	DATE	SIGN
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REVISIONS

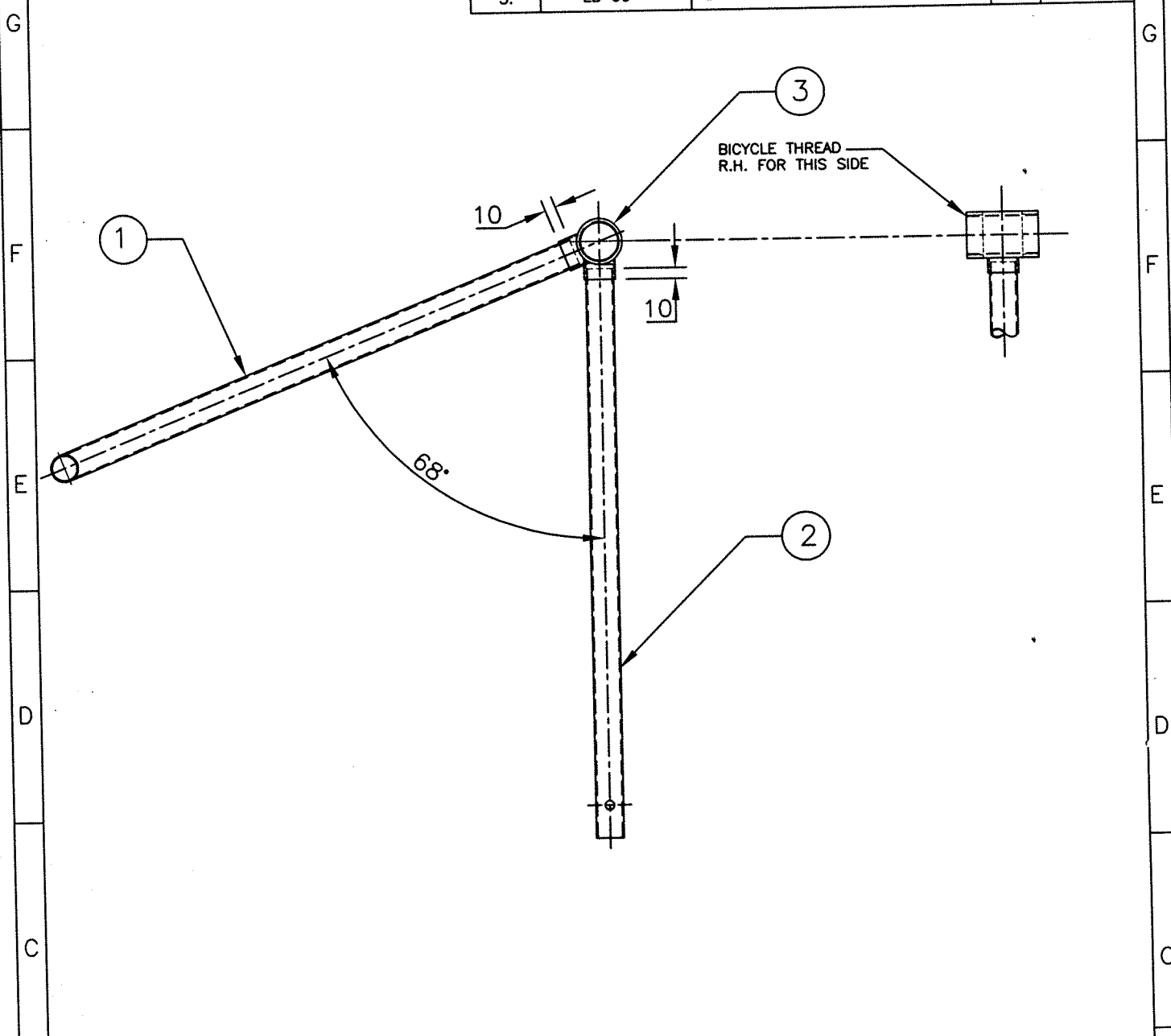


ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR





DGN	<i>Ashish</i>	NOM	BOTTOM BRACKET ASSY (RIGHT)	
DRN		MTL		
CHD	<i>Raw</i>	TOL	INTEGER ONLY	±0.500 mm
DIM	INmm		ONE PLACE DECIMAL	±0.250 mm
SCALE	NTS	FIN	TWO PLACE DECIMAL	±0.126 mm
APP	<i>Raw</i>	POWDER COATED COLOUR AS APPROVED		
DATE	23.04.2015	DRG No:- TD 2 C 48 A F0		SHEET 1 OF 1

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 C 48 A G1	SIDE SUPPORT TUBE (LEFT)	1	
2.	TD 2 C 48 A G2	VERTICAL SUPPORT (LEFT)	1	
3.	LB 99	BICYCLE BOTTOM BRACKET	1	

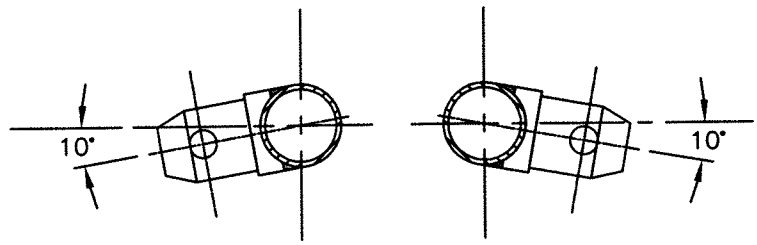
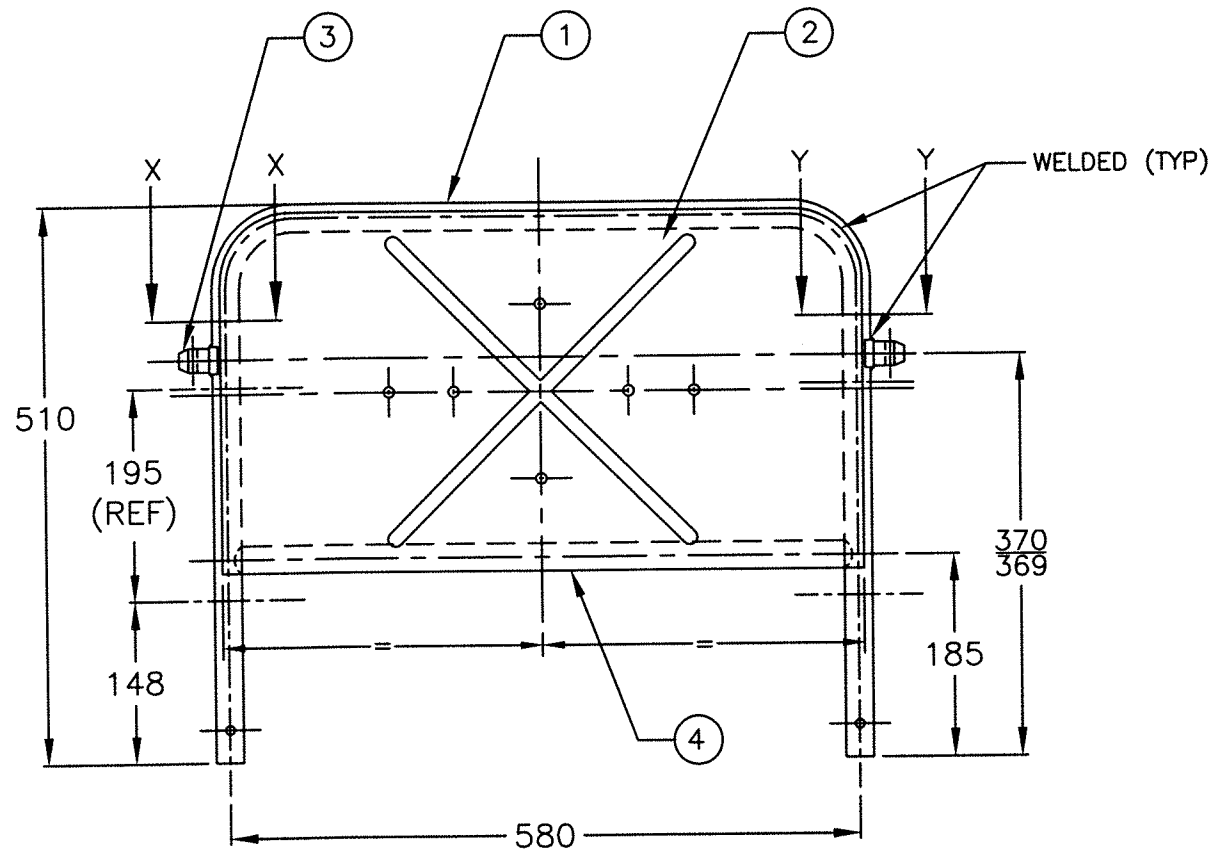


NOTE:—

1.DRESS ALL WELDED JOINTS.

SNNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
 ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR 				
DGN	<i>Ashish</i>	NOM	BOTTOM BRACKET ASSY (LEFT)	
DRN	<i>Ashish</i>	MTL	_____	
CHD	<i>Qian</i>	TOL	INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.126 mm	UNLESS SPECIFIED
DIM	INmm	FIN	POWDER COATED COLOUR AS APPROVED	
SCALE	NTS	DRG No:—TD 2 C 48 A G0		
APP	<i>Qian</i>			
DATE	23.04.2015	SHEET		1 OF 1

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 C 48 A H1	BACK REST TUBE	1	
2.	TD 2 C 48 A H2	BACK REST SHEET	1	
3.	TD 2 C 48 A H3	HOLDER ROD (SMALL)	2	
4.	TD 2 C 98 J 07	REAR CROSS MEMBER	1	

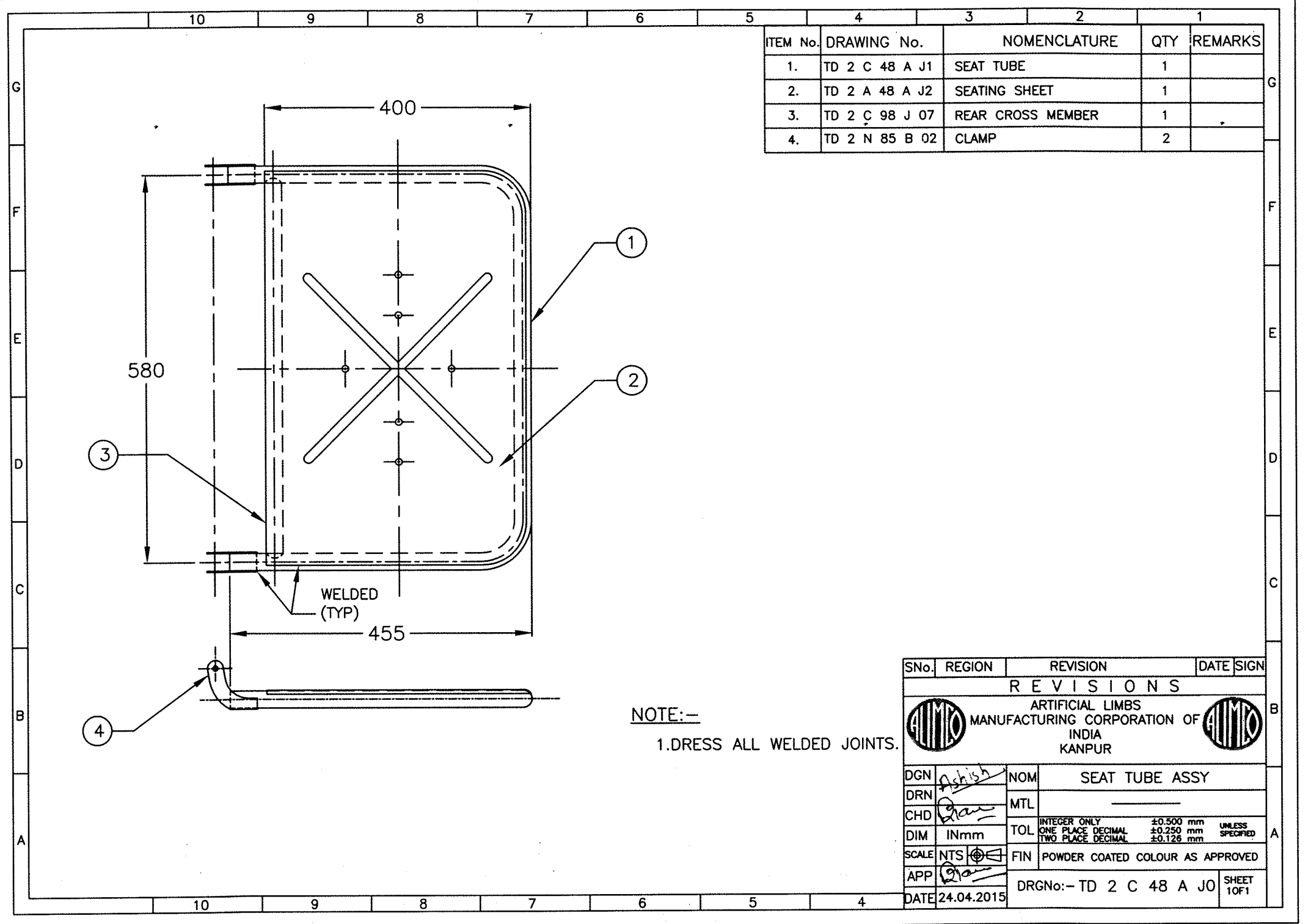


SECTION XX

SECTION YY

NOTE:-
1.DRESS ALL WELDED JOINTS.

SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR				
DGN		NOM	BACK REST TUBE ASSY.	
DRN	<i>Ashish</i>	MTL		
CHD	<i>Raw</i>	TOL	INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.125 mm <small>UNLESS SPECIFIED</small>	
DIM	INmm	FIN	POWDER COATED COLOUR AS APPROVED	
SCALE	NTS	APP		
DATE	24.04.2015	DRGNo:-	TD 2 C 48 A HO	SHEET 10F1

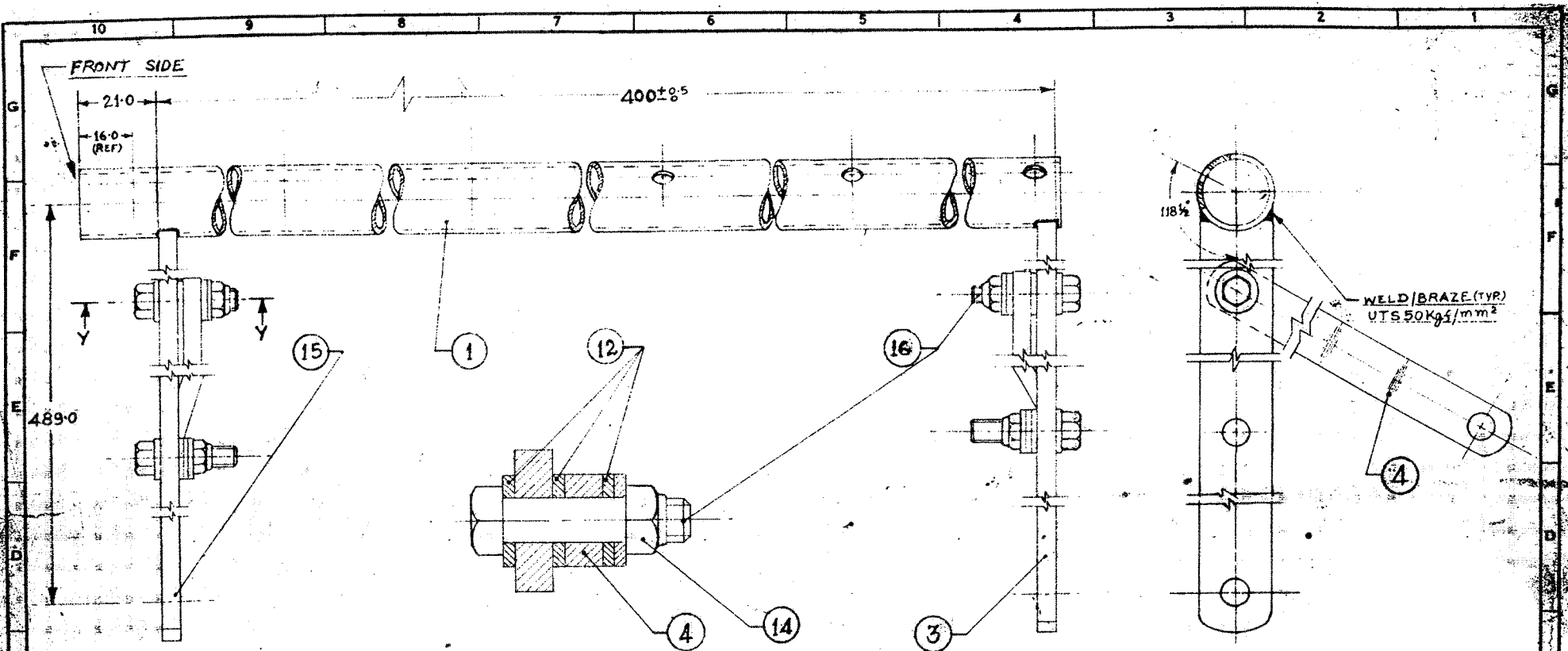


ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 C 48 A J1	SEAT TUBE	1	
2.	TD 2 A 48 A J2	SEATING SHEET	1	
3.	TD 2 C 98 J 07	REAR CROSS MEMBER	1	
4.	TD 2 N 85 B 02	CLAMP	2	

NOTE:-
1.DRESS ALL WELDED JOINTS.

SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR				
DGN	Ashish	NOM	SEAT TUBE ASSY	
DRN		MTL		
CHD		TOL	INTEGER ONLY ±0.500 mm UNLESS SPECIFIED ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.126 mm	
DIM	IN/mm	FIN	POWDER COATED COLOUR AS APPROVED	
SCALE	NTS	APP		
DATE	24.04.2015	DRGNo:-	TD 2 C 48 A J0	SHEET 10F1

TD2C51000



SECTION-Y-Y
(SCALE=2:1)

NOTE:-

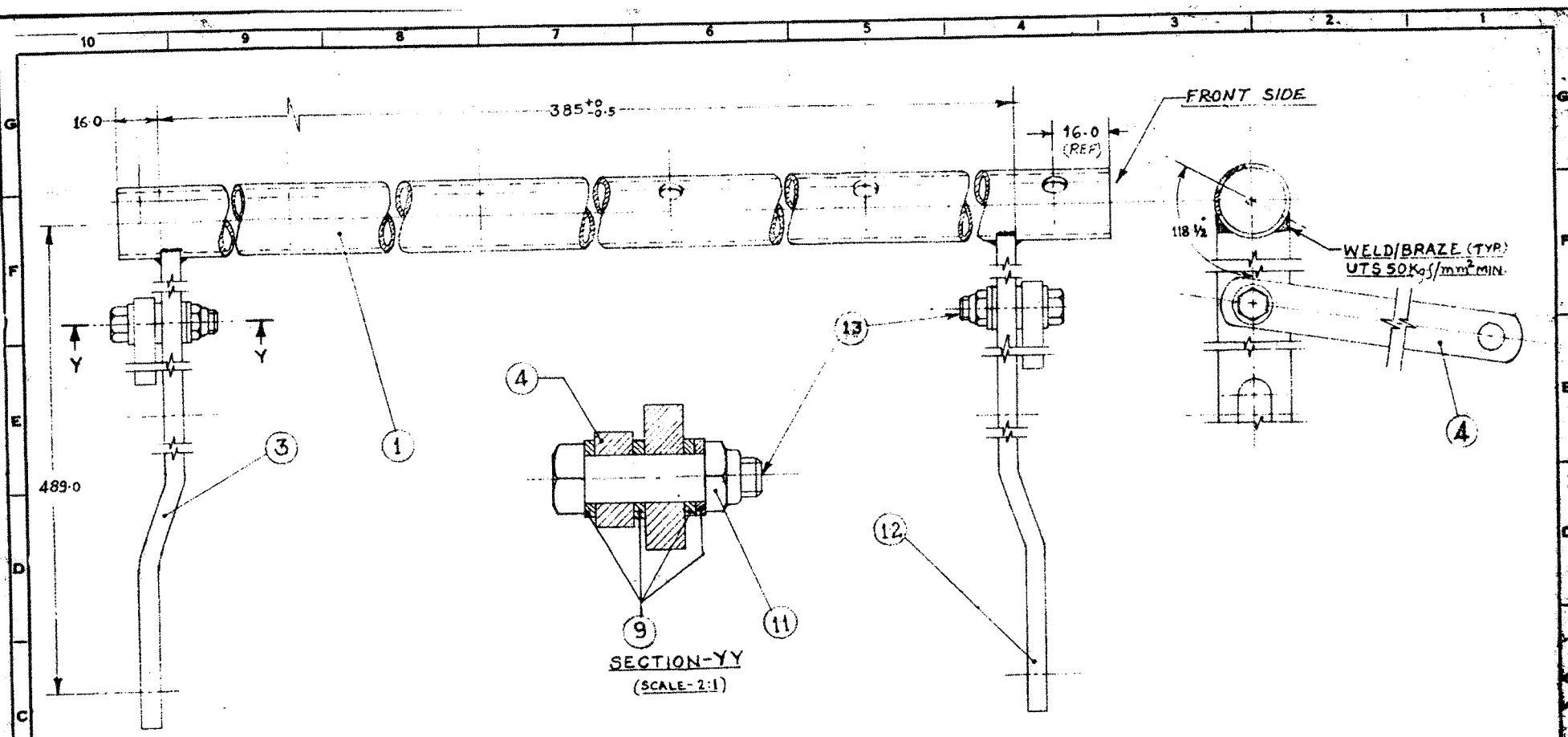
1. REMOVE SHARP EDGES & CORNERS.
2. ITEM NO. 4, 15 (NO. OFF 2, 4), 14 (NO. OFF 4) & 12 (NO. OFF 16) TO BE ASSEMBLED AFTER PLATING/PAINTING OF ITEM NO. 1, 3 & 15.
3. ALL WELDS TO BE DRESSED & FINISHED SMOOTH.
4. ITEM NO. 16 (NO. OFF 4), 14 (NO. OFF 4), 12 (NO. OFF 16) DO NOT FORM A PART OF ASSEMBLY TO BE INCORPORATED AT THE TIME OF MAIN ASSEMBLY OF WHEEL CHAIR.

ITEM NO.	DRG. NO.	NOMENCLATURE	NO. OFF	REMARK
16	BB04	HEX BOLT M6 X 25mm.	4	IS:1363
15	TD 2 A 07 D 10	STRIP FOLDING (RIGHT)FRONT	1	
14	BA 82	NYLOCK NUT M6	4	SEE NOTE NO. 2
13	TD 2 A 07 D 09	HEX. BOLT	4	DELETED
12	TD 2 A 07 D 08	WASHER I.D. 6	16	SEE NOTE NO. 2
4	TD 2 A 07 D 04	LINK RIGHT	2	
3	TD 2 A 07 D 03	STRIP FOLDING RIGHT	1	
1	TD 2 A 07 D 01	RAIL SEAT	1	

PRODUCT No.	FINISH
TD 2 A 07 0 00	NL-Gr. PLATED GR. 2, IS: 1068
TD 2 A 08 0 00	
TD 2 C 51 0 00	POWDER COATED COLOUR AS APPROVED

01 | G 2 | 003

15.	FINISH WAS STOVE ENAMEL PAINT	4.6.14	<input checked="" type="checkbox"/>
S No.	REGION	REVISION	DATE SIG.
REVISIONS			
ARTIFICIAL LIMBS			
MANUFACTURING CORPN OF INDIA KANPUR			
DR	<i>[Signature]</i>	NOM	SEAT FRAME ASSY RIGHT
DRR	<i>[Signature]</i>	MTL	
CND	<i>[Signature]</i>		
DATE	23-10-78	PDL	INDICATED
SCALE	1:1	PH	
APP	<i>[Signature]</i>	ORG No.	TD 2 A 07 D 00
DATE	23-10-78		



NOTE :-

- 1 REMOVE SHARP EDGES & CORNERS.
- 2 ITEM NO. 4, 9, 13, 11 TO BE ASSEMBLED AFTER PLATING/PAINING OF ITEM NO. 1, 3 & 12.
- 3 ALL WELDS TO BE DRESSED & FINISHED - SMOOTH.

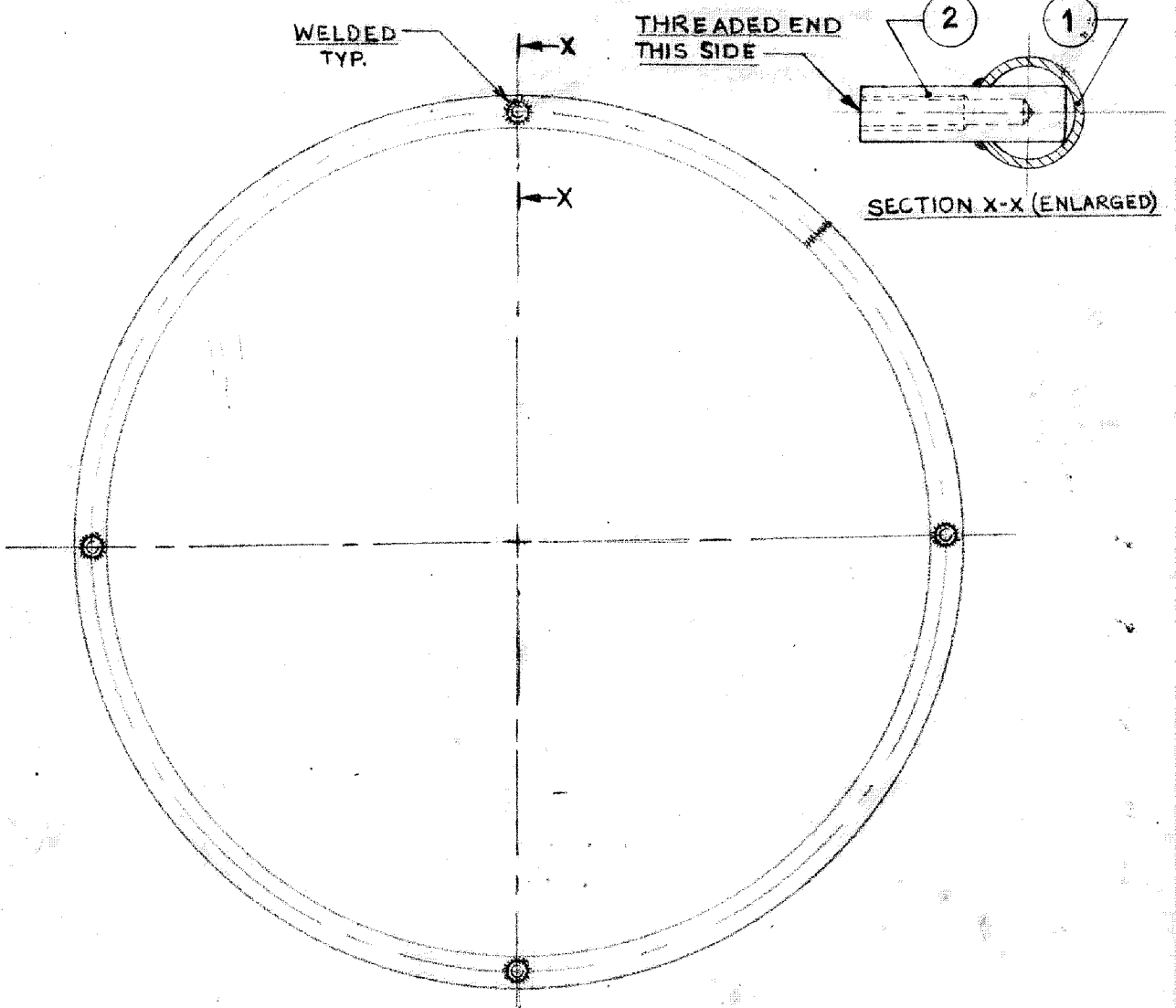
16.	—	FINISH WAS STOVE ENAMEL PAINT	14.6.14	(9)
S No.	REGION	REVISION	DATE	SIG.
REVISIONS				
ARTIFICIAL LIMBS				
MANUFACTURING CORPN				
OF INDIA				
KANPUR				
DRN	<i>Ar. Sharma</i>	NON.	SEAT FRAME ASSY. LEFT	
DRN	<i>R. S. Sharma</i>	NFL		
CHD	<i>S. Singh</i>			
DWG	IN mm	TOL	NITROEN ONLY ± 0.300 mm ONE PLACE DECIMAL ± 0.250 mm UNLESS SPECIFIED TWO PLACE DECIMAL ± 0.125 mm ANGLE TO 1/16°	
SCALE	1:1	PK.	INDICATED	
APP	<i>Ar. Sharma</i>		DRG No. TD 2 A 07 E 00	
DATE	23-10-78		SHEET 1 OF 1	

13	BB 04	HEX BOLT M6x25mm.	2	IS:1363
12	TD 2 A 07 E 03	STRIP FOLDING LEFT (FRONT)	1	
11	B A 02	NYLOCK NUT M6	2	
10	TD 2 A 07 D 09	HEX. BOLT	2	DELETED
9	TD 2 A 07 D 08	WASHER I.D. 6	8	
4	TD 2 A 07 E 02	LINK LEFT	2	
3	TD 2 A 07 E 01	STRIP FOLDING LEFT	1	
1	TD 2 A 07 D 01	RAIL SEAT	1	
ITEM No.	DRG. NO.	NOME NCLATURE	NO. OF	REMARK

PRODUCT No.	FINISH
TD 2 A 07 0 00	Ni-Cr-PLATED Gd. 2, IS:1068
TD 2 A 08 0 00	POWDER COATED COLOUR AS APPROVED
TD 2 C 51 0 00	
01	G 2 004

5 4 3 2 1

IT. NO.	DRG. NO.	NOMENCLATURE	NO. OFF.	REMARK
1.	TD 2 A 07 N 14	HAND RIM	1	
2.	TD 2 A 06 J C2	NUT	4	



2	A-2	FIN (STOVE ENAMEL PAINT) ADDED	6.7.2000	RF
1	F-2	NOTE IN SECTION X-X ADDED	1.3.82	K
S No.	REGION	REVISION	DATE	SIG.

REVISIONS



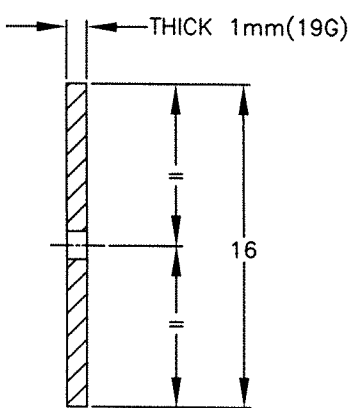
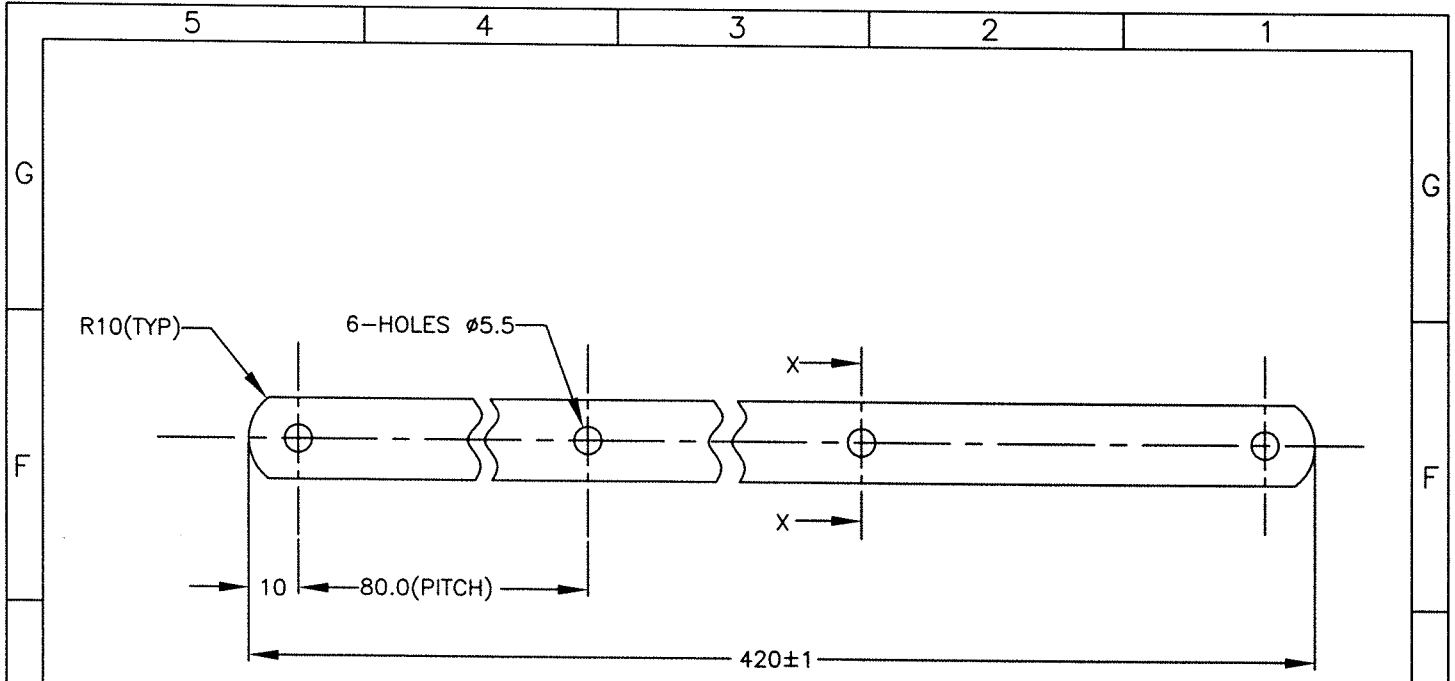
ARTIFICIAL LIMBS
MANUFACTURING CORPN
OF INDIA
KANPUR



