ANNEXURE – A

SPECIFICATIONS

"Supply, Installation & Commissioning of Manual welding station with fume extractor system " (On Turnkey Basis)
Qty. – 01 Set

Consideration for Manual Welding station

S No.	Product		Welding Machines	Production /day 8hr shift	Approx welding length/ Job
1.	Tricycle Hand Propelled.	TD2C38000	14	200	6.9 meter
2.	Battery Operated Tricycle.	TD2A65000	14	100	6.3 meter
3.	Wheelchair	TD2C51000	4	100	3.2 meter
	Total		**32**		16 meter

A. Technical Specification for manual welding machine			**Quantity : 32**
POWER SOURCE			
SNo.	**Features**	**Specifications**	**Remarks**
1	Type	**Digital Micro-processer controlled IGBT based DIGITAL Inverter Controlled Synergic MIG/MAG/ MMAW Welding Power Source**	
2	Features	**Following features should be available as Standard features of the machine (with documentary support)** • Synergic Function • Self diagnostic mode • Error code display • Digitally signaled power source • 32 bit microprocessor • Pre program synergic lines/curves • Penetration control to control weld quality • Real time auto correction of weld parameters • Weld Data storage facility min 30 program or above • Digital arc control to minimize spatter • ARC ignition control for quality weld. **Additional Features** **Digital Controlled Front Panel & following feature should be available on front panel** • Adjustable welding current/Voltage/Crater Current/Voltage & Arc control Characteristics • Wire Feed rate meter/min • Step Welding mode selection facility • Welding wire dia. selection facility • Welding Voltage & current display • Synergic/ Independent mode • Arc Force Control • Protective function such as over temp./ over current/over voltage/under voltage/single phasing	

3	Rated Input voltage	415 V +/- 10% , 3 Ph, 50+/-2% Hz, through a3 wire system, 4th wire for earthing	
4	Power Factor	0.88 (minimum)	
5	Rated KVA	18 KVA Max	
6	Rated Output Current	30–400Amps or better	
7	Rated Output voltage	15–38 Volt or better	
8	Open circuit Voltage	65-75 or better	
9	Voltmeter &Ammeter	**Factory installed Digital indication ,current, Voltage & wire Speed on front panel with easy removal**	
10	Insulation class	H or Better	
11	Degree of Protection	IP23 (minimum)	
12	Machine cooling	Forced Air cooling	
13	Inbuilt Protection	**Inbuilt protection against** Thermal/ Overload /Short circuit and over/under voltage and spatter control facility / step less inductance facility.	
14	Power source model	Vendor to Specify	
15	Duty Cycle	Min. 400A @60% duty cycle& Min. 300 A @100% dutycycle (10 minute at 40^0C)	

WIRE FEEDER

SNo.	Features	Specifications	Remarks
1	**MAKE**	**SAME OEM AS POWER SOURCE**	
2	Applicable wire diameter	0.8, 1.0, 1.2mm(solid wires/cored wire)	
3	Wire Feed Speed	1.0 to 22.0mtr/min or above, It should capable to feed wire through cable length of 4mtr min	
4	Wire Feed motor	Tachometric wire feeder with servo print motor & with wire straightener	
5	Drive mechanism	Min. 4 roll change over drive mechanism with Quick release	
6	Feed Rolls & Drive	Suitable for 0.8-1.2 mm solid/cored wires	
7	Inter connecting cables/hose sassy.	Min. 3 mts. Long power & control cables & gas Hose assy. with plug in & quick fix end conn to Connect the power source and the wire feeder	
8	Wire Feeder Model	To specify the model & weight	
9	Weight per roll	10 kg or Above	

WELDING TORCH			
SNo.	**Features**	**Specifications**	**Remarks**
1	Make	**SAME OEM AS POWER SOURCE**	
2	Type	Gas cooled	
3	Min. Current Cap.	350 Amps or above	
4	Wire Size/Solid	0.8 mm to 1.6 mm	
5	Torch Length	Not less than 3 meter	
6	Duty Cycle	350 Amps @60% duty cycle	

B. Fixtures

S.No.	**Description**	**Remarks**
1.	Fixture Type Should Be Manual Welding Fixture.	
2.	All the Mylars/Resting Pads Should Be Made with Wear Resistant Anti Spatter Material. - EN31	
3.	Fixture Units Should Be Blackodised	
4.	Clamping should be Pneumatic.	
5.	All the Dowels & Fasteners Should Threaded Dowels Are Required.	
6.	Fixtures Should Be Made with The Provision of Easy Loading and Easy Unloading of Parts	
7.	Need Fixture Reference Pin Dia 16 Mm for Easy CMM Checking Purpose.	
8.	Clamping Pad/ Units Should Be Copper Coated Near to The Welding Area.	
9.	Provision to Be considered for Air Cleaning Point Near the Fixture	
10.	All Pneumatic Cylinder Movement Should Be Controlled with Mechanical Stopper.	
11.	Aluminum Sheet Should Be Provided on Top Side of Base Plate.(Keep Thickness 5mm)	
12.	Air Hoses and Joints- (Make – CKD/ SMC / JANATICS/ MURCURY)	
13.	Minimum Screw Mtg with M8 &Dowel With 8mm.	
14.	Hand Lever Manual Valve – (Make – Sanfield/ SMC / JANATICS/ MURCURY)	
15.	Control (FRL Unit) – (Make – CKD/ SMC / JANATICS/ MURCURY)	
16.	Pneumatic Cylinders for clamping to be supplied - (Make - SMC / SMC/ JANATICS/ MURCURY)	
17.	Spatter Proof Hoses/ Condute Covering Provide, Wherever Tubing Not Possible.	
18.	Proper Labeling of Cylinder, Valves, to Be Provided.	
19.	Fixture Base Should Be Made with Min 20mm thickness.	
20.	Any MS Base Plate in The Fixture Should Be Made With Min 20mm thickness.	
21.	Provide Holes for Eye bolts for Fixture Handling.	
22.	Fixtures drawing and 3 D model to be provided by supplier	
23.	Provision should be made in such a way that welding and loading/unloading can be carried out concurrently	

Note : The basic welding machine in scope of bidder as per Serial number A on page 1 consists of :

a) Power source
b) Wire Feeder
c) Mig Welding Torch
d) Set of Inter Connection Cables, Gas Hose
e) Gas Regulator & Flowmeter

Additional Accessories & Consumables required with each set of machine:-

S.no.	Description	Qty reqd. with each m/c	Total Quantity with 32 sets
1	CONTACTTIP 0.8mm/ 1.0mm	10NOS	320NOS.
2	GAS NOZZLE	5NOS	160NOS
3	TIP ADOPTER	5NOS	160NOS
4	NOZZLE HOLDER	5NOS	160NOS
5	DIFFUSER	10NOS	320NOS
6	TORCH HEAD	1NOS	32NOS
7	TORCH LINER	5NOS	160NOS
8	DRIVE ROLL 0.8mm/ 1.0mm	2NOS	64NOS
9	MIG TORCH 3MTR LONG	1NO	32NOS
10	WIRE FEERDER MOTOR	-	5NOS
11	**Auto Darkening Helmet -** Switching time to dark 0.1ms or less, Arc sensors - 4 or above, Exchangeable Battery	1	32
12	Gas flow meter and regulator in case of cylinder supplies	1	32
13	Safety goggles	1	32
14	Hand Gloves (pair)	2	64
15	Chipping hammer	1	32
16	Wire Spool 0.8 mm/1.0 mm (10kg or above)	1	32

C. Technical Specification for Welding Fume Extraction System with Enclosure Quantity : 32		
1	**PURPOSE FOR WHICH REQUIRED AND CAPABILITY**	**Remarks**
1.1	**CAPABILITY**: The Fume extraction system shall be capable of Extracting fumes generated during welding. It must be designed for the extraction of hazardous substances, which are produced by different welding works. It must be observe that there is no sparks (e.g. During grinding) into the filter unit. **Only tested and approved filter units must be used in this fume extraction system,** during the extraction of welding smoke with carcinogenic particles (e.g. Stainless steel), according to the legal regulations. The mobile fume extraction system must be tested and approved for extraction of welding smoke which are generated during welding of steel (testing details must be provided by the supplier along with the system). The welding fume extraction system should be approved by reputed agencies (Test and approved certificate to be attached)	**Confirmed**
1.2	**PORTABILITY**	
a	The equipment should be mobile, mounted on a trolley fitted with swiveling type castor wheels.	**Confirmed**
b	Equipped with latest technology Fully Automatic filter cleaning mechanism i.e. Rotating Nozzle or better. **(No manual Cleaning at all)**	**Confirmed**
c	Equipped 360 degrees rotating exhaust hood with damper	**Confirmed**
2	**DESCRITION & SCOPE OF SUPPLY:-**	
2.1	**SCOPE OF SUPPLY:** The specification covers supply, installation and commissioning of Fume Extraction System, as per the Technical Parameters described include all essential accessories as detailed in the specification. Each system shall be accompanied by all necessary essential accessories whose cost shall be included in the basic price of the machine	**Confirmed**
3.0	Enclosure for welding station (32nos)	**11' x 10' x 6' (approx) Vendor to design as per requirement**
4.0	**MACHINE RELATED DRAWINGS**	**Confirmed**

Technical Specification for Welding Fume Extraction System with Enclosure (Qty- 32 Sets)		
S No.	**Features**	**Description**
1	**MAKE**	**Reputed make (Vendor to Specify)**

2	**MODEL**	**Reputed make (Vendor to Specify)**
3	**Fan & Motor**	Siemens/ Lammer/ Havells/ ABB
i.	Main Voltage	415 ± 10% VAC, 3 Phase, 50 ± 2% Hz,
ii.	Motor Capacity	Minimum 1.5 KW (Supplier to specify)
iii.	Net extraction capacity at the hood	Minimum 1000 m^3/hr
iv.	Un restricted air flow	Minimum 3000 m^3/hr
v.	Fan type	Radial/Centrifugal (Supplier to specify)
vi.	Fan blades and casing	To be sturdy and resistant to heat.
vii.	**Noise level**	**Not to exceeded 70 db (A) at 1mtr distance vendor has to prove out the noise level**
viii.	Intake Diameter (mm)	Minimum 150mm (Supplier to specify)
4	**Filter**	
i.	Filter purpose	Suitable for filtering out all type welding fumes (MIG/TIG/ARC). (Provide the Filter details along with documentary evidence)
ii.	Type of filter	Cartridge , M Class approved
iii.	Filter Stages	One
iv.	Filter Material	**ePTFE-membrane –Teflon Coated**
v.	Filter Type	**Automatic / Self Cleanable (no manual cleaning required).**
vi.	Filter efficiency for 0.4 micron particle	**>99.95 %** (Certification required)
vii.	Surface area	10 m^2 (min)
viii.	Protection Class (motor)	**IP55 Vendor to submit support docs.**
ix.	Clog indication	Visual indication to be provided to show filter clogging /saturation for replacement
x.	Automatic Start Stop Capability	Automatic Start- Stop option should be also present
5	**Extraction Arm**	
i.	**Type**	flexible extraction arm and Flame Retardant /Spark resistant polyester hose with PVC coating [360° rotation]
ii.	**Arm Mechanism**	Vendor to define
iii.	Length	3 mtrs (minimum)
iv.	Diameter	150 mm (minimum). Vendor to specify the diameter.
v.	Material	Suction Hood / Nozzle — to be suitable for withstanding temperatures of 100 to 400°C Arm— to be suitable for withstanding high temperatures of welding fumes and gases
vi.	Handle	Suitable handle should be provided on suction hood/ Nozzle
vii.	Supports	Supports for the arm should be internal i.e. to be provided inside the arm, no external support required
viii.	Flexibility	Extraction/suction hood to have 360° positioning flexibility on its own axis
6	**General :**	
i.	**Enclosure**	Enclosure of the Fan, Motor and Filter to

		be compact and resistant to rusting.
ii.	**Motors**	IE3 motor should be given
iii.	**Consumables**	List of all consumables & spares required for operation and maintenance to be provided by the supplier with unit prices for future processing (Spare & consumables are not in scope of supply). Provide the Indian source of spares supplier (at least three.)
iv.	**Service back up**	The after sales service has to be indicated
7	**Welding Booth Enclosure**	
i.	**Wall of welding encloser**	The wall should made up of block building type, Blocks should be made up of min. 1.2mm CRCA sheet
ii.	**Wall insulation type**	Partitioning walls should be Sound proof 60 mm thick, sound panels (inside & outside) finished with UV ray absorbed powder coating, Inside insulated with biodegradable rockwool. .
iii.	**Pillers**	Pillars should be made up of 60x60x4 mm square pipe. With powder coating.
iv.	**Booth structure**	Structure should be assembled with nut and bolt so that it could be easily dismantle. It should be rigid and stable
v.	**Booth front entry side**	Collapsible front, So that maximum opening can be achieved.
vi.	**Front welding protection strips**	DIN EN ISO 25980 and are flame retardant as per DIN 53 438 T2. The strips with 33% overlap.

Delivery Period:

The delivery period including installation & commissioning and training of Manual welding station with enclosure at the destination mentioned in Para 1 on page no. 02 of the tender documents will be 3 month from the date of placement of Purchase Order/work contract.

WARRANTY:

The entire plant inclusive of all system/accessories should be covered under comprehensive warranty for a period of 24 months from the date of commissioning including preventive maintenance.

Note:

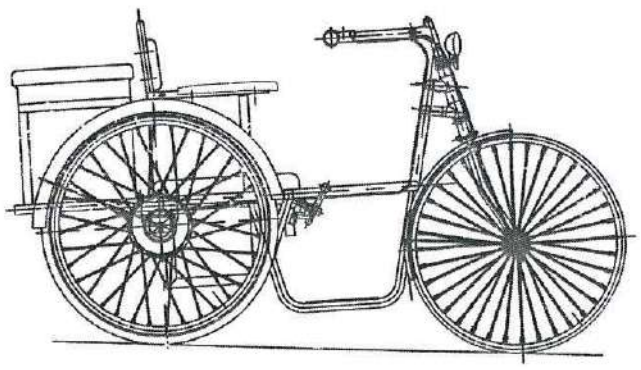
1. Bidder shall be responsible for complete supply, installation, commissioning & prove out of the machine including transportation, unloading and loading, placement, taxes, any other cost etc.
2. Prove out according to parameters mentioned in Technical specifications.
3. Mounting tools should be in supplier's scope
4. Machine/equipment/system/plant should be supplied with all accessories including all the tools and manual. Installation, Commissioning & Training will be provided to our any number

of staff for free of cost at ALIMCO site.

5. Machine/ equipment/ system/ plant foundation details and drawings with specifications to be provided by the tenderer and foundation. Vendor to arrange machine/ equipment/ system/ plant foundation work, if required, for the installation of machine/ equipment/ system/ plant.
6. Sufficient suitable cable, cable tray, Circuit breaker, panel, BBT tap box fittings etc. to connect the machine/ equipment/ system/ plant from power source is in Vendor's scope. If machine/equipment/system/plant requires separate electrical panel that will be in vendor's scope.
7. Bidders to furnish the latest Safety Standards Compliance of all relevant safety norms & regulation of Govt. of India of the system shall be in vendor scope.
8. Breakdown calls to be attended within 72 hrs. Physically or within 24 hrs. through tele-diagnostic.
9. Total power consumption (in kW) to be provided by the tenderer.
10. Supply to be done on Turnkey Basis. ALIMCO shall provide electrical supply point at one near to the place of installation.
11. Shielding Gas of 20 filled cylinders, pipeline to connect to welding torch of each Robotic Cell. Regulator, Valves, Pressure indicators, etc. shall be in Scope of Vendor. Another 20 filled cylinders shall be supplied by vendor as spare. Nearby source of Supply shall be indicated by the successful vendor.
12. Compressed air pipeline will be available in the work center (Air pressure available will be approx. 5.5 to 6 bar). All necessary fittings, air dryer, air booster as per machine requirements, from factory outlet point to welding station is in vendor scope.
13. Successful tenderer has to arrange unloading and material handling at site, by their own.
14. Welding quality standards should be specified by bidders, which shall be established during inspection at factory premises.
15. Bidder to provide OEM recommended list of spares and consumable for two years.
16. Dedicated Earthing pit alongwith Earthing strip/wire for this machine/ equipment/ system/ plant shall be in vendor's scope.
17. All related civil work in vendor scope.
18. Vendor should undertake that they will execute comprehensive AMC including spares and labour 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 2%,3% & 4% of basic value of the machine/plant/System during 4th& 5th year respectively from the date of successful installation & commissioning of the machine/plant/item/equipment"