DGN.	<i>Amethur</i>	NOM	HAND RIM ASSY.
DRN	<i>S. Krishna</i>	MTL	
CHD	<i>R. Devraj</i>	TOL	INTEGER ONLY ± 0.500 mm ONE PLACE DECIMAL ± 0.250 mm TWO PLACE DECIMAL ± 0.125 mm UNLESS SPECIFIED
DIM.	IN mm	FIN	Ni-Cr. PLATED Gd. 2, IS: 1068 OR STOVE ENAMEL PAINT COLOUR-BLACK
SCALE	1:4	APP	<i>R. Devraj</i>
DATE	11.1.82	DRG No.	TD 2 A 07 N DO 1 OF 1



01 K 8 081

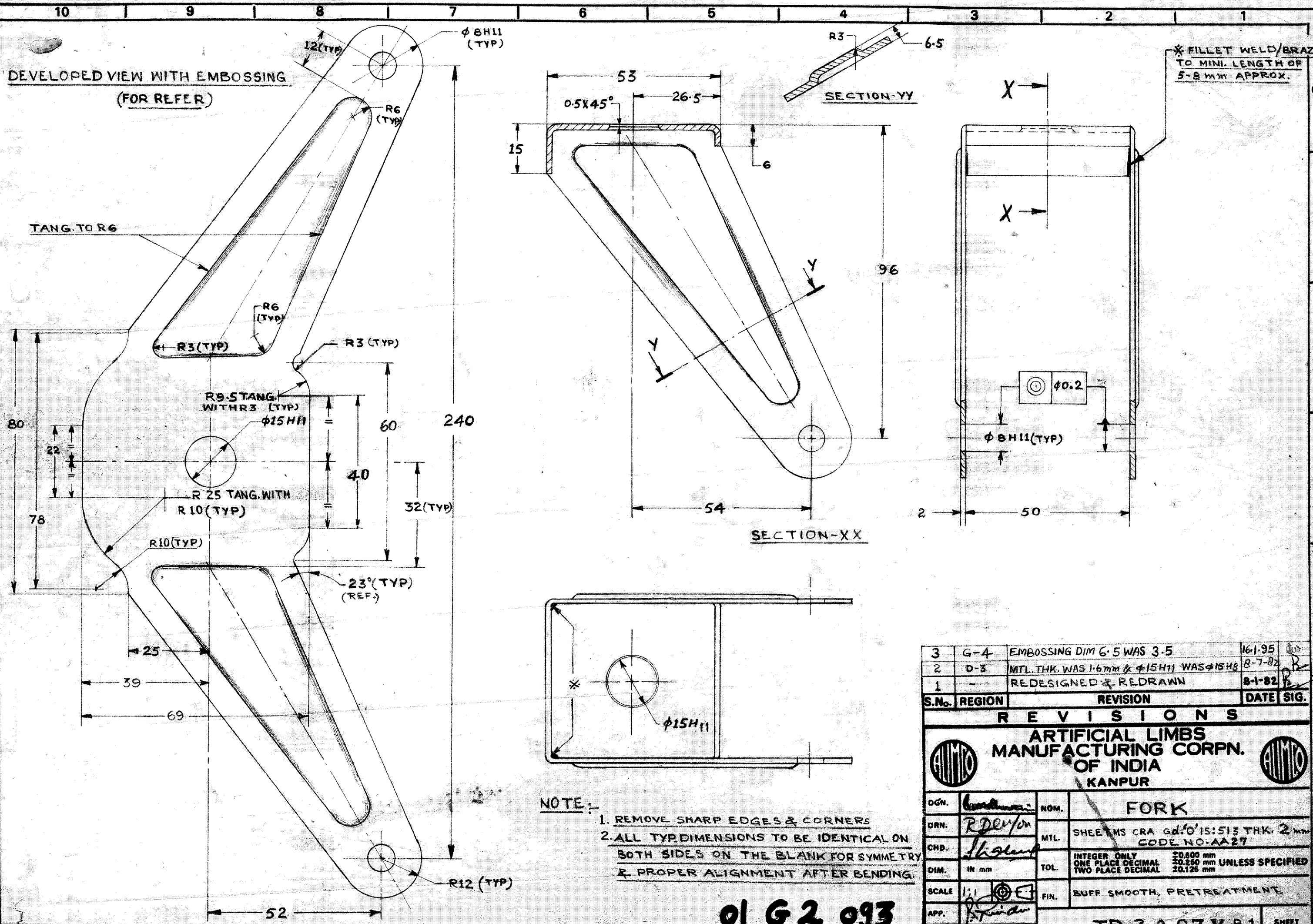
5 4



ENLARGED SECTION--XX

NOTE:--
1. REMOVE SHARP EDGES & CORNERS.

6.	---	DRAWING REDRAWN	26.05.15	<i>[Signature]</i>
SNo.	REGION	REVISION	DATE	SIGN
R E V I S I O N S				
 ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR 				
DGN		NOM	STRIP REINFORCING	
DRN	<i>Ashish</i>	MTL	SHEET MS HRA Gd'0' IS:1079 THK.1mm (AA02) OR SHEET MS CRA Gd'0' IS:513 THK.1mm (AA22)	
CHD	<i>[Signature]</i>	TOL	INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.126 mm	UNLESS SPECIFIED
DIM	IN mm	FIN	POWDER COATED COLOUR AS APPROVED	
SCALE	NTS	APP	<i>Sa/DD1</i>	
01	K	5	196	
5		4		
DATE	23.10.1978	DRG No:--	TD 2 A 07 P 01	SHEET 10F1



S.No.	REGION	REVISION	DATE	SIG.
3	G-4	EMBOSsing DIM 6.5 WAS 3.5	16-1-95	[Signature]
2	D-3	MTL. THK. WAS 1.6mm & $\phi 15H11$ WAS $\phi 15H8$	8-7-82	[Signature]
1	-	REDESIGNED & REDRAWN	8-1-82	[Signature]

REVISIONS

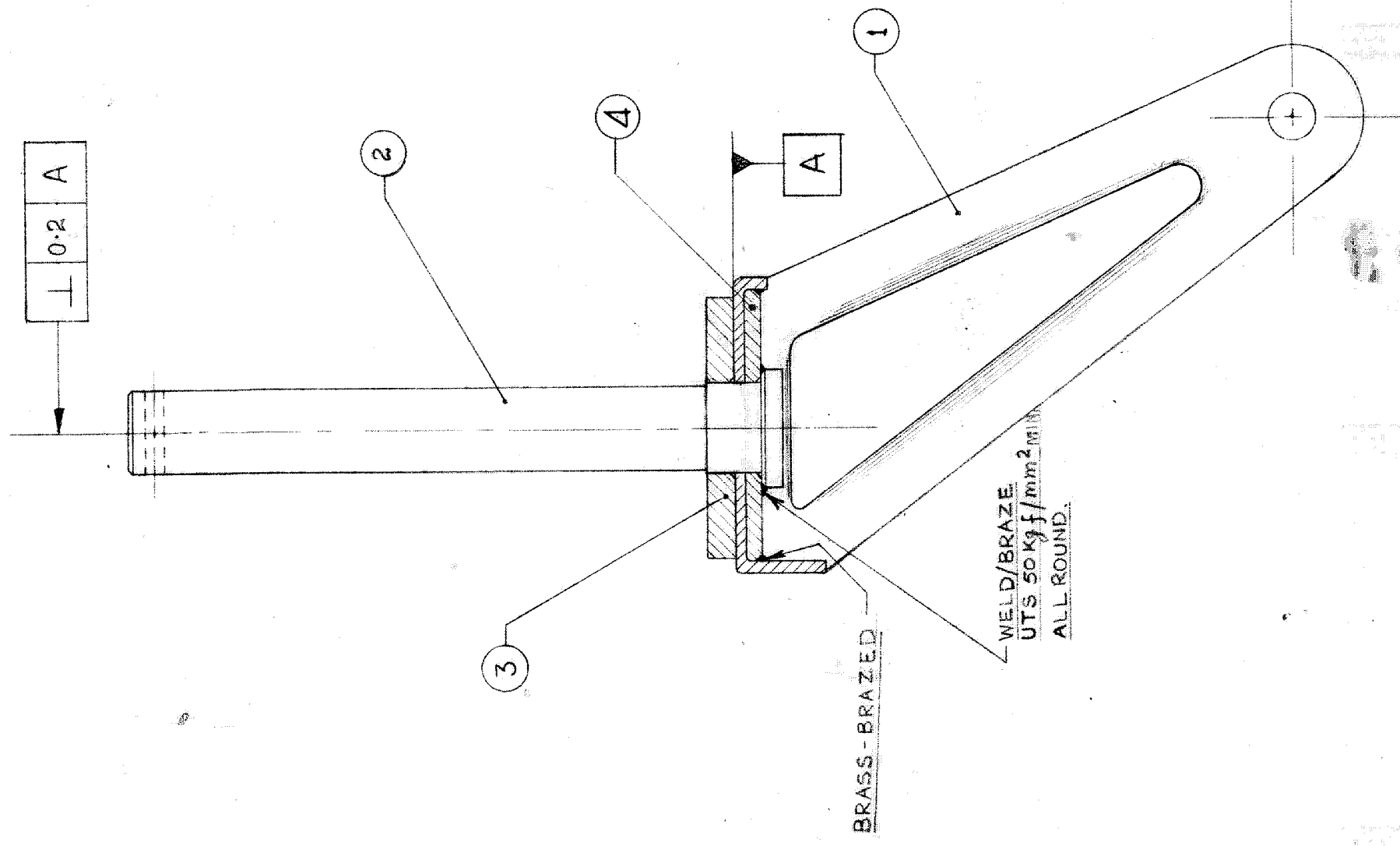
ARTIFICIAL LIMBS MANUFACTURING CORPN. OF INDIA KANPUR

DGN.	[Signature]	NOM.	FORK
DRN.	R. Dev/om	MTL.	SHEET MS CRA Gd. 10'15:513 THK. 2mm CODE NO. AA27
CHD.	[Signature]	TOL.	INTEGER ONLY 20.500 mm ONE PLACE DECIMAL 20.250 mm TWO PLACE DECIMAL 20.125 mm
DIM.	IN mm	FIN.	BUFF SMOOTH, PRETREATMENT
SCALE	1:1	APP.	[Signature]
DATE	11-4-81	ORG. NO.	ID 2A07VB1

SHEET 1 OF 1

01 G 2 093

IT. NO.	DRG. NO.	NOMENCLATURE	NO. OFF.	REMARK
1	TD 2 A 07 V B1	FORK	1	
2	TD 2 A 07 V B2	STEM	1	
3	TD 2 A 07 V B3	PLATE BEARING LOWER	1	
4	TD 2 A 07 V B4	PLATE STIFFENER	1	

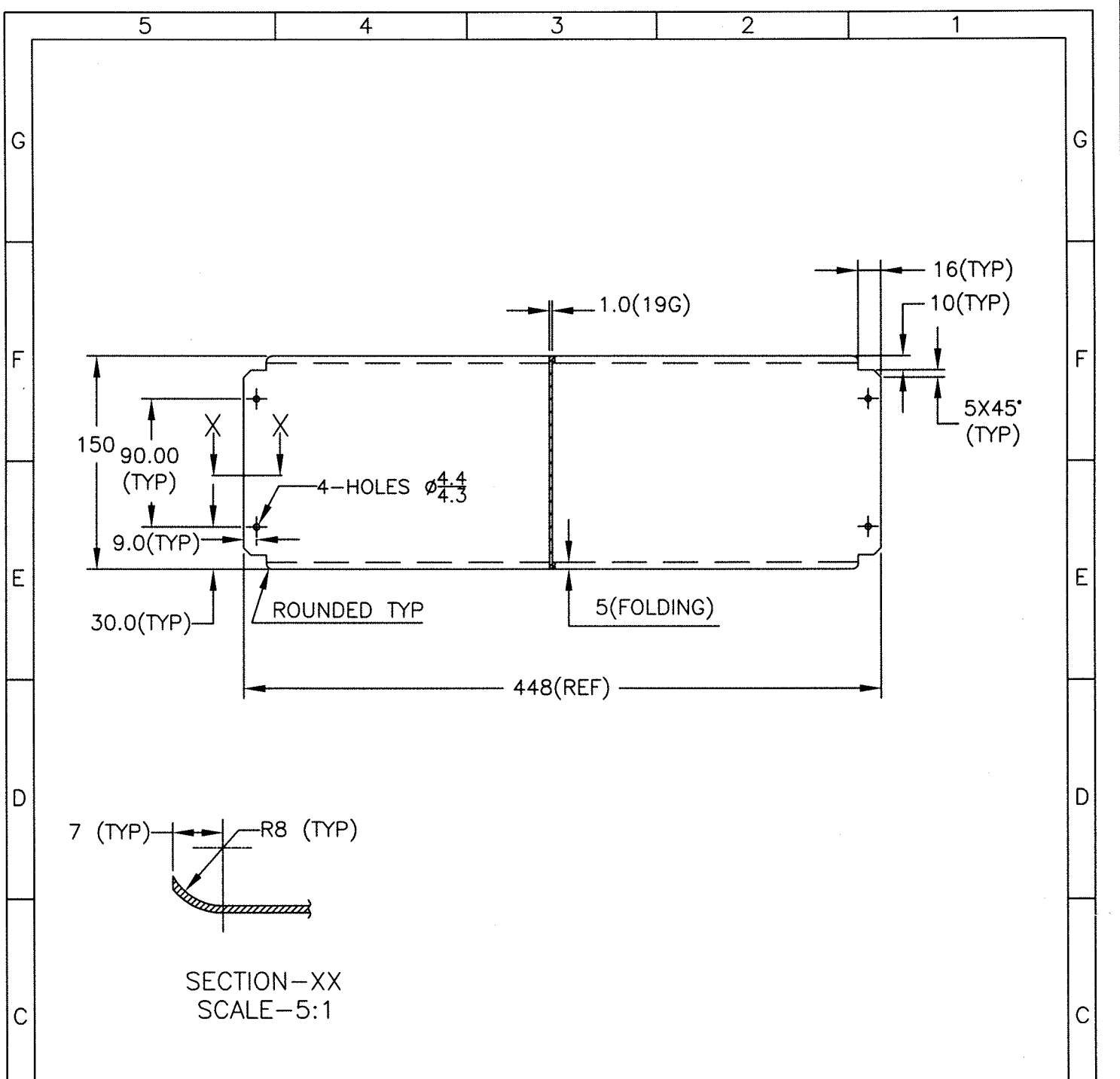


NOTE:—
 1. POSITION ASSY. OF IT. NO. 2 & 4 IN IT. NO. 1 AS SHOWN AND BRAZE ALL ROUND.
 2. PRESSFIT ITEM NO. 3
 3. PAINT INNER AND OUTER SURFACE OF IT. NO. 1 MASKING ITEM NO. 2 & 3.