Product Code	TD2A65000	TD2C38000
Product Description	BATTERY OPERATED MOTORISED TRICYCLE	TRICYCLE HAND PROPELLED
SL. No.	Items code ASSY/Components	Items code ASSY/Components
1	TD2A65C00	TD2C38A00
2	TD2A65D00	TD2C38AA0
3	TD2A65P00	TD2C38AA1
4	TD2A65U00	TD2C38AA2
5	TD2A65W00	TD2C38AA3
6	TD2A65X00	TD2C38AA4
7	TD2A65UA0	TD2C38AA5
9	TD2A65UB0	TD2C38AA6
10	TD2A65UC0	TD2C38AA7
11	TD2A65UD0	TD2C38AA8
12	TD2A65A03	TD2C38AA9
13	TD2A60AA2	TD2C38A02
14	TD2A65005	TD2C38A03
15	TD2A65006	TD2C38A04
16	TD2A65V01	TD2C38A05
17	TD2A65UJ0	TD2C38A06
18	TD2A65UK0	TD2C38A07
19	TD2A65012	TD2C38A08
20	TD2A65A01	TD2C38A09
21	TD2A60AA4	TD2C38A10
22	TD2A60AA5	TD2C38A11
23	TD2C95A20	TD2C38A12
24	LB86	TD2C38A13
25	LB89	TD2C38A14
26	TD2A65UB1	TD2C38A15
27	TD2A65UB2	TD2C38A16
28	TD2A65UB3	TD2C38A17
29	TD2A65UB4	TD2C98A13
30	TD2A65N02	TD2C98A14
31	TD2A65UB5	TD2C98A21
32	TD2A65UC1	TD2C98JB1
33	TD2A55B01	LB66
34	TD2A55B02	LB86
35	TD2A65UC2	LB89
36	TD2A65UD1	LB99
37	TD2A65UD2	TD2C38AD0
38	TD2A65T03	TD2C38AC2
39	TD2A65UJ1	TD2C98AB1
40	TD2A65UJ2	TD2C38AC0
41	TD2A65UK1	TD2C38AC1
42	TD2A65U01	TD2C38AC2
43	TD2A65C01	TD2C38AB0
44	TD2A65C02	TD2C38AB1
45	TD2A65C03	TD2C38AB2
46	TD2A55K02	TD2N86A03
47	TD2A65W01	
48	TD2A65W02	
49	TD2A65W03	
50	TD2A65W04	
51	TD2A65D01	
52	TD2N85B02	
53	TD2C98AB1	
54	TD2C65UF0	
55	TD2C65P01	
56	TD2C65P02	
57	TD2C65UB3	

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 A 65 C 00	HANDLE ASSY W	1	
2.	TD 2 A 65 D 00	CENTRE TUBE ASSY W	1	
3.	TD 2 A 65 J 00	REAR WHEEL ASSY (RIGHT)	1	
4.	TD 2 A 65 K 00	REAR WHEEL ASSY (LEFT)	1	
5.	TD 2 A 65 L 00	FRONT WHEEL ASSY	1	
6.	TD 2 A 65 P 00	BRAKET TUBE ASSY W	4	
7.	TD 2 A 65 S 00	SEAT ASSY	1	
8.	TD 2 A 65 U 00	CHASIS ASSY W	1	
9.	TD 2 A 65 V 00	BRAKE ASSY RIGHT	1	
10.	TD 2 A 65 0 01	LABEL	1	
11.	TD 2 A 65 0 07	SWITCH BOX	1	#
12.	TD 2 A 55 0 00	BACK REST ASSY	1	
13.	TD 2 C 98 A 23	LAMP BRACKET	1	
14.	NY 28 OR NY 30	RETROFIT KIT HUB DRIVE SYSTEMS, DC 24V,250W,36 HOLES FOR SPOKES BRAND UMS OR EQUI. OR RETROFIT KIT HUB DRIVE SYSTEMS, DC 24V, 250W,36 HOLES FOR SPOKES WITH DISC BRAKE, FORWARD & REVERSE DRIVE	1 KIT	
15.	LA 66	BICYCLE BOTTOM & TOP HEAD BALL RACE-1/8"(SET OF TWO)16G,BCP, IS:3973	SET OF2	
16.	LB 52	BICYCLE CROWN BALL RACER 1/8"	SET OF3	
17.	LB 56	BICYCLE TOP HEAD SCREWED RACER 1/8"	1	
18.	LB 57	BICYCLE TOP HEAD LOCK NUT	1	
19.	LB 97	HANDLE TIGHTNER ASSY	1	
20.	LC 42	PU FOAM ARM REST (FLAT)	2	
21.	LF 09	BICYCLE MUDGUARD HERO RANGER TYPE FOR 26"x 2.125", SIZE REAR WHEEL COLOUR - BLACK, GLOSSY FINISH WITH Ø 4mm STAY WIRE	2	
22.	LF 12	BICYCLE BRAKE WIRES (ø1.4x1460&660-L) WITH INNER OUTER CABLE(LADIES SET)	1 PAIR	
23.	LF 23	RACING FRONT BRAKE	2	*
24.	LF 66	BICYCLE HERO RANGER TYPE FRONT FORK FOR WHEEL SIZE 24"x2.125"	1	
25.	LF 67	BICYCLE MUDGUARD HERO RANGER TYPE FOR 24"x2.125", SIZE FRONT WHEEL,COLOUR- BLACK,GLOSSY FINISH WITH Ø4 mm STAY WIRE	1	
26.	LF 81	RANGER CYCLE FRAME LOCK-BRASS LIVER TUMBLER-EXTRA POWER WEIGHT-230gms	1	
27.	LF 83	ICE BOX 25Ltr.	1	
28.	LF 90	RECHARGABLE SMF BATTERY E-BIKE,12V, 33Ah, MAKE-AMPTEK,iPower OR EQUI.	2	
29.	LK 85	CORRUGATED PVC FLEXIBLE PIPE ø16mm COLOUR-GREY, Gd. MEDIUM	0.5 Mtr	
30.	LK 86	CORRUGATED PVC FLEXIBLE PIPE ø25mm COLOUR-GREY, Gd. MEDIUM	01 Mtr	
31.	LK 87	TIE BAR NYLON LENGTH 200mm, NATURAL COLOUR	25	
32.	BA 03	HEX NUT M10,IS:1363	8	Ni,Cr, Plated
33.	BA 08	HEX NUT M5,IS:1363	7	
34.	BB 23	HEX BOLT M10X75mm,IS:1363	8	
35.	BF 62	SLOTTED CSK HEAD SCREW A M5X16mm IS:1365-4.6	7	
36.	BP 88	WOOD SCREW NO.10x30 mm, IS:6760, STEEL	4	
37.	BQ 40	PAN HEAD SCREW AM5X25mm IS:6101-4.8	4	
38.	BQ 72	SLOTTED PAN HEAD TAPPING SCREW, IS:7173/ ISO:1481-ST4.2x13-C,	1+8	8 Nos. OPTIONAL
39.	BQ 81	SLOTTED PAN HEAD TAPPING SCREW, IS:7173-ISO:1481-ST4.2x38-C	1	
40.	BR 71	POP RIVIT ø4X6mm (AL)	2	
41.	BS 46	PUNCHED WASHER A11,IS:2016,MS	16	Ni,Cr, Plated
42.	BS 47	PUNCHED WASHER A5.5,IS:2016,MS	7	
43.	BS 55	SPRING WASHER 10 mm,IS:6735	8	
44.	HK 02	FREE BALL Ø1/8", IS:2898,STEEL	62	
45.	EH 43	FLUORESCENT (RADIUM) TAPE-1" WIDE WITH PAPER BACKING, RED COLOUR	1.0 Mtr	
46.	TD 2 A 65 W 00	CRUTCH CARRIER ASSY	1	W
47.	TD 2 A 65 X 00	CRUTCH CARRIER ASSY REAR	1	W
~~48~~	TD 2 A 65 U GO	SIDE HOLDER ASSY FOR ICE BOX	2	DELETED
~~49~~	TD 2 A 65 U HO	HOLDER ASSY FOR ICE BOX	2	DELETED
50.	TD 2 A 07 0 03	PLUG END 19mm	1	
51	LK 47	SMPS BATTERY CHARGER FOR 24V, 33Ah, SMF BATTERIES (12V,33Ah-2 Nos. CONNECTED IN SERIES)	1	
52.	TD 2 A 07 K 05	PAD FOOT REST	1	
53.	TD 2 A 65 0 08	WIRING COVER LOWER	1	OPTIONAL
54.	TD 2 A 65 0 09	WIRING COVER VERTICAL	1	
55.	TD 2 A 65 0 10	WIRING COVER HANDLE	1	
56.	EQ 48	USER MANUAL OF MOTORIZED TRICYCLE	1	
57.	TD 2 A 65 0 11	DISC HOLDING BRACKET	1	TO BE USED WITH NY 30 ONLY
58.	BB 09	HEX HEAD BOLT IS:1363(PART1)/ ISO-4016, M6x65-4.6 Zn PLATED	1	
59.	BA 82	NYLOCK NUT M6 IS:7002/ISO-7040 Zn, PLATED	1	
60.	BS 44	PUNCHED WASHER A6.6mm, IS:2016 MS Zn, PLATED	2	



NOTE:-

1. ITEM No 53,54 & 55 ARE OPTIONAL AND 8-Nos. OF BQ 72 ARE USED DURING WIRING COVER ASSY.
2. ITEM No. 57 TO 60 TO BE USED IN CASE OF NY 30 KIT ONLY.

* QUANTITY 1 IN CASE OF NY 30 IS USED.

NOT TO BE USED WHILE USING NY 30.

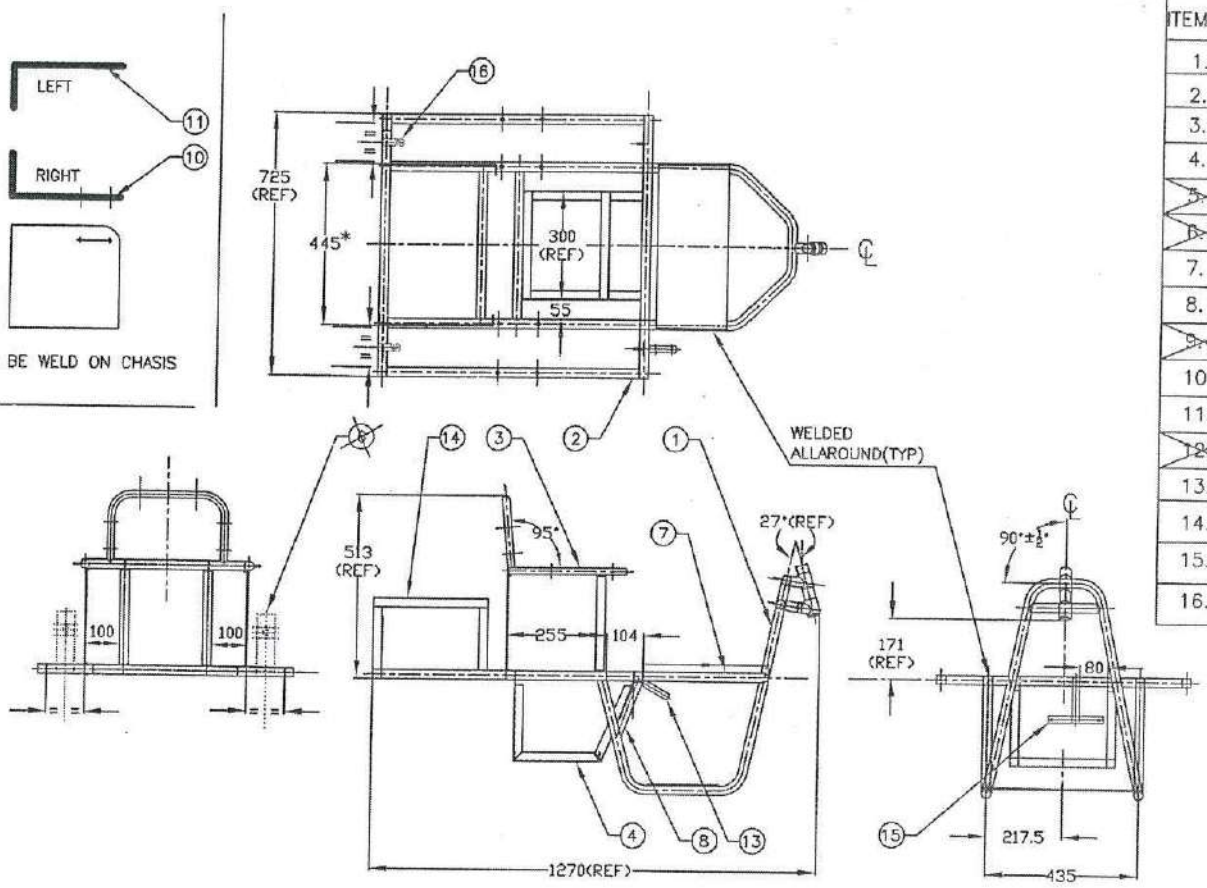
SNo.	REGION	REVISION	DATE	SIGN
19	——	*, # & ITEM No. 57 TO 60 ADDED	06.01.20	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	BATTERY OPERATED MOTORIZED TRICYCLE WITH BOX
DRN		MTL	——
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.125 mm; UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	——
APP	S.DD1	DRG No:- TD 2 A 65 0 00	REV 19
DATE	30.08.05		SHEET 1 OF 1

144



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	DELETED
~~6.~~	TD 2 A 65 U 02	BACK LIGHT CLAMP	2	DELETED
7.	TD 2 A 65 A 03	SIDE SUPPORT TUBE	1	
8.	TD 2 A 60 A A2	REINFORCING TUBE	2	
~~9.~~	TD 2 A 65 U E0	CARRIER ASSY	1	DELETED
10.	TD 2 A 65 0 05	PLATE GUARD RIGHT	1	
11.	TD 2 A 65 0 06	PLATE GUARD LEFT	1	
~~12.~~	TD 2 A 65 U F0	CRUTCH HOLDER ASSY	1	DELETED
13.	TD 2 A 65 V 01	BRAKE HOLDER TUBE	1	
14.	TD 2 A 65 U J0	SIDE HOLDER ASSY FOR ICE BOX	2	
15.	TD 2 A 65 U K0	PLATE ASSY FOR CONTROLLER	1	
16.	TD 2 A 65 0 12	INDICATOR HOLDER	2	

NOTE:-

1 DRESS ALL WELDED JOINTS & FINISH SMOOTH.
*2 DIMENSION SUITABLY ADJUST AS PER AVAILABLE ICE BOX.

S.No.	REGION	REVISION	DATE	SIGN
6.	—	ITEM No 16 ADDED & ITEM No 6 DELETED	28.12.19	
5.	—	ITEM No 14 & 15 ADDED & ITEM No 5 DELETED	28.08.18	
4.	D-5	90°±½° WAS 90°±0° & ITEM No. 9 DELETED	04.08.17	S.DD1

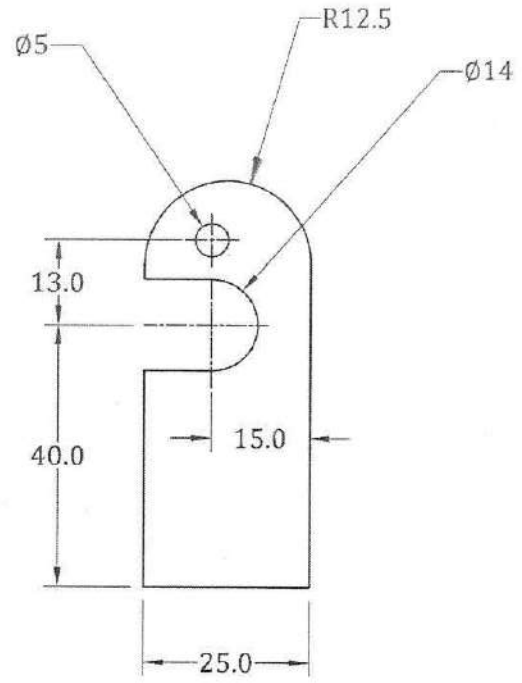
REVISIONS

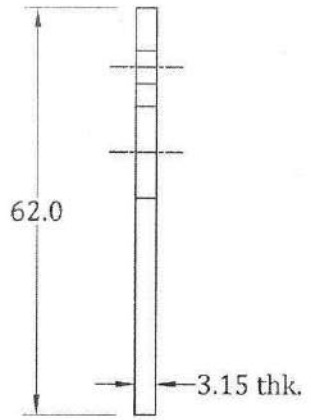
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	CHASIS ASSY
DRN		MTL	—
CHD		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	DRG No:-TD 2 A 65 U 00	REV 6; SHEET 1 OF 1
APP	S.DD1		
DATE	22.06.15		