S.No.	REGION	REVISION	DATE	SIG.
3	A-2	FINISH MODIFIED.	6.7.2008	
2	G-8	UNDERCUT DELETED & HOLE ADD. AT IT. NO. 2	9.8.02	
1	D-8, D-7	ITEM NO. 4 ADD. & NOTE NO. 1 MODIFIED	9.7.82	

		ARTIFICIAL LIMBS MANUFACTURING CORPN. OF INDIA KANPUR			
DGM. <i>Munish</i> NOM.	DPN. <i>Munish</i> MTL.	CHD. <i>Munish</i> TOL.	DIM. IN mm	SCALE 1:1	APP. <i>Peter</i> FIN.
FORK STEM ASSY.			INTEGER ONLY 30.000 mm ONE PLACE DECIMAL 30.350 mm TWO PLACE DECIMAL 30.125 mm	UNLESS SPECIFIED STOVE ENAMEL SILVER PAINT HAMMER TONE COLOUR GREY OR AS APPLD.	
DRG. NO. TD 2 A 07 V B0					



0162071



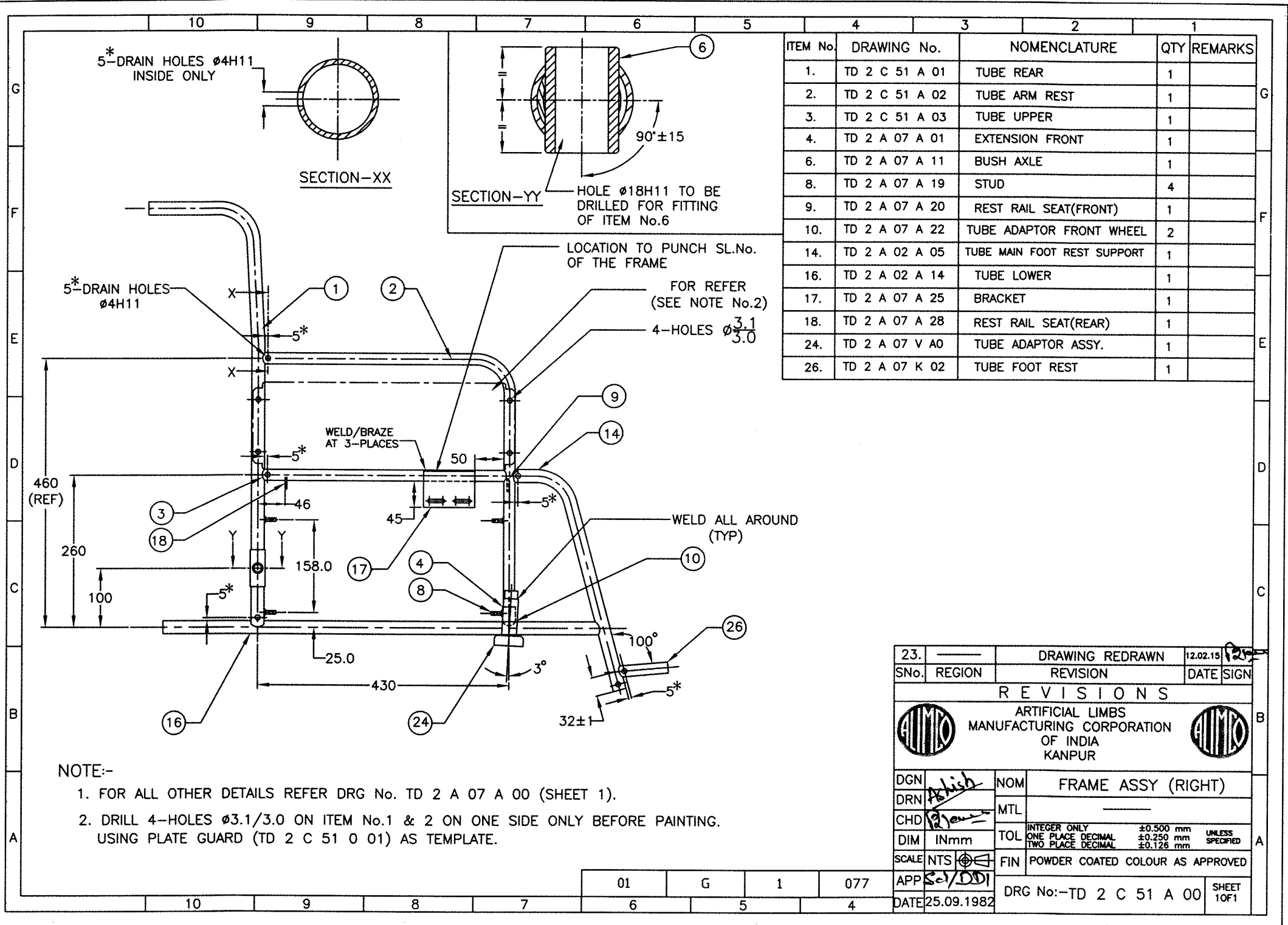
SECTION-XX
SCALE-5:1

NOTE:-

- 1.REMOVE SHARP EDGES & CORNERS.

4.	—	DRAWING REDRAWN	03.12.14	<i>Beau</i>
SNo.	REGION	REVISION	DATE	SIGN
R E V I S I O N S				
		ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR		
				
DGN		NOM	PLATE GUARD	
DRN	<i>Achish</i>	MTL	STEEL MS CRA Gd '0' IS:513, THICK 1mm (AA 22)	
CHD	<i>Beau</i>	TOL	INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.126 mm UNLESS SPECIFIED	
DIM	IN mm	FIN	POWDER COATED COLOUR AS APPROVED	
SCALE	NTS	APP	DRG No:-TD 2 C 51 0 01	
APP	<i>st/DDi</i>	DATE	30.09.1982	SHEET 10F1

01	K	5	163
5		4	

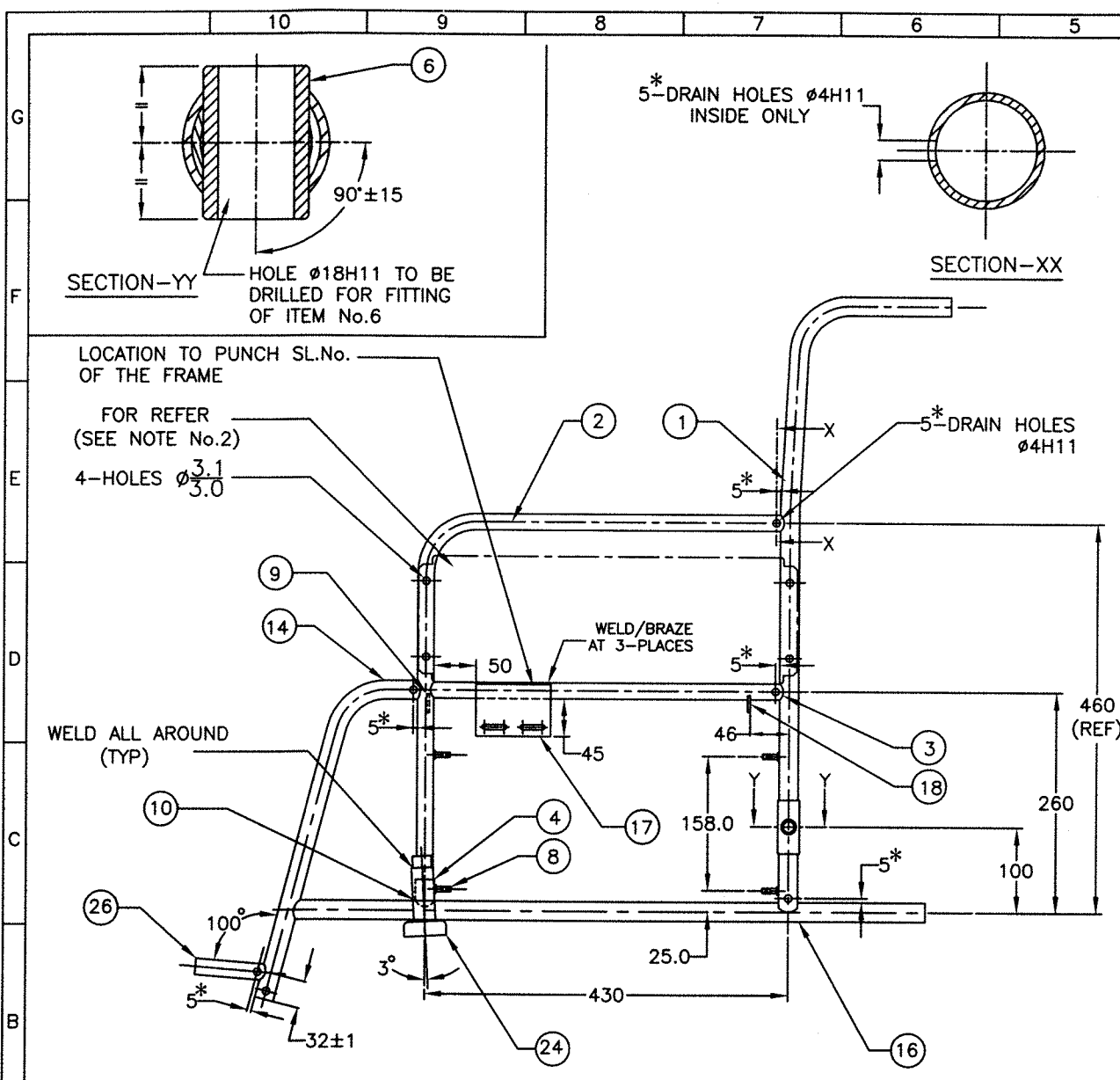


ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 C 51 A 01	TUBE REAR	1	
2.	TD 2 C 51 A 02	TUBE ARM REST	1	
3.	TD 2 C 51 A 03	TUBE UPPER	1	
4.	TD 2 A 07 A 01	EXTENSION FRONT	1	
6.	TD 2 A 07 A 11	BUSH AXLE	1	
8.	TD 2 A 07 A 19	STUD	4	
9.	TD 2 A 07 A 20	REST RAIL SEAT(FRONT)	1	
10.	TD 2 A 07 A 22	TUBE ADAPTOR FRONT WHEEL	2	
14.	TD 2 A 02 A 05	TUBE MAIN FOOT REST SUPPORT	1	
16.	TD 2 A 02 A 14	TUBE LOWER	1	
17.	TD 2 A 07 A 25	BRACKET	1	
18.	TD 2 A 07 A 28	REST RAIL SEAT(REAR)	1	
24.	TD 2 A 07 V A 0	TUBE ADAPTOR ASSY.	1	
26.	TD 2 A 07 K 02	TUBE FOOT REST	1	

23.	—	DRAWING REDRAWN	12.02.15	<i>[Signature]</i>
SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR				
DGN	<i>[Signature]</i>	NOM	FRAME ASSY (RIGHT)	
DRN	<i>[Signature]</i>	MTL		
CHD	<i>[Signature]</i>	TOL	INTEGER ONLY ±0.500 mm UNLESS SPECIFIED ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.125 mm	
DIM	IN/mm	FIN	POWDER COATED COLOUR AS APPROVED	
SCALE	NTS	APP	<i>[Signature]</i>	
DATE	25.09.1982	DRG No.:	TD 2 C 51 A 00	SHEET 10F1

NOTE:-
 1. FOR ALL OTHER DETAILS REFER DRG No. TD 2 A 07 A 00 (SHEET 1).
 2. DRILL 4-HOLES Ø3.1/3.0 ON ITEM No.1 & 2 ON ONE SIDE ONLY BEFORE PAINTING. USING PLATE GUARD (TD 2 C 51 0 01) AS TEMPLATE.

10	9	8	7	6	5	4
				01	G	1
						077
						DATE



ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 C 51 A 01	TUBE REAR	1	
2.	TD 2 C 51 A 02	TUBE ARM REST	1	
3.	TD 2 C 51 A 03	TUBE UPPER	1	
4.	TD 2 A 07 A 01	EXTENSION FRONT	1	
6.	TD 2 A 07 A 11	BUSH AXLE	1	
8.	TD 2 A 07 A 19	STUD	4	
9.	TD 2 A 07 A 20	REST RAIL SEAT(FRONT)	1	
10.	TD 2 A 07 A 22	TUBE ADAPTOR FRONT WHEEL	2	
14.	TD 2 A 02 A 05	TUBE MAIN FOOT REST SUPPORT	1	
16.	TD 2 A 02 A 14	TUBE LOWER	1	
17.	TD 2 A 07 A 25	BRACKET	1	
18.	TD 2 A 07 A 28	REST RAIL SEAT(REAR)	1	
24.	TD 2 A 07 V A 0	TUBE ADAPTOR ASSY.	1	
26.	TD 2 A 07 K 02	TUBE FOOT REST	1	

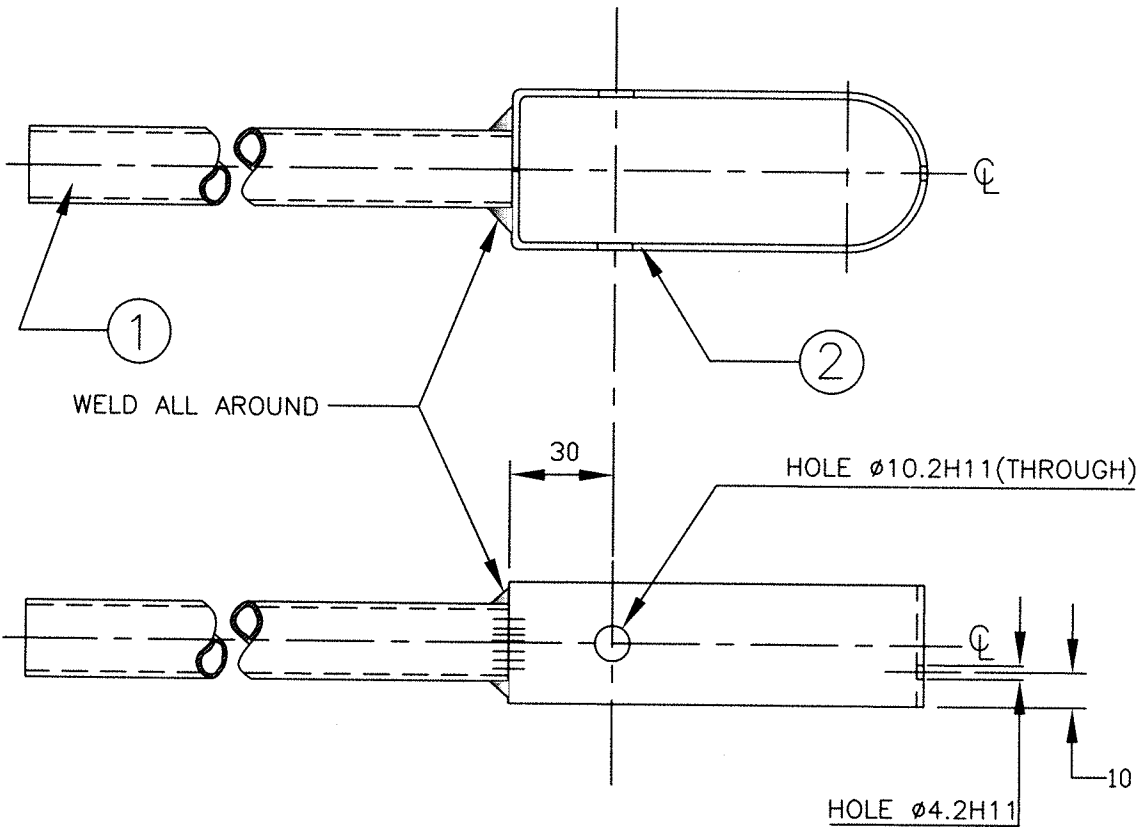
NOTE:-
 1. FOR ALL OTHER DETAILS REFER DRG No. TD 2 A 07 A 00 (SHEET 1).
 2. DRILL 4-HOLES $\phi 3.1/3.0$ ON ITEM No.1 & 2 ON ONE SIDE ONLY BEFORE PAINTING USING PLATE GUARD (TD 2 C 51 0 01) AS TEMPLATE.

23.	---	DRAWING REDRAWN	12.02.15	12
SNo.	REGION	REVISION	DATE	SIGN
R E V I S I O N S				
		ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR		
DGN	<i>Ashish</i>	NOM	FRAME ASSY.(LEFT)	
DRN	<i>Shaw</i>	MTL		
CHD		TOL	<small>INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.125 mm</small> <small>UNLESS SPECIFIED</small>	
DIM	IN/mm	FIN	POWDER COATED COLOUR AS APPROVED	
SCALE	NTS			
APP	<i>Sa/DB</i>		DRG No:-TD 2 C 51 B 00	
DATE	25.09.1982		SHEET 10F1	

01	G	1	077
6	5	4	

TD2C98000

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 C 98 A A1	HANDLE TUBE	1	
2.	TD 2 C 98 A A2	'U' CLAMP	1	



NOTE:--

1. DRESS WELDED JOINTS

2	—	DRAWING REDRAWN	18 ³ ₁₃	<i>RW</i>
SNo.	REGION	REVISION	DATE	SIGN

REVISIONS



ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR



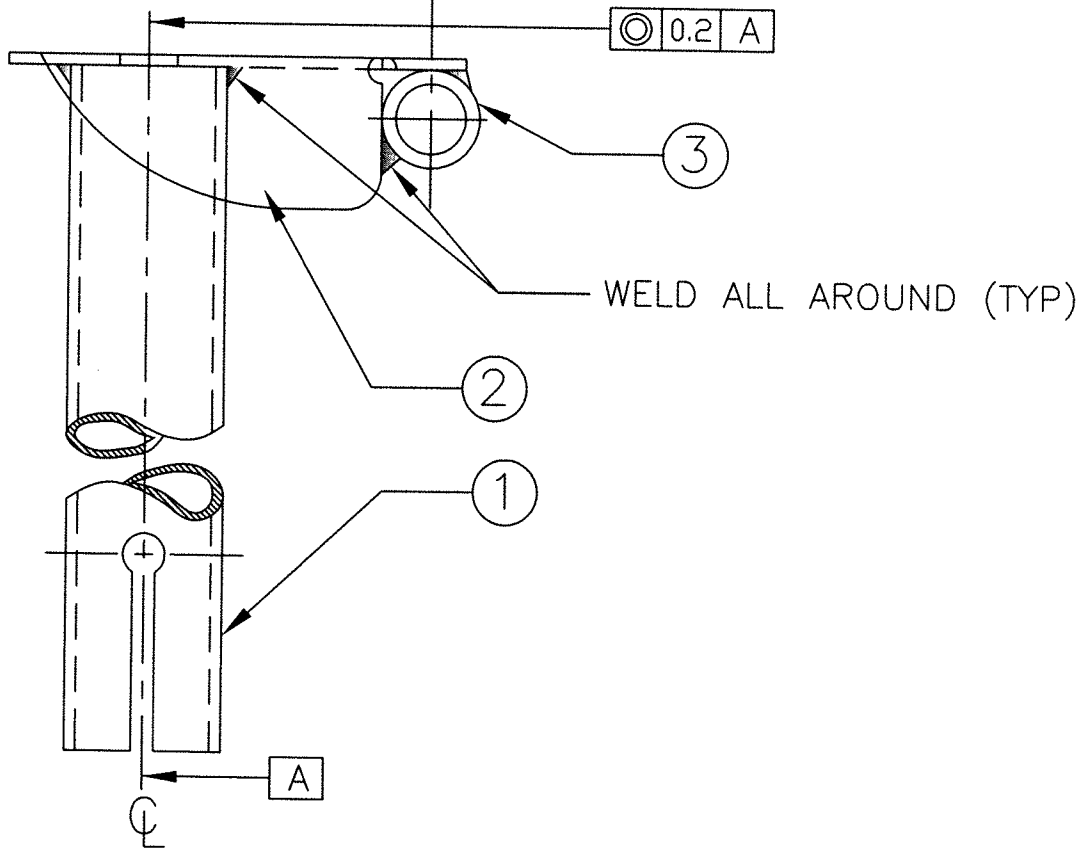
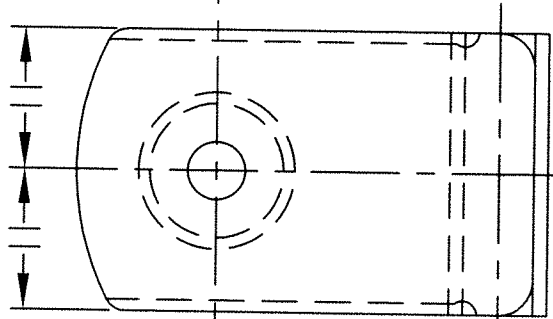
DGN	<i>21aw</i>	NOM	HANDLE ASSEMBLY	
DRN	<i>Phad</i>	MTL	—	
CHD	<i>21aw</i>	TOL	INTEGER ONLY ±0.500 mm	UNLESS SPECIFIED
DIM	IN mm		ONE PLACE DECIMAL ±0.250 mm	
			TWO PLACE DECIMAL ±0.126 mm	
SCALE	NTS	FIN	POWDER COATED COLOUR AS APPROVED	
APP	<i>[Signature]</i>	DRG No:--	TD 2 C 98 A A0	SHEET 10F1
DATE	26.12.1991			