13

142



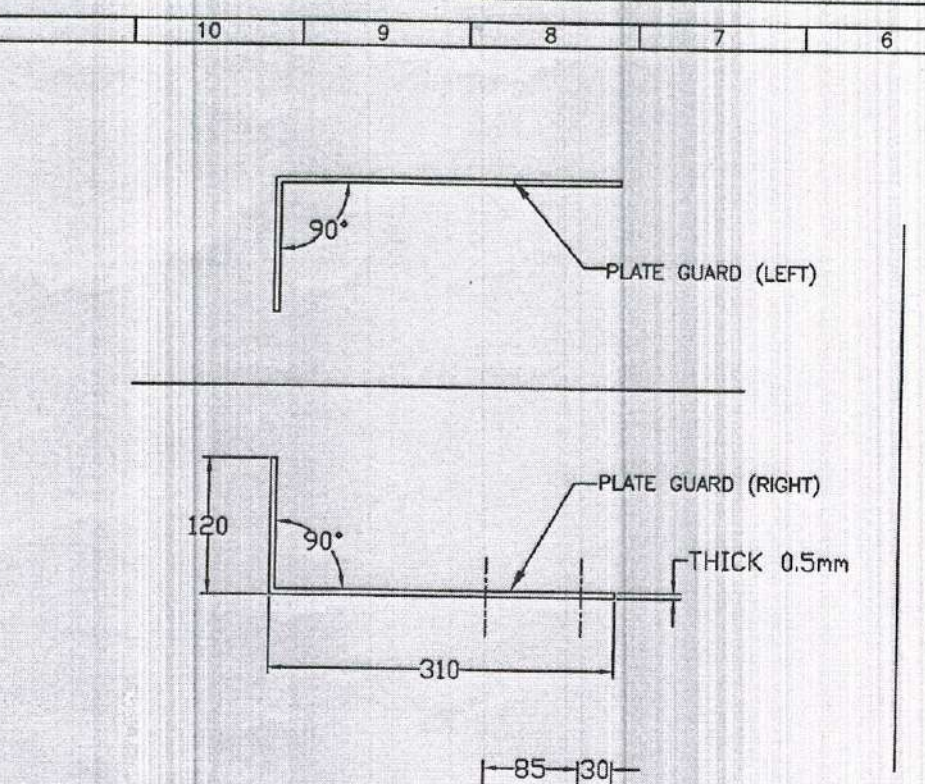


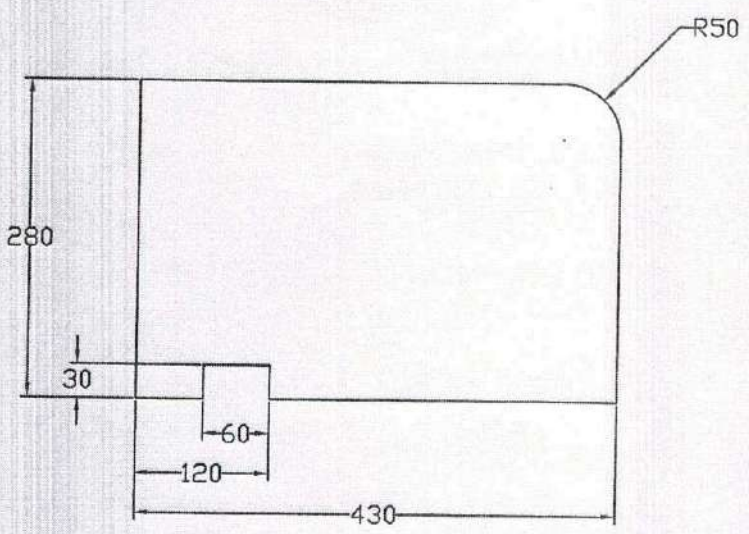
1.	-------	DRAWING REDESIGN & REDRAWN	22.06.20	
SNo.	REGION	REVISION	DATE	SIGN

R E V I S I O N S

ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR

DGN		NOM	INDICATOR HOLDER
DRN		MTL	SHEET M.S. GD'H.R.1' THICK 3.15 mm ANNEALED, AS PER IS:1079 (AA08)
CHD		HEAT TREATMENT	----------
DIM	IN mm	SURFACE TREATMENT	----------
SCALE	NTS		
APP		DRG No:-	TD 2 A 65 0 12
DATE	28.12.19		SHEET 1OF1





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NOTE :–

1.REMOVE SHARP EDGES & CORNERS.

SNo.	REGION	REVISION	DATE	SIGN
2	E – 4	CUT LENGTH 60x30 WAS 120x30mm	30.04.16	
1	D – 9	2 HOLES ø4.2H11 ADDED	29.08.16	

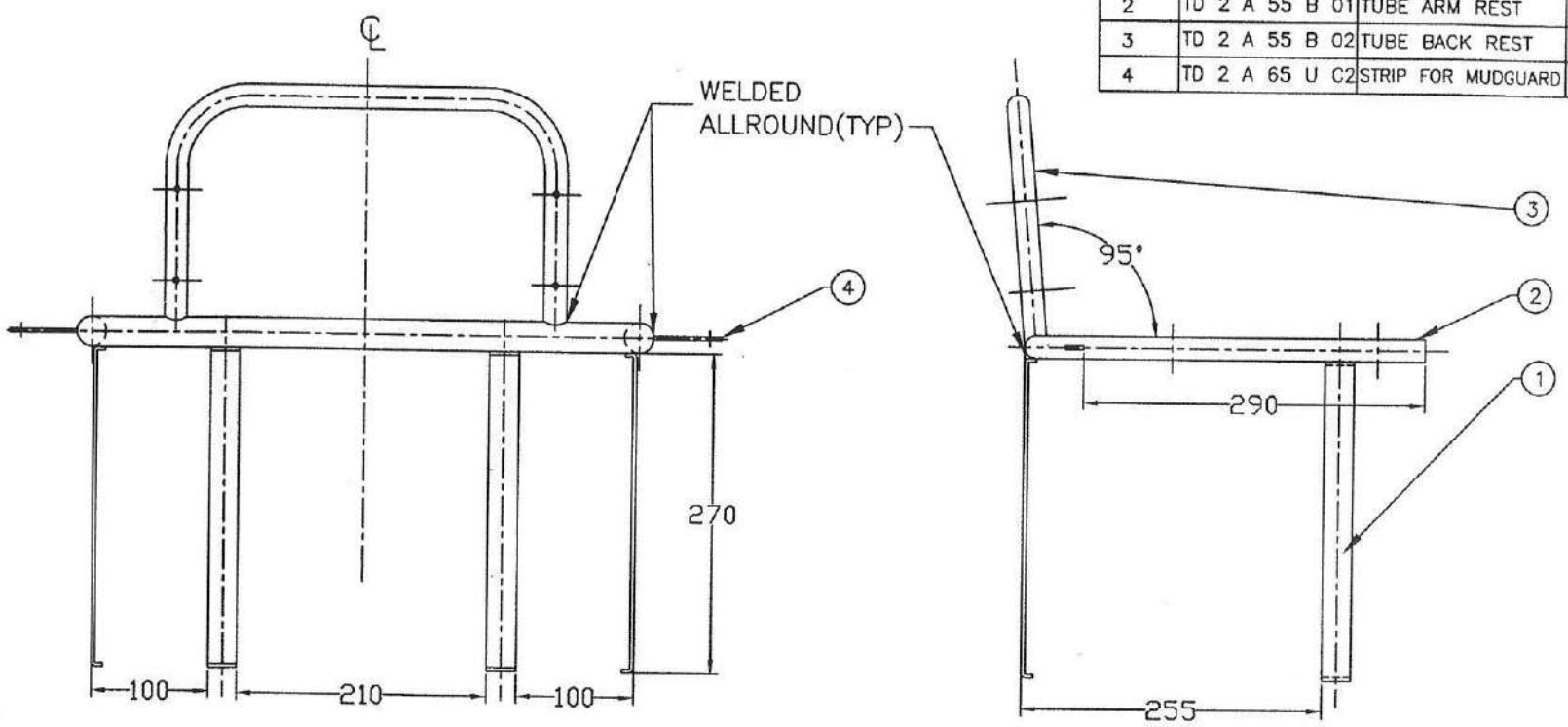
REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	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 ±0.126 mm; UNLESS SPECIFIED
DIM	IN mm	FIN	POWDER COATED COLOUR AS APPROVED
SCALE	NTS	DRG No:–	RIGHT- TD 2 A 65 0 05; LEFT - TD 2 A 65 0 06
APP	Sol/DD	REV	2
DATE	02.09.2014	SHEET	1 OF 1

(A1)

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1	TD 2 A 65 U C1	STRUT	4	
2	TD 2 A 55 B 01	TUBE ARM REST	1	
3	TD 2 A 55 B 02	TUBE BACK REST	1	
4	TD 2 A 65 U C2	STRIP FOR MUDGUARD	2	



NOTE:-

1.DRESS ALL WELDED JOINTS & FINISH SMOOTH.

SNo.	REGION	REVISION	DATE	SIGN
1.	—	ITEM No. 4 ADDED	29.06.16	

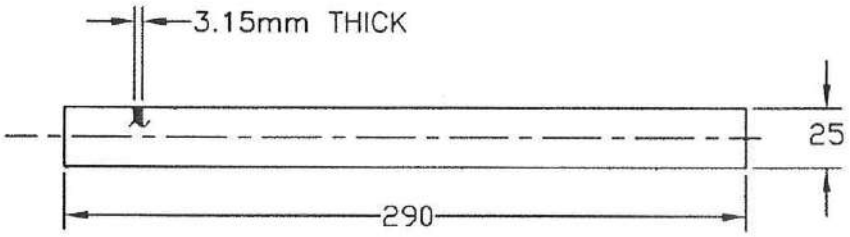
REVISIONS

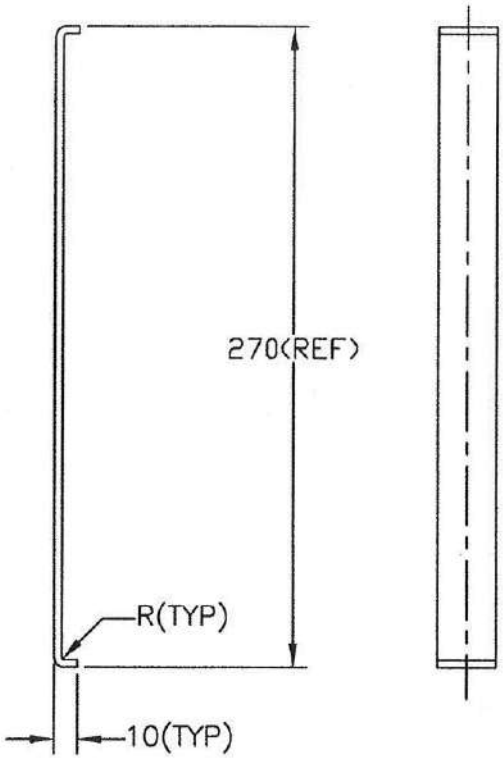
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	BACK FRAME ASSY
DRN	Ashish	MTL	—
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm; UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	—
APP	Sal/DD1	DRG No:-TD 2 A 65 U C0	SHEET 1 OF 1
DATE	22.06.15		

140

139





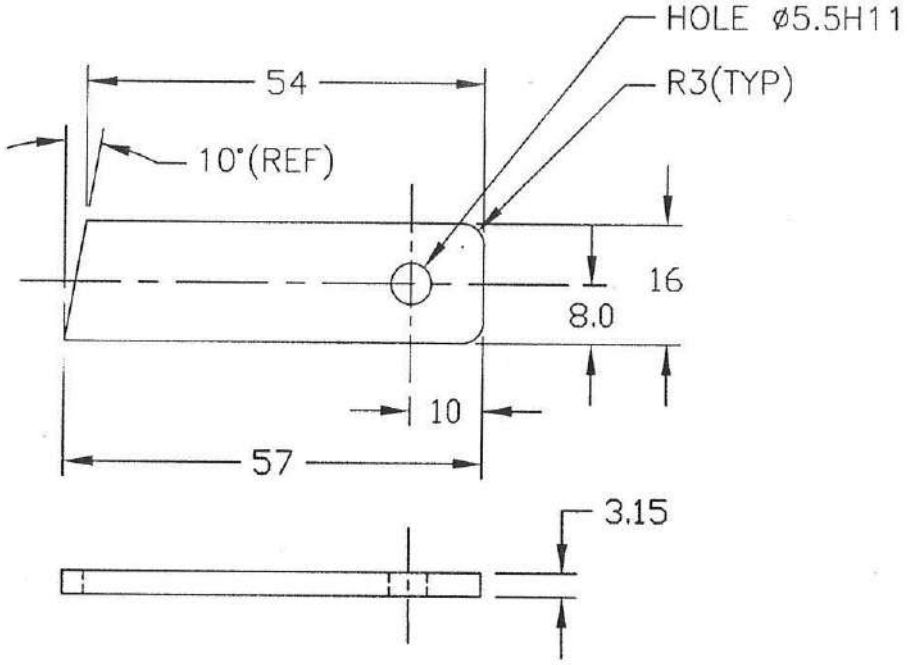
NOTE:–

1. REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN
		REVISIONS		

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Phool Singh	NOM	STRUT
DRN	Ashish	MTL	SHEET MS HRA Gd'0' IS:1079 THICK 3.15mm (AA08)
CHD	Rajan	TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm; UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	—
APP	Rajan	DRG No:–TD 2 A 65 U C1	SHEET 1 OF 1
DATE	22.06.15		



NOTE:-

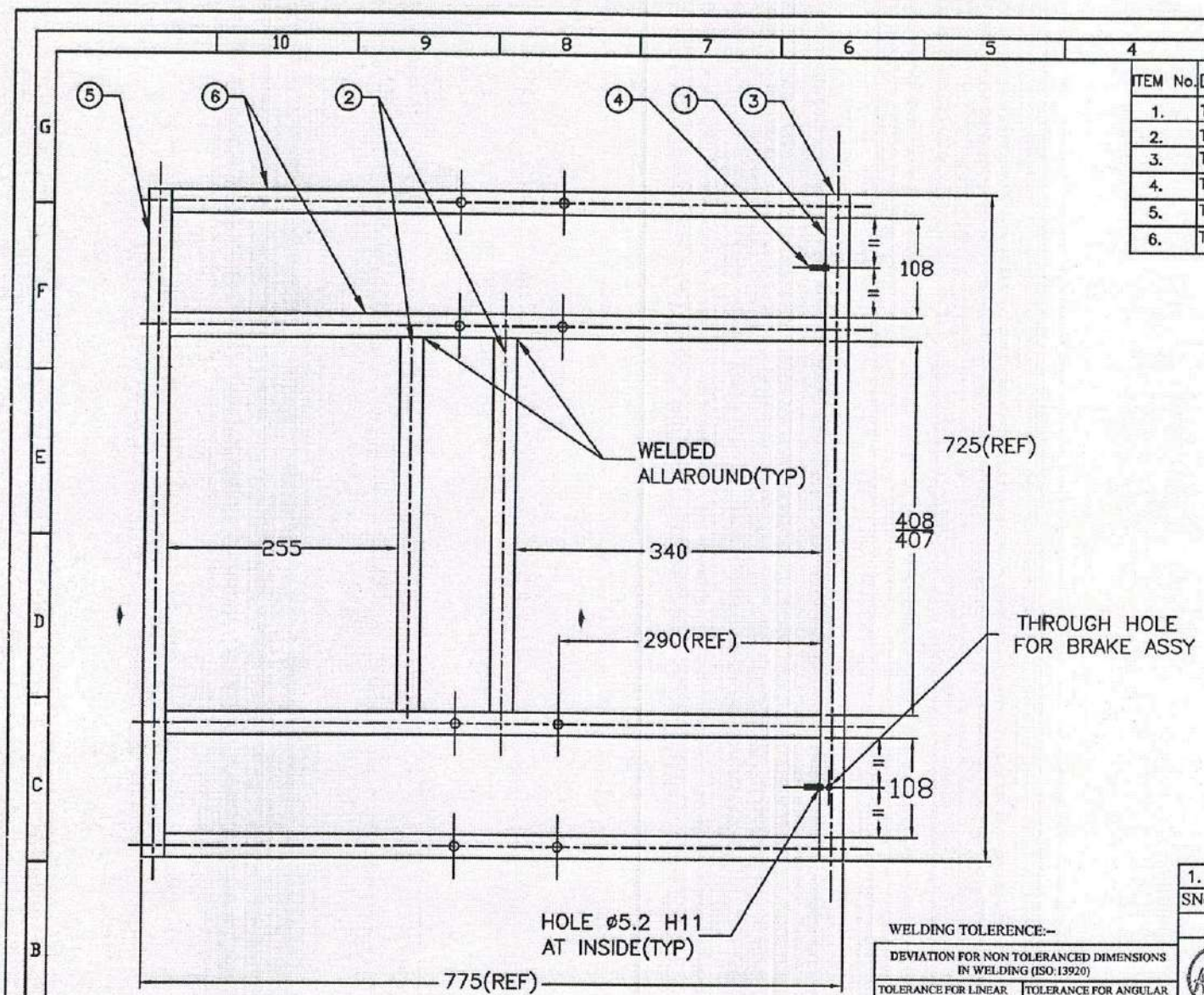
1.REMOVE SHARP EDGES & CORNERS.