01 K 8 221

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4

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 C 98 A B1	CENTRE TUBE	1	
2.	TD 2 C 98 A B2	BRACKET	1	
3.	TD 2 C 98 A B3	BUSH	1	



FIN:—

ZINC PLATED THK 6 TO 8 MICRONS
OR
POWDER COATED COLOUR AS APPD

NOTE:—

1. DRESS WELDED JOINTS

4	—	DRAWING REDRAWN	18 ³	<i>[Signature]</i>
SNo.	REGION	REVISION	DATE	SIGN

REVISIONS



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MANUFACTURING CORPORATION
OF INDIA
KANPUR

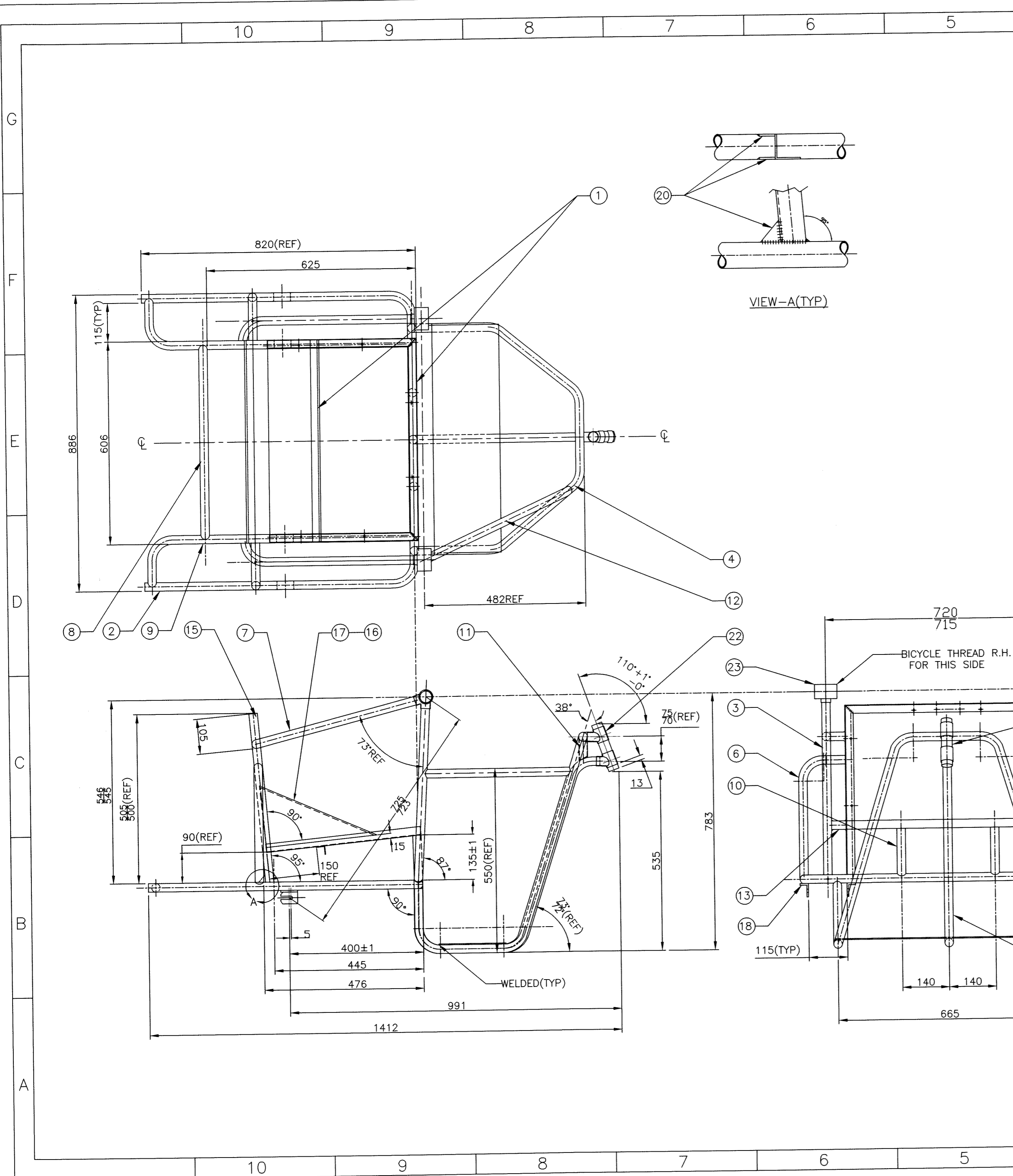


DGN	<i>[Signature]</i>	NOM	CENTRE TUBE ASSEMBLY	
DRN	<i>[Signature]</i>	MTL	—	
CHD	<i>[Signature]</i>	TOL	INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.126 mm	UNLESS SPECIFIED
DIM	IN mm	FIN	INDICATED	
SCALE	NTS	APP	<i>[Signature]</i>	
DATE	26.12.1991	DRG No:—	TD 2 C 98 A B0	SHEET 10F1

01 K 8 224

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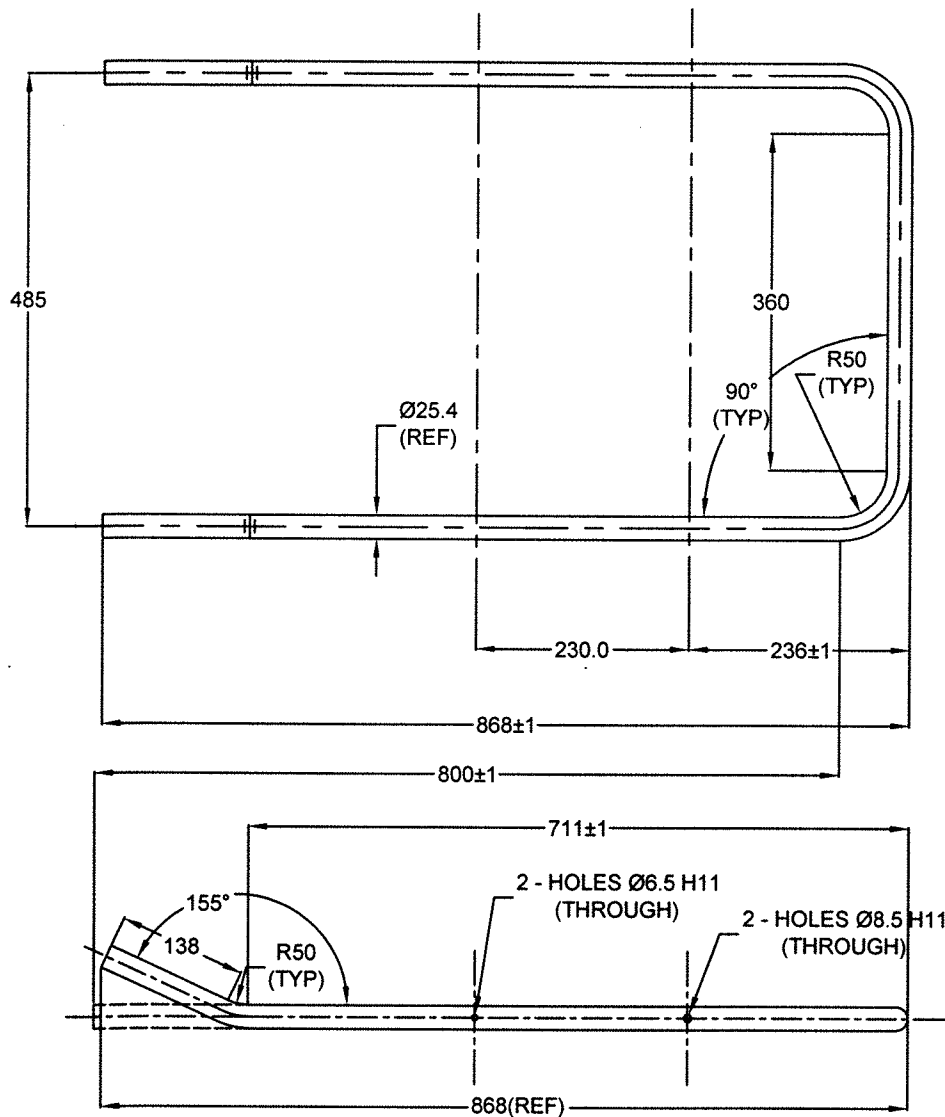
4



ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 C 98 J B0	SEAT BASE SUPPORT ASSY	1	
2.	TD 2 C 98 J 01	REAR LOOP	1	
3.	TD 2 C 98 J 02	VERTICAL SUPPORT	2	
4.	TD 2 C 98 J 03	FOOTREST TUBE	1	
5.	TD 2 C 98 J 04	CENTRAL SUPPORT TUBE	1	
6.	TD 2 C 98 J 05	LOOP SUPPORT TUBE	2	
7.	TD 2 C 98 J 06	SIDE SUPPORT TUBE	2	
8.	TD 2 C 98 J 07	REAR CROSS MEMBER	1	
9.	TD 2 C 98 J 08	REAR LOOP MEMBER	2	
10.	TD 2 C 98 J 09	SEAT STIFFENER	2	
11.	TD 2 C 98 J 10	VERTICAL STIFFENER	1	
12.	TD 2 C 98 J 12	SIDE FRAME SUPPORT TUBE	1	
13.	TD 2 C 98 J 13	STIFFENER	2	
14.	TD 2 C 98 J 19	FOOTREST	1	
15.	TD 2 C 98 A 02	BACKREST SUPPORT	1	
16.	TD 2 C 98 A 09	SIDE GUARD RIGHT	1	
17.	TD 2 C 98 A 10	SIDE GUARD LEFT	1	
18.	TD 2 C 98 A 13	BRACKET RIGHT	2	
19.	TD 2 C 98 A 14	BRACKET LEFT	2	
20.	TD 2 C 98 A 21	BACKREST STIFFENER	4	
21.	LB 86	BICYCLE HEAD TUBE (FACE PIPE)	1	
22.	LB 89	BICYCLE TOP LUG	2	
23.	LB 99	BICYCLE BOTTOM BRACKET	2	



1.	DRG REDESIGN & REDRAWN	20 ⁰⁰ / ₁₃	DATE	SIGN
SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR				
DGN	NOM	FRAME ASSEMBLY		
DRN	MTL			
CHD	TOL	INTEGER ONLY ±0.500 mm	UNLESS SPECIFIED	
DIM	IN mm	ONE PLACE DECIMAL ±0.250 mm		
		TWO PLACE DECIMAL ±0.126 mm		
SCALE	NTS	FIN	POWDER COATED COLOUR AS APPROVED	
APP	DRG No:-TD 2 C 98 J A0			SHEET 10F1
DATE	20.08.2013			

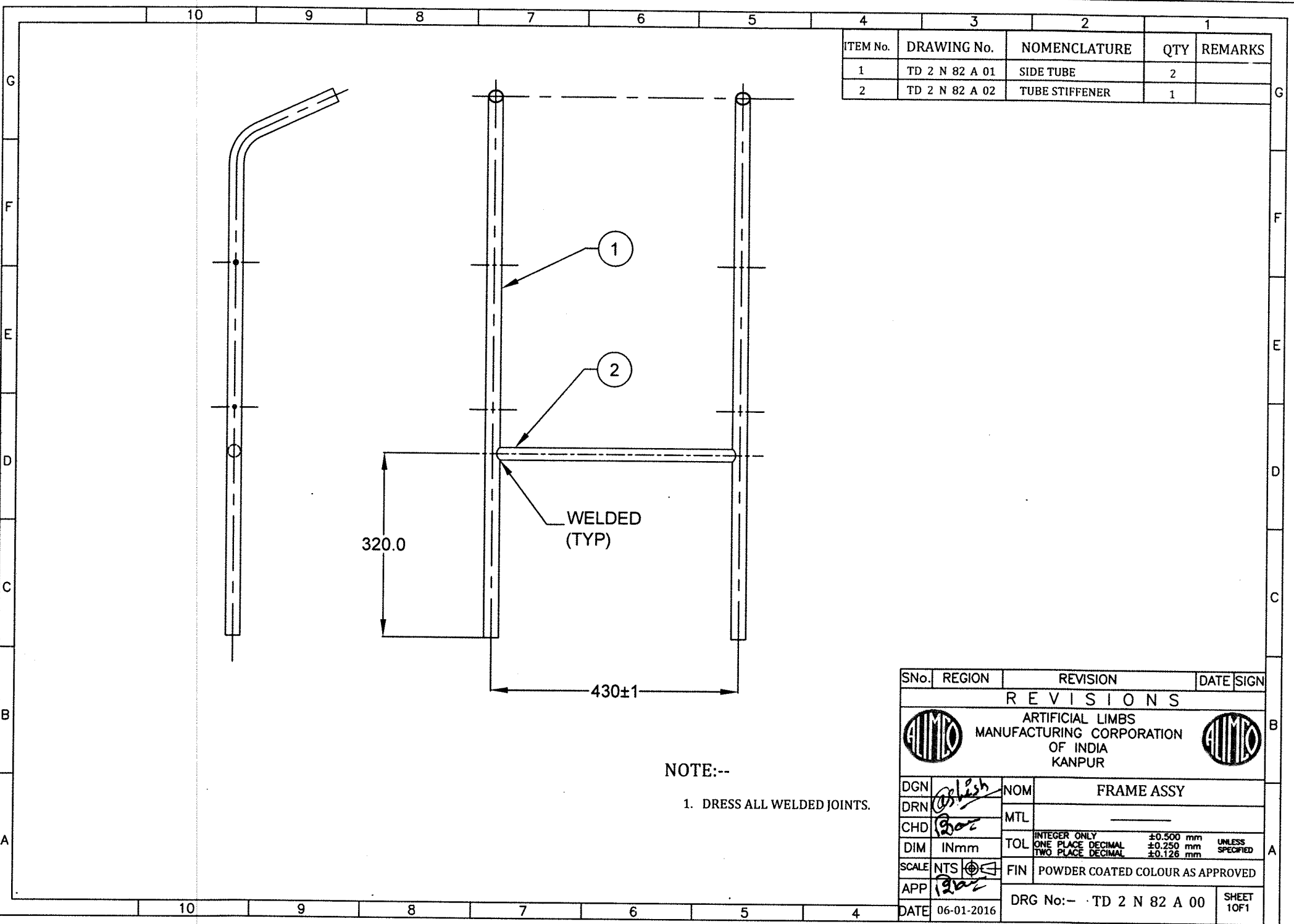
TD2N82000



NOTE:--



1. REMOVE SHARP EDGES & CORNERS.

SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
 ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR 				
DGN	<i>gish</i>	NOM	FRAME TUBE	
DRN	<i>gish</i>	MTL	STEEL TUBE ERW C-1 OD 25.4mm, THICKNESS 1.25mm, IS:2039 (AF 60)	
CHD	<i>gish</i>	TOL	INTEGER ONLY ±0.500 mm UNLESS SPECIFIED ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.125 mm	
DIM	IN/mm	FIN	POWDER COATED COLOUR AS APPROVED	
SCALE	NTS			
APP	<i>gish</i>			
DATE	06-01-2016	DRG No:--	TD 2 N 82 0 01	SHEET 10F1

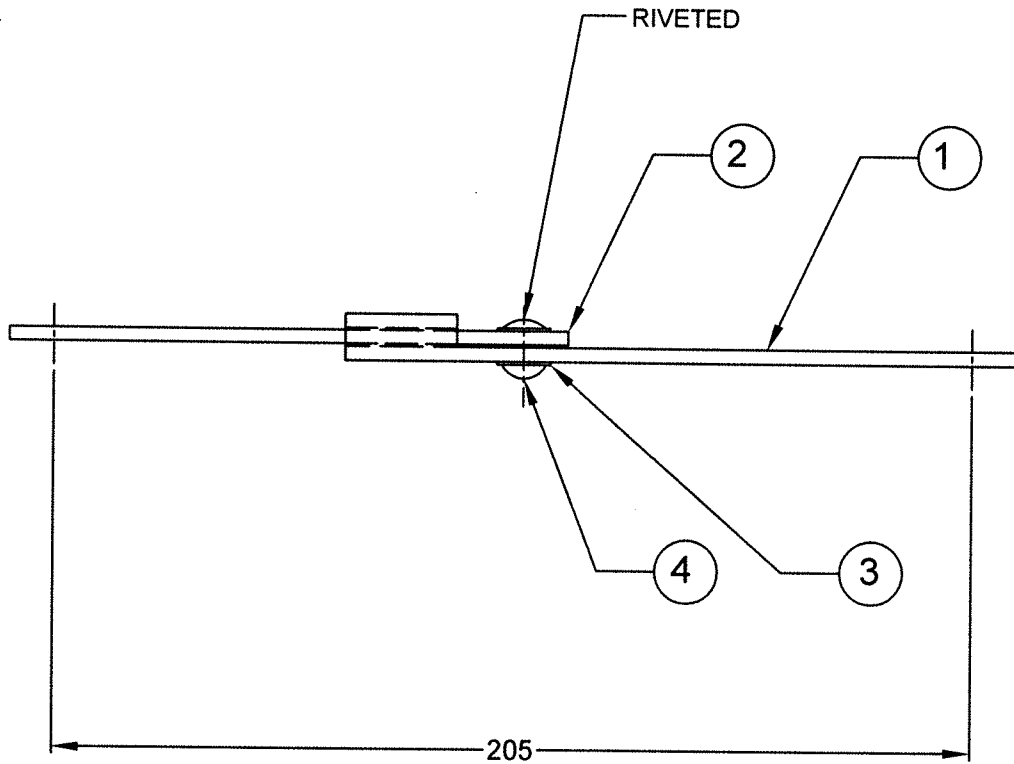


ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1	TD 2 N 82 A 01	SIDE TUBE	2	
2	TD 2 N 82 A 02	TUBE STIFFENER	1	

NOTE:--
1. DRESS ALL WELDED JOINTS.

SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
 ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR 				
DGN	<i>Shish</i>	NOM	FRAME ASSY	
DRN	<i>Shish</i>	MTL		
CHD	<i>Shish</i>	TOL	INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.126 mm <small>UNLESS SPECIFIED</small>	
DIM	IN/mm	FIN	POWDER COATED COLOUR AS APPROVED	
SCALE	NTS	APP		
DATE	06-01-2016	DRG No:--	TD 2 N 82 A 00	SHEET 10F1

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 N 82 B 01	HINGE PLATE (RIGHT)	1	
2.	TD 2 N 82 B 02	LINK PLATE	1	
3.	BS 44	PUNCHED WASHER A6.6, IS:2016, MS	1	
4.	BU 58	FLAT HEAD RIVET 5X12mm, IS:2155, MS	1	



NOTE:--

1. REMOVE SHARP EDGES & CORNERS.

SNo.	REGION	REVISION	DATE	SIGN
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REVISIONS

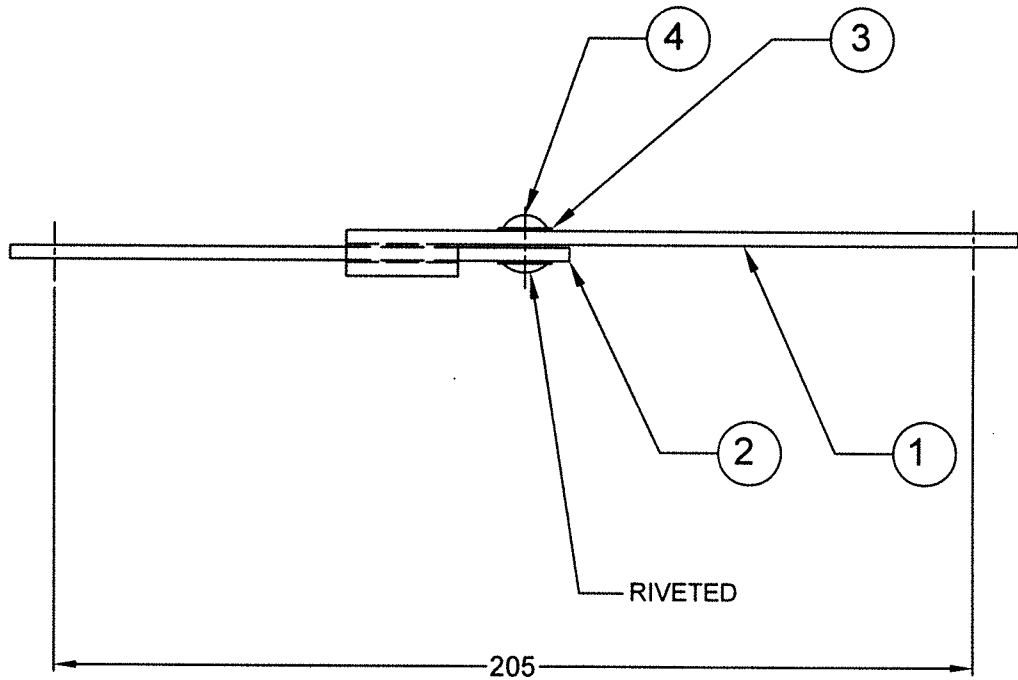


ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR



DGN	<i>Ashish</i>	NOM	HINGE ASSY (RIGHT)	
DRN		MTL	---	
CHD	<i>Ram</i>	TOL	INTEGER ONLY ±0.500 mm	UNLESS SPECIFIED
DIM	IN mm		ONE PLACE DECIMAL ±0.250 mm	
			TWO PLACE DECIMAL ±0.126 mm	
SCALE	NTS	FIN	POWDER COATED COLOUR AS APPROVED	
APP	<i>Ram</i>	DRG No:--	TD 2 N 82 B 00	SHEET 10F1
DATE	06-01-2016			

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 N 82 C 01	HINGE PLATE (LEFT)	1	
2.	TD 2 N 82 B 02	LINK PLATE	1	
3.	BS 44	PUNCHED WASHER A6.6,IS:2016, MS	1	
4.	BU 58	FLAT HEAD RIVET 5X12mm, IS:2155, MS	1	



NOTE:--

1.REMOVE SHARP EDGES & CORNERS.

SNNo.	REGION	REVISION	DATE	SIGN
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REVISIONS



ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR



DGN	<i>ashish</i>	NOM	HINGE ASSY (LEFT)	
DRN	<i>Ran</i>	MTL	_____	
CHD	<i>Ran</i>	TOL	INTEGER ONLY	±0.500 mm
DIM	IN mm		ONE PLACE DECIMAL	±0.250 mm
			TWO PLACE DECIMAL	±0.126 mm
SCALE	NTS	FIN	POWDER COATED COLOUR AS APPROVED	
APP	<i>Ran</i>	DRG No:--	TD 2 N 82 C 00	SHEET 10F1
DATE	06-01-2016			

TD2N85000

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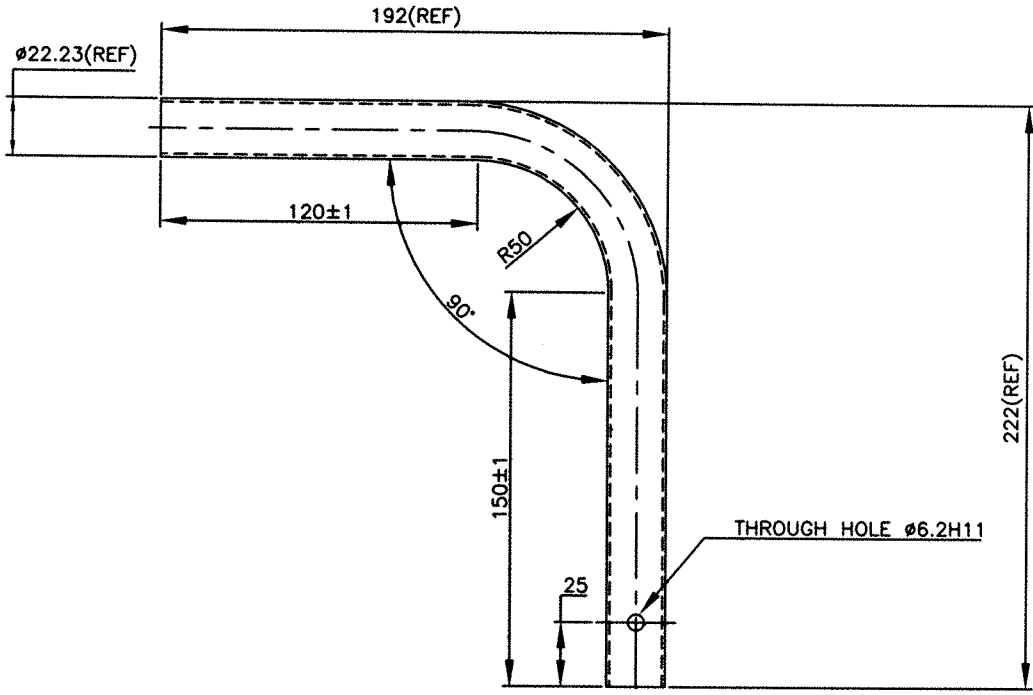
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B

B

A

A



NOTE:-
1.REMOVE SHARP EDGES & CORNERS.

1.	—	DRG REDESIGN & REDRAWN	27.7.2004
SNo.	REGION	REVISION	DATE SIGN

REVISIONS

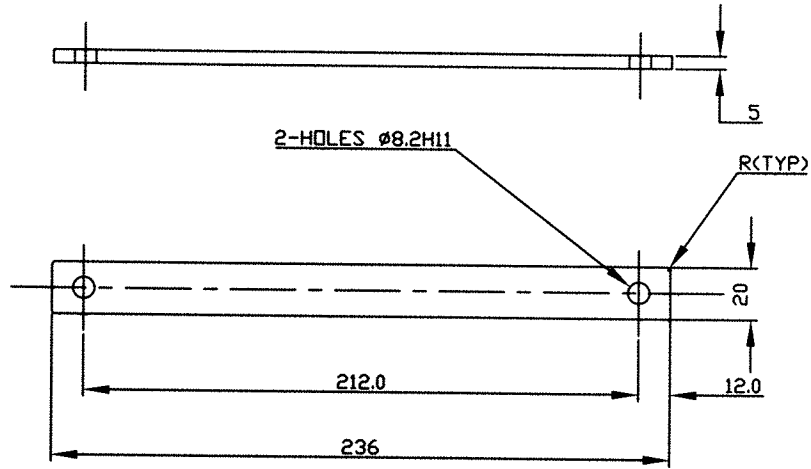
ARTIFICIAL LIMBS
 MANUFACTURING CORPORATION
 OF INDIA
 KANPUR

DGN	<i>Pran</i>	NOM	HANDLE TUBE
DRN	<i>Chudh</i>	MTL	STEEL TUBE ERW C1 OD22.23mm THICK1.6mm ANNEALED IS:2039 (AF 13)
CHD	<i>Pran</i>	TOL	INTEGER ONLY ±0.500 mm UNLESS SPECIFIED ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.126 mm
DIM	IN mm	FIN	Ni.Cr. PLATED Gd 2,IS:1068

01 K 6 301

SCALE	NTS	APP	DRG No:-TD 2 N 85 0 01	SHEET 10F1
DATE	08.10.99			

5 4



NOTE:-

1.REMOVE SHARP EDGES & CORNERS.

2.	-	DRG REDESIGN & REDRAWN	27.7.12	<i>[Signature]</i>
SN0.	REGION	REVISION	DATE	SIGN

REVISIONS

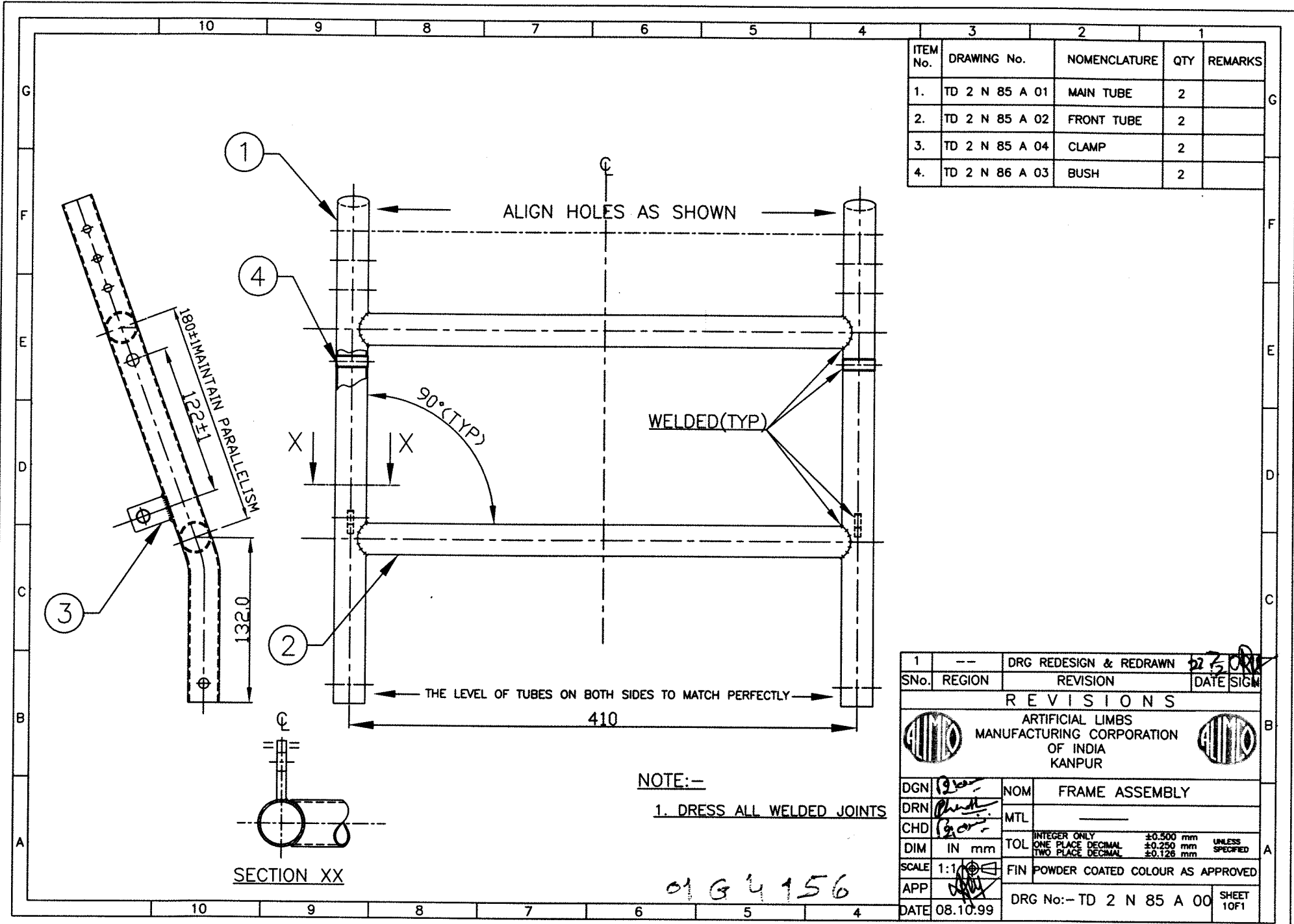


ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR



DGN	<i>[Signature]</i>	NOM	LINK STRIP	
DRN	<i>[Signature]</i>	MTL	FLAT MS. 5X20mm OR 3/16" X 3/4" ST42-S AS PER IS:226(AD 26)	
CHD	<i>[Signature]</i>	TOL	INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.126 mm	UNLESS SPECIFIED
DIM	IN mm	FIN		
SCALE	NTS			
APP	<i>[Signature]</i>			
DATE	08.10.99		DRG No:-TD 2 N 85 0 02	SHEET 10F1

01 K 6 302



ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 N 85 A 01	MAIN TUBE	2	
2.	TD 2 N 85 A 02	FRONT TUBE	2	
3.	TD 2 N 85 A 04	CLAMP	2	
4.	TD 2 N 86 A 03	BUSH	2	