SNo.	REGION	REVISION	DATE	SIGN

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	STRIP FOR MUDGUARD
DRN	Ashish	MTL	SHEET MS HRA Gd.'0', IS:1079 THICK 3.15mm (AA08)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm — UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	—
APP		DRG No:- TD 2 A 65 U C2	SHEET 1 OF 1
DATE	29.06.16		



ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 A 65 U B1	MAIN TUBE	1	
2.	TD 2 A 65 U B2	MIDDLE TUBE	2	
3.	TD 2 A 65 U B3	COVER PLATE	4	
4.	TD 2 A 65 U B4	MUDGUARD PIN	2	
5.	TD 2 A 65 U B5	REAR TUBE	1	
6.	TD 2 A 65 N 02	SIDE TUBE OUTER	4	

WELDING TOLERENCE:-

DEVIATION FOR NON TOLERANCED DIMENSIONS IN WELDING (ISO:13920)

TOLERANCE FOR LINEAR DIMENSION ('B' CLASS)	
2 to 30	±1
Over 30 up to 400	±2
Over 400 up to 1000	±3
Over 1000 up to 2000	±4
Over 2000 up to 4000	±6
Over 4000 up to 8000	±8
Over 8000 up to 12000	±10
Over 12000 up to 16000	±12
Over 16000 up to 20000	±14
Over 20000	±16

TOLERANCE FOR ANGULAR DIMENSION:-	
(i) RANGE FOR NOMINAL SIZE:-	
Up to 400	±0°45'
Over 400 upto 1000	±0°30'
Over 1000	±0°20'
(ii) ROUNDED TOLERANCE:-	
Up to 400	±13mm
Over 400 upto 1000	±9mm
Over 1000	±6mm

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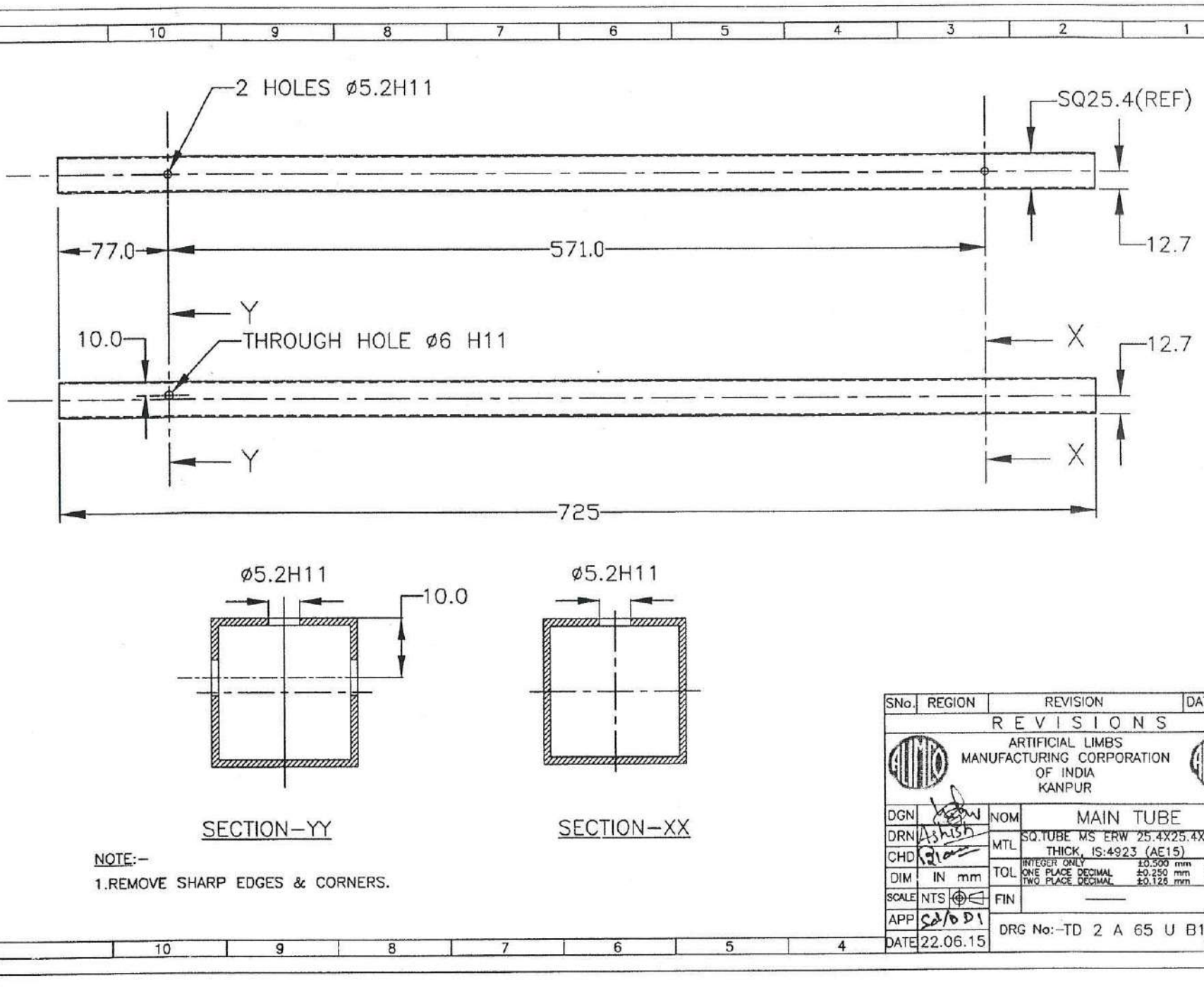
SNo.	REGION	REVISION	DATE	SIGN
1.	-----	DIM 408/407 WAS 410/409	18.04.19	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

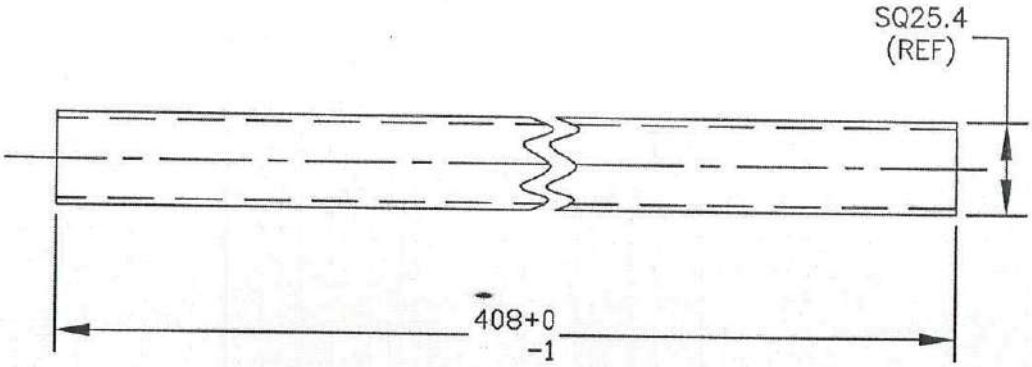
DGN	Ashish	NOM	REAR CHASIS ASSY
DRN		MTL	———
CHD	Jeevshant	HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS		
APP	SA/DDI	DRG No.- TD 2 A 65 U B0	REV 1 / SHEET 1 OF 1
DATE	22.06.15		

137


2 HOLES ø5.2H11
SQ25.4(REF)
77.0
571.0
12.7
Y
10.0
THROUGH HOLE ø6 H11
X
12.7
Y
X
725
ø5.2H11
10.0
ø5.2H11
SECTION–YY
SECTION–XX
NOTE:–
1.REMOVE SHARP EDGES & CORNERS.
SNo. REGION REVISION DATE SIGN
REVISIONS
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR
DGN
DRN Ashish
CHD
DIM IN mm
SCALE NTS
APP Sd/D D1
DATE 22.06.15
NOM MAIN TUBE
MTL SQ.TUBE MS ERW 25.4X25.4X1.8mm THICK, IS:4923 (AE15)
TOL INTEGER ONLY ±0.500 mm
ONE PLACE DECIMAL ±0.250 mm
TWO PLACE DECIMAL ±0.125 mm
UNLESS SPECIFIED
FIN ——
DRG No:–TD 2 A 65 U B1
SHEET 1 OF 1

136

135



NOTE:—

1. REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN
1	——	DIM 408+0 -1 WAS DIM 410+0 -1	18.04.19	

REVISIONS

TOLERENCE:--

DEVIATION FOR NON TOLERANCED DIMENSIONS (ISI:2102 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 to1000	±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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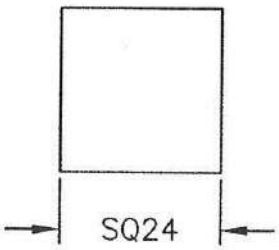
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	MIDDLE TUBE
DRN		MTL	SQ.TUBE MS ERW 25.4X25.4X1.8mm THICK, IS:4923 (AE15)
CHD		HEAT TREATMENT	——
DIM	IN mm	SURFACE TREATMENT	——
SCALE	NTS		
APP	Sd/DD1		
DATE	22.06.15		

DRG No:- TD 2 A 65 U B2 | REV 1 | SHEET 1OF1

134



NOTE:–

1.REMOVE SHARP EDGES & CORNERS

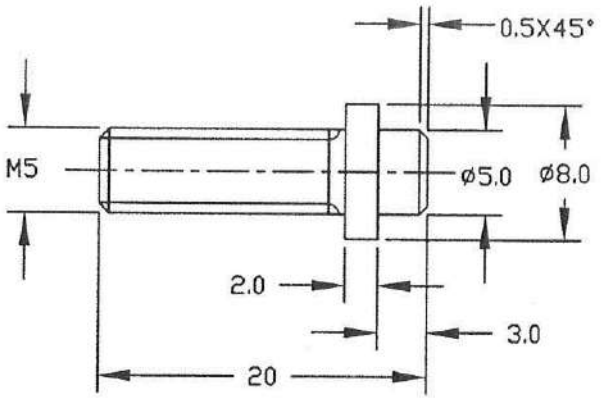
SNo.	REGION	REVISION	DATE	SIGN

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	COVER PLATE
DRN	Ashish	MTL	SHEET MS CRA GD'O' IS:513 THICK 1mm (AA22)
CHD		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		DRG No:– TD 2 A 65 U B3	SHEET 1 OF 1
DATE	22.06.15		