1	--	DRG REDESIGN & REDRAWN	02/08/99
SNo.	REGION	REVISION	DATE SIGN

REVISIONS

ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR

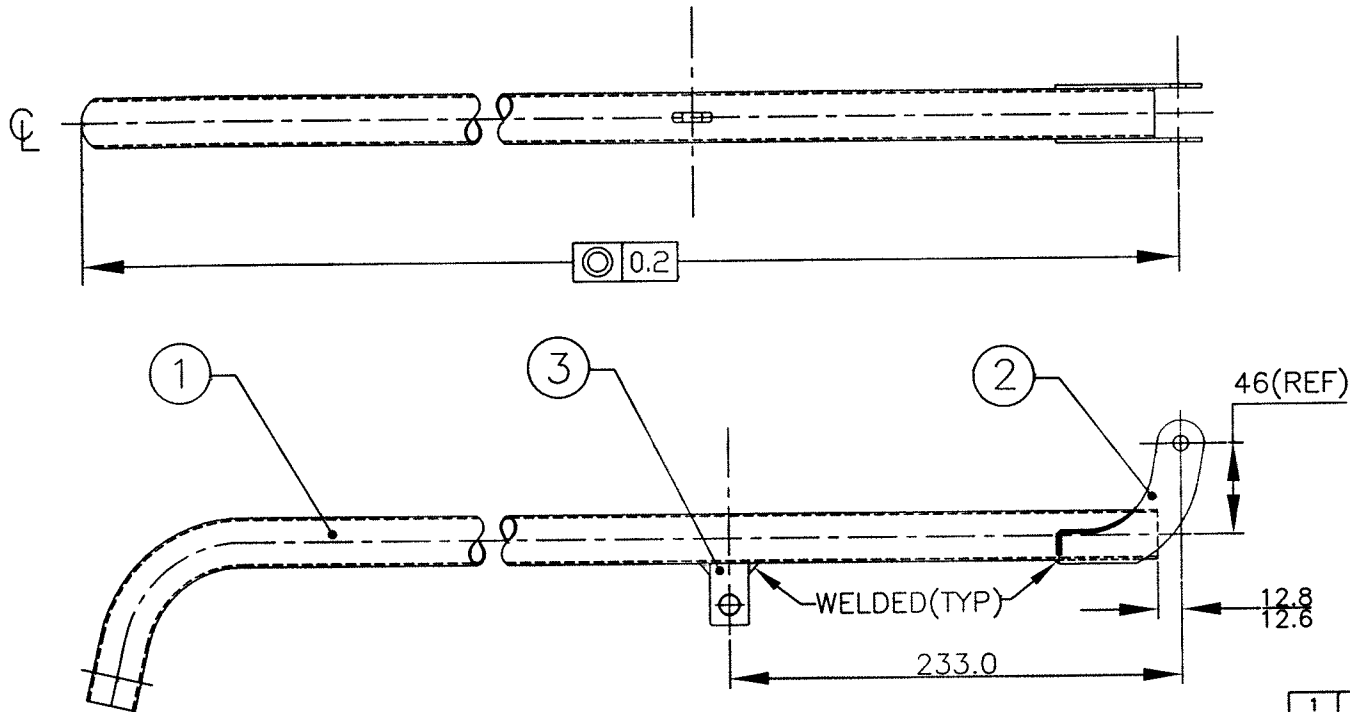
DGN	DRN	CHD	DIM	SCALE	APP	DATE	NOM	MTL	TOL	FIN	DRG No:-- TD 2 N 85 A 00	SHEET 10F1
			IN mm	1:1		08.10.99	FRAME ASSEMBLY		INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.128 mm	POWDER COATED COLOUR AS APPROVED		

NOTE:--
1. DRESS ALL WELDED JOINTS

0184156

SECTION XX

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 N 85 B 01	SIDE TUBE	1	
2.	TD 2 N 85 B 02	CLAMP	1	
3.	TD 2 N 85 A 04	CLAMP	1	



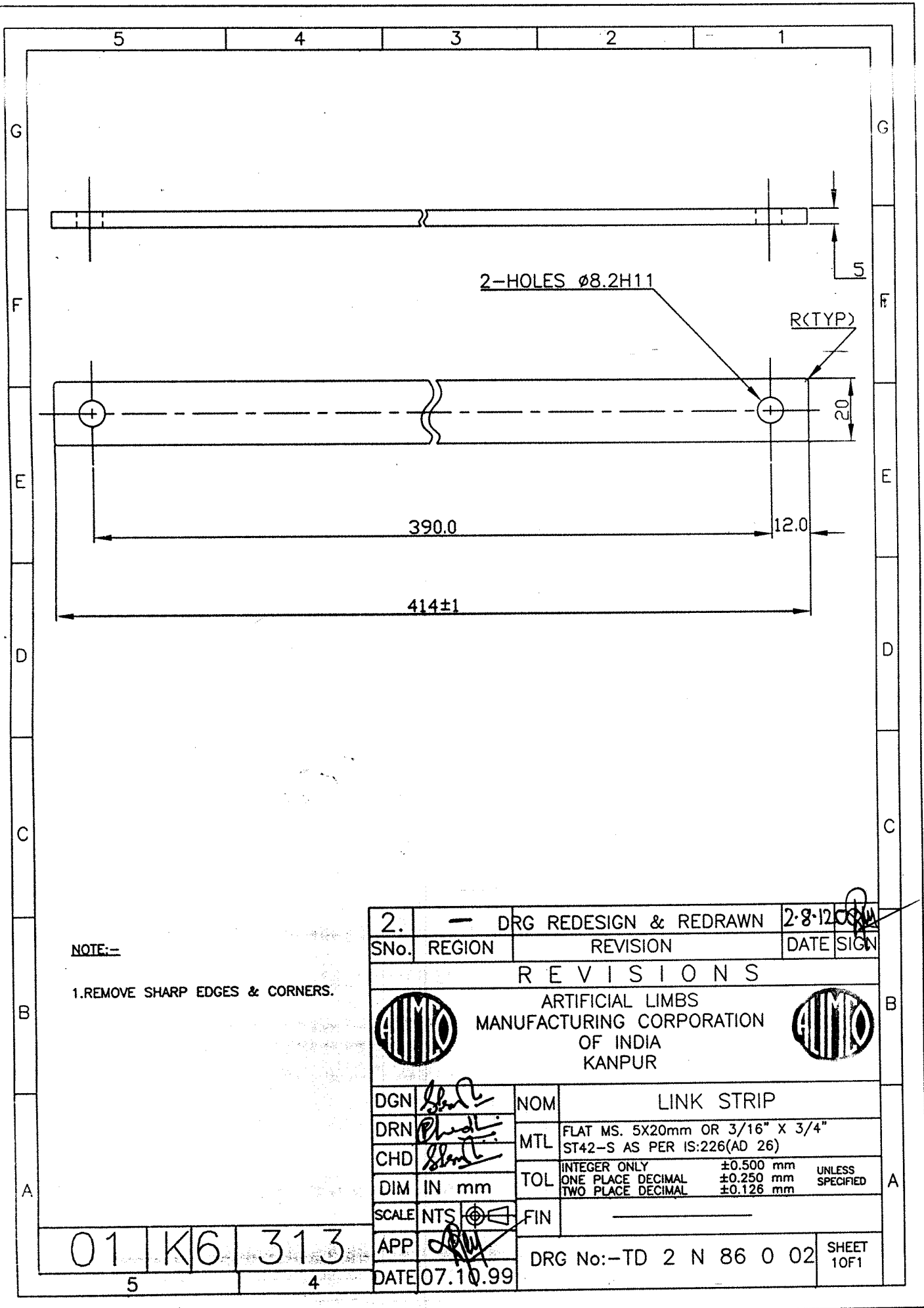
NOTE:-

1. DRESS ALL WELDED JOINTS

1	--	DRG REDESIGN & REDRAWN	27.07.12	
SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
		ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR		
DGN	<i>Chadli</i>	NOM	SIDE TUBE ASSEMBLY	
DRN	<i>Chadli</i>	MTL		
CHD	<i>Chadli</i>	TOL	INTEGER ONLY ±0.500 mm UNLESS SPECIFIED ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.126 mm	
DIM	IN mm	FIN		
SCALE	NTS			
APP	<i>Chadli</i>			
DATE	08.09.99		DRG No:-TD 2 N 85 B 00	SHEET 10F1

01 G4 076

TD2N86000



NOTE:-

1.REMOVE SHARP EDGES & CORNERS.

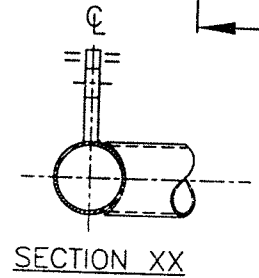
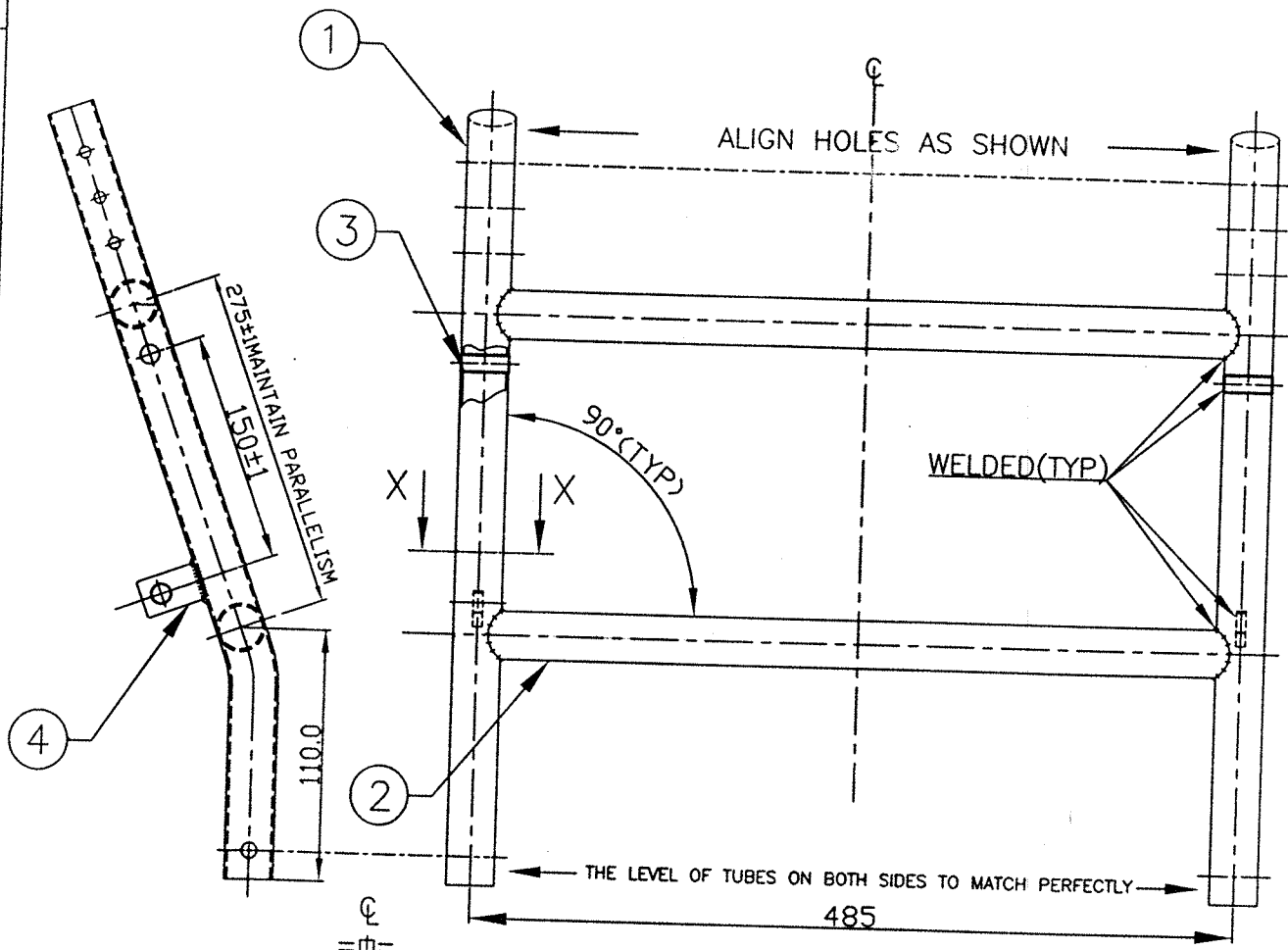
2.	-	DRG REDESIGN & REDRAWN	2-8-12	
SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				
		ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR		
DGN		NOM	LINK STRIP	
DRN		MTL	FLAT MS. 5X20mm OR 3/16" X 3/4" ST42-S AS PER IS:226(AD 26)	
CHD		TOL	INTEGER ONLY	±0.500 mm
DIM	IN mm		ONE PLACE DECIMAL	±0.250 mm
			TWO PLACE DECIMAL	±0.126 mm
SCALE	NTS	FIN		
APP		DRG No:-TD 2 N 86 0 02	SHEET 10F1	
DATE	07.10.99			

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4

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 N 86 A 01	MAIN TUBE	2	
2.	TD 2 N 86 A 02	FRONT TUBE	2	
3.	TD 2 N 86 A 03	BUSH	2	
4.	TD 2 N 85 A 04	CLAMP	2	

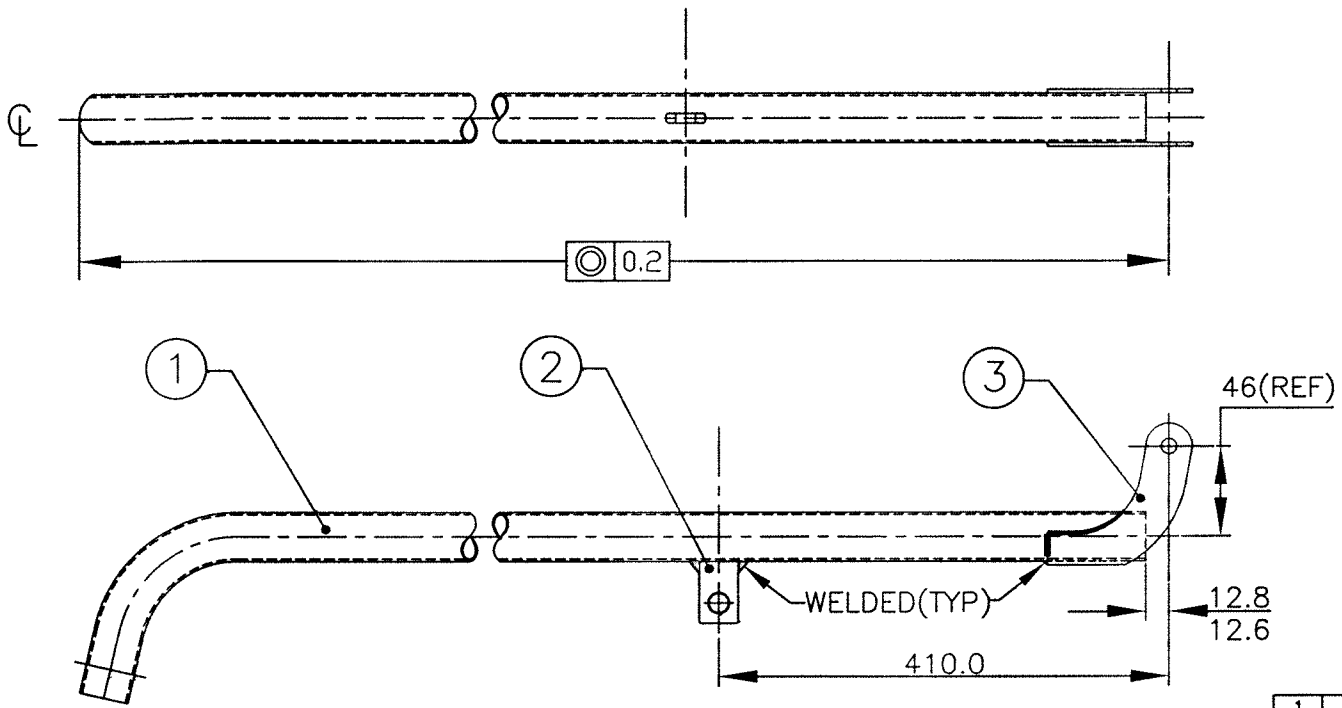


NOTE:-
1. DRESS ALL WELDED JOINTS

01 G4 158



1	---	DRG REDESIGN & REDRAWN	2-8-12
SNo.	REGION	REVISION	DATE SIGN
REVISIONS			
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR			
DGN	DRN	CHD	NOM
			FRAME ASSEMBLY
DIM	SCALE	APP	FIN
IN mm	NTS		POWDER COATED COLOUR AS APPROVED
DATE	07.10.99	DRG No.:- TD 2 N 86 A 00	SHEET 10F1

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 N 86 B 01	SIDE TUBE	1	
2.	TD 2 N 85 A 04	CLAMP	1	
3.	TD 2 N 85 B 02	CLAMP	1	



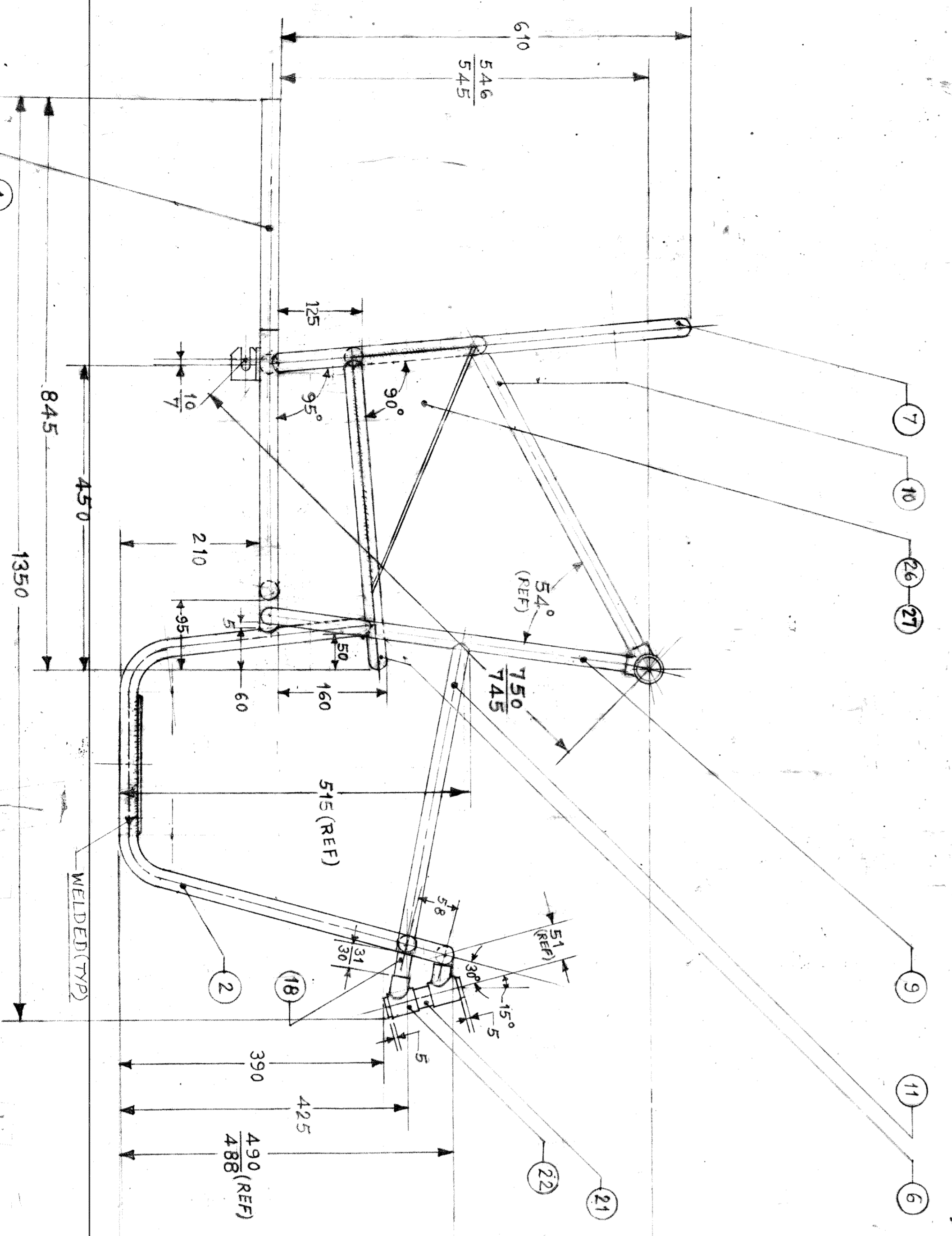
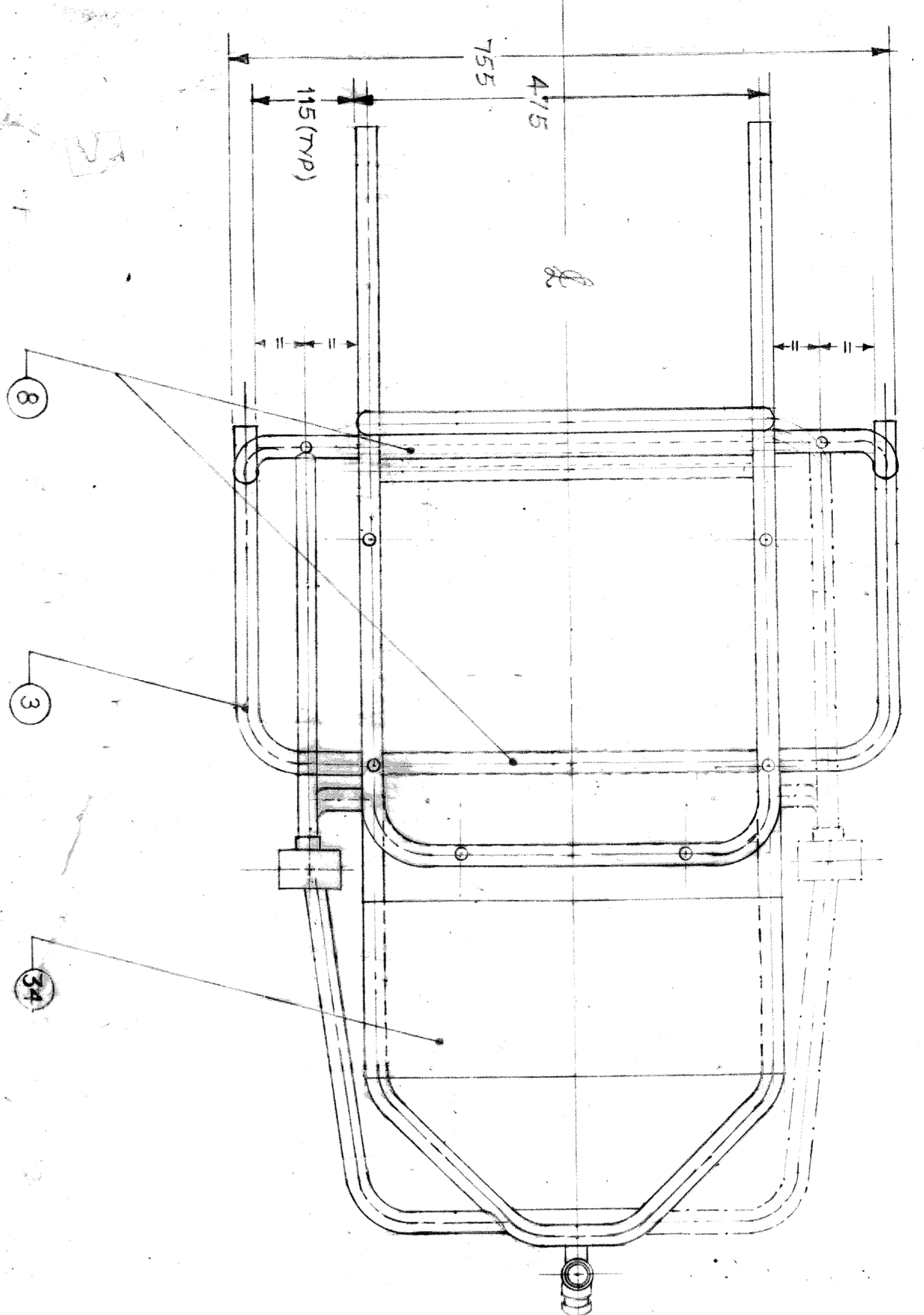
NOTE:--
1. DRESS ALL WELDED JOINTS

01 G4 078

1	---	DRG REDESIGN & REDRAWN	02.8.12	<i>[Signature]</i>
SNo.	REGION	REVISION	DATE	SIGN
R E V I S I O N S				
 ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR 				
DGN	<i>[Signature]</i>	NOM	SIDE TUBE ASSEMBLY	
DRN	<i>[Signature]</i>	MTL		
CHD	<i>[Signature]</i>	TOL	<small>INTEGRAL ONLY ±0.500 mm UNLESS SPECIFIED</small> <small>ONE PLACE DECIMAL ±0.250 mm</small> <small>TWO PLACE DECIMAL ±0.125 mm</small>	
DIM	IN mm	FIN	POWDER COATED COLOUR AS APPROVED	
SCALE	NYS	APP		
DATE	07.10.99	DRG No:--TD 2 N 86 B 00	SHEET 10F1	

TD2C95000

NOTE:—
 1. ALL WELDED JOINTS TO BE DRESSED & FINISHED SMOOTH.
 2. _____
 3. _____



FOR RIGHT HAND DRIVE ONLY (TD 2 C 95 A 00)
 OR
 FOR LEFT HAND DRIVE ONLY (TD 2 C 96 A 00)

4-HOLES Ø52 H¹¹ (THROUGH)
 FOR MUDGUARD FITTING

ITEM No.	DRG. No.	NOMENCLATURE	No OF	REMARKS
1	TD 2 C 95 A 01	REAR TUBE	2	
2	TD 2 C 95 A 02	FOOT REST TUBE	1	
3	TD 2 C 95 A 03	SIDE SUPPORT TUBE	2	
4	TD 2 C 95 A 04	LOOP SUPPORT TUBE (R)	1	
5	TD 2 C 95 A 05	LOOP SUPPORT TUBE (L)	1	
6	TD 2 C 95 A 06	SEAT TUBE	1	
7	TD 2 C 95 A 07	BACK REST TUBE	1	
8	TD 2 C 95 A 08	CROSS MEMBER	3	
9	TD 2 C 95 A 09	B.SHELL SUPPORT TUBE	1	
10	TD 2 C 95 A 10	VERTICAL SUPPORT	1	
11	TD 2 C 95 A 11	SIDE FRAME SUPPORT TUBE	1	DELETED
12	TD 2 C 95 A 12	SEAT	1	DELETED
13	TD 2 C 95 A 13	BACK REST	1	DELETED
14	TD 2 C 95 A 14	FOOT REST	1	DELETED
15	TD 2 C 95 A 15	SIDE GUARD (R)	1	DELETED
16	TD 2 C 95 A 16	SIDE GUARD (L)	1	DELETED
17	TD 2 A 60 A 04	FRONT SUPPORT TUBE	1	
18	TD 2 A 60 A 05	STIFFENER	1	
19	TD 2 C 98 A 13	BRACKET (RIGHT)	2	
20	TD 2 C 98 A 14	BRACKET (LEFT)	2	
21	LB 66	BICYCLE HEAD TUBE (FACE PIPE)	1	
22	LB 89	BICYCLE TOP LUG	2	
23	LB 99	BICYCLE BOTTOM BRACKET	1	
24	TD 2 C 95 A 17	FOOT REST SUPPORT ANGLE	1	DELETED
25	TD 2 A 60 A 08	FOOT REST	1	
26	TD 2 C 96 A 09	SIDE GUARD (RIGHT)	1	DELETED
27	TD 2 C 96 A 10	SIDE GUARD (LEFT)	1	DELETED
28	TD 2 C 95 A 18	EMBOSSED FOOT REST	1	DELETED
29	TD 2 C 95 A 19	FOOT REST SUPPORT TUBE	1	DELETED
30	TD 2 C 95 0 03	FOOT REST	1	
31	BA 08	HEX NUT M5, IS: 1363	1	
32	BF 77	SLOTTED CSK HEAD SCREW BMS X 40, IS: 1365 - 6-6	1	DELETED
33	BS 28	PUNCHED WASHER B 5-5 15:2016 MS	1	DELETED
34	TD 2 C 95 A 20	FOOT REST	1	

9	ITEM NO. 26, 27 REINTRODUCED.	12	
	ITEM NO. 34 ADDED. ITEM NO. 19, 24, 25, 26, 27, 30 TO 33 & NOTE NO. 2, 3 DELETED.	11	
8	*5 HOLES ADDED FOR USE OF SIDE GUARD'S AT ITEM NO. 26 & 27.	9-4-10	
7	ITEM NO. 26 & 27 BELLETED.		
6	ITEM NO. 26 & 27 DELETED.	24-8-9	
5	ITEM NO. 26 & 27 ADDED.	24-3-10	
4	4-HOLES Ø52 H ¹¹ (THROUGH) ADDED TO ITEM NO. 14 & 24.	22-8-09	
3	ITEM NO. 12, 13 & DIM. 10 DELETED.	18-5-09	
2	POSITION OF ITEM NO. 3 & 10 CHANGED. ITEM NO. 2, 4 ADDED. DRG. NO. WAS TD 2 C 95 A 00 & TD 2 C 96 A 00	14-2-08	
1	REVISION	DATE (DD)	

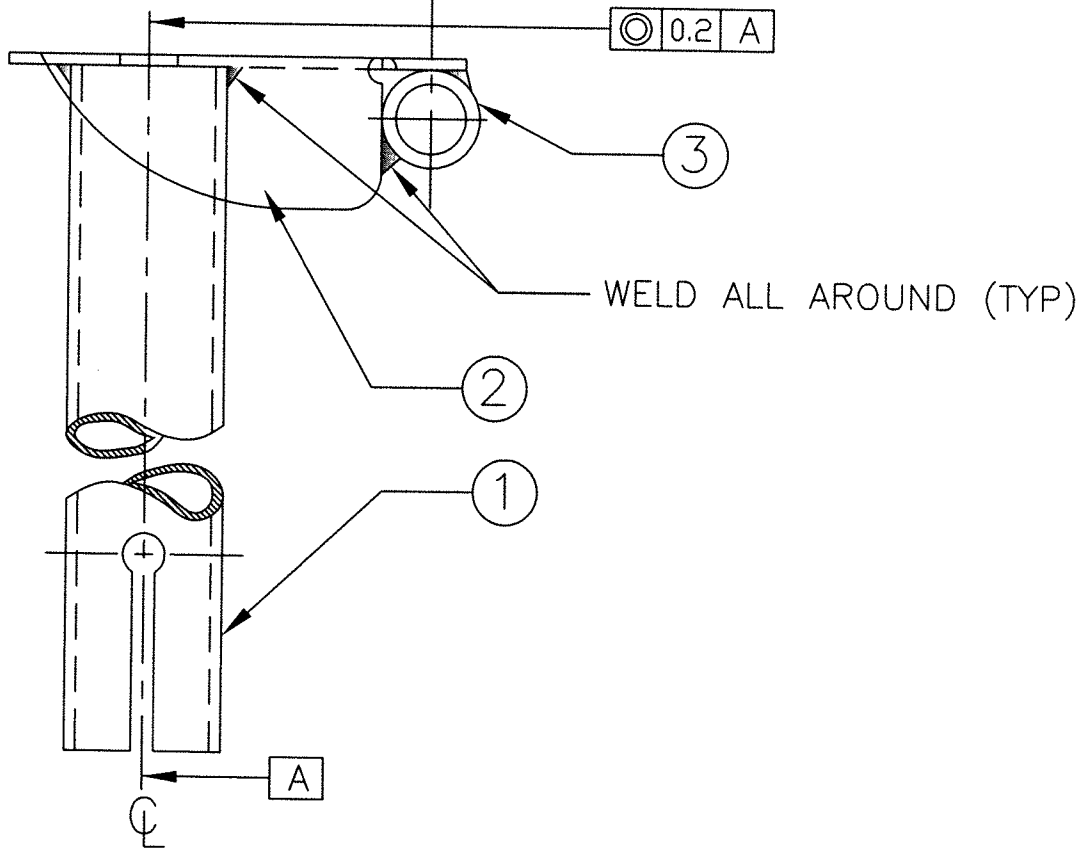
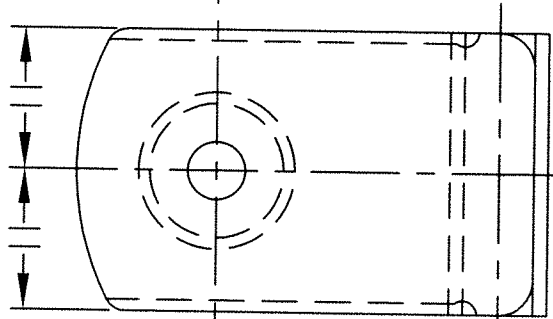
ARTIFICIAL LIMBS
 MANUFACTURING CORPN
 OF INDIA
 MANDUR

FRAME ASSY (R/L)

FINISH: RED OXIDE PRIMER PAINT AND FINISH AIR DRYING TYPE
 DATE: 18-5-99
 SHEET: 1 OF 1

01A 0050

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 C 98 A B1	CENTRE TUBE	1	
2.	TD 2 C 98 A B2	BRACKET	1	
3.	TD 2 C 98 A B3	BUSH	1	



FIN:—

ZINC PLATED THK 6 TO 8 MICRONS
OR
POWDER COATED COLOUR AS APPD

NOTE:—

1. DRESS WELDED JOINTS

4	—	DRAWING REDRAWN	18 ³	<i>[Signature]</i>
SNo.	REGION	REVISION	DATE	SIGN

REVISIONS



ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR



DGN	<i>[Signature]</i>	NOM	CENTRE TUBE ASSEMBLY	
DRN	<i>[Signature]</i>	MTL	—	
CHD	<i>[Signature]</i>	TOL	INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.126 mm	UNLESS SPECIFIED
DIM	IN mm	FIN	INDICATED	
SCALE	NTS	APP	<i>[Signature]</i>	
DATE	26.12.1991	DRG No:—	TD 2 C 98 A B0	SHEET 10F1

01 K 8 224

5

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