133



NOTE:-

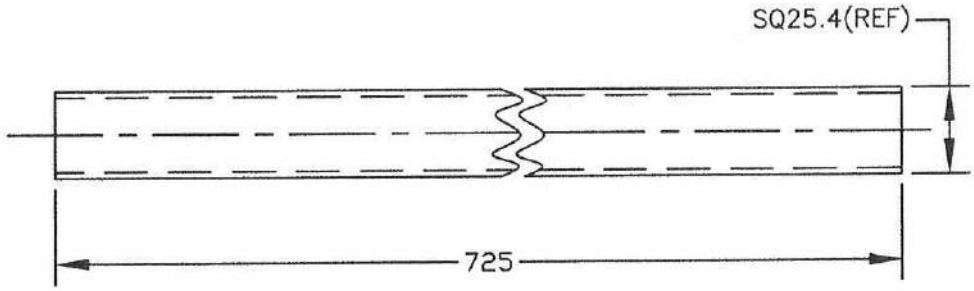
1.REMOVE SHARP EDGES & CORNERS.

SNo.	REGION	REVISION	DATE	SIGN

R E V I S I O N S

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	MUDGUARD PIN
DRN	Ashish	MTL	BAR MS CRBA ø8mm 13 S 25 IS:4855(AB 56)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm — UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	———
APP		DRG No:-	TD 2 A 65 U B4
DATE	22.06.15	SHEET	1 OF 1



NOTE:-

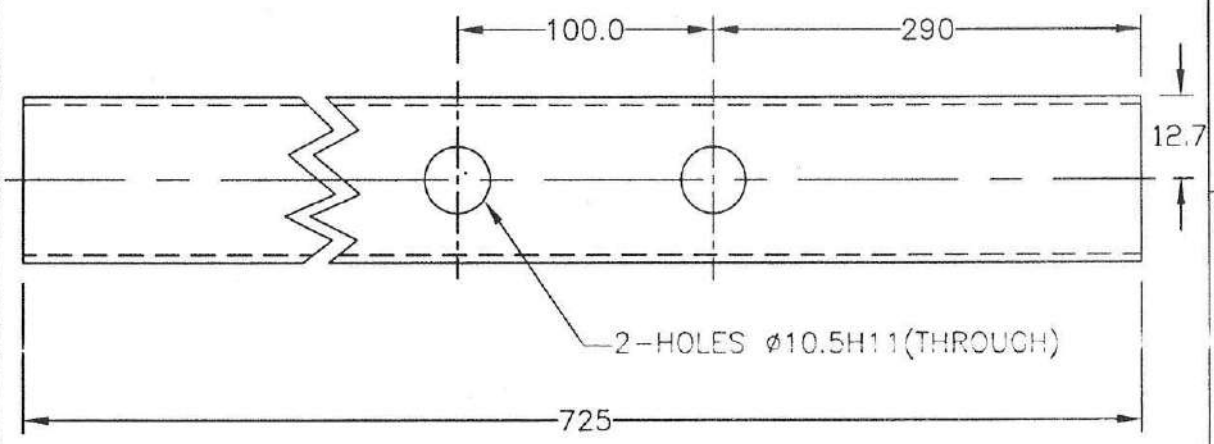
1.REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Bhudhi	NOM	REAR TUBE
DRN	Ashish	MTL	SQ.TUBE MS ERW 25.4X25.4X1.8mm THICK, IS:4923 (AE15)
CHD	Rajan	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	Rajan	DRG No:-	TD 2 A 65 U B5
DATE	22.06.15	SHEET	1 OF 1



NOTE:-

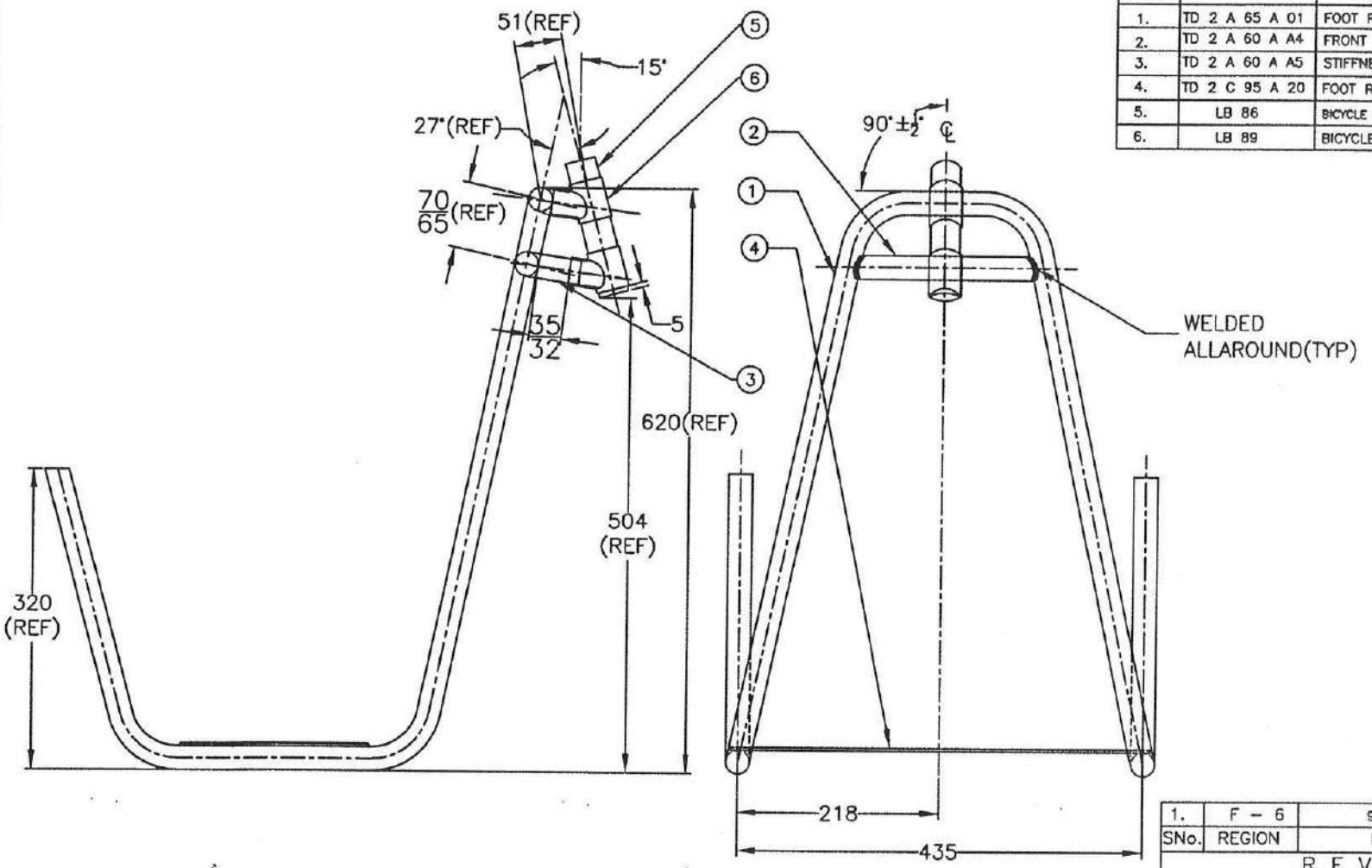
1.REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN
3	F-2 & E-2	DIMS 290 & HOLES Ø10.5H11 WERE 300 & Ø10.2H11	30.10.14	
2		MATERIAL AE-15 WAS AE-12	25.08.14	
1		REDESIGN & REDRAWN	19.11.12	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	SIDE TUBE OUTER
DRN		MTL	SQ.TUBE MS ERW 25.4X25.4X1.8mm THICK, IS:4923(AE15)
CHD		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	DRG No:- TD 2 A 65 N 02	SHEET 1OF1
APP	SD/DD1		
DATE	19.11.12		



ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 A 65 A 01	FOOT REST TUBE	1	
2.	TD 2 A 60 A A4	FRONT SUPPORT TUBE	1	
3.	TD 2 A 60 A A5	STIFFNER	1	
4.	TD 2 C 95 A 20	FOOT REST	1	
5.	LB 86	BICYCLE HEAD TUBE(FACE PIPE)	1	
6.	LB 89	BICYCLE TOP LUG	2	

NOTE :-

1.DRESS ALL WELDED JOINTS & FINISH SMOOTH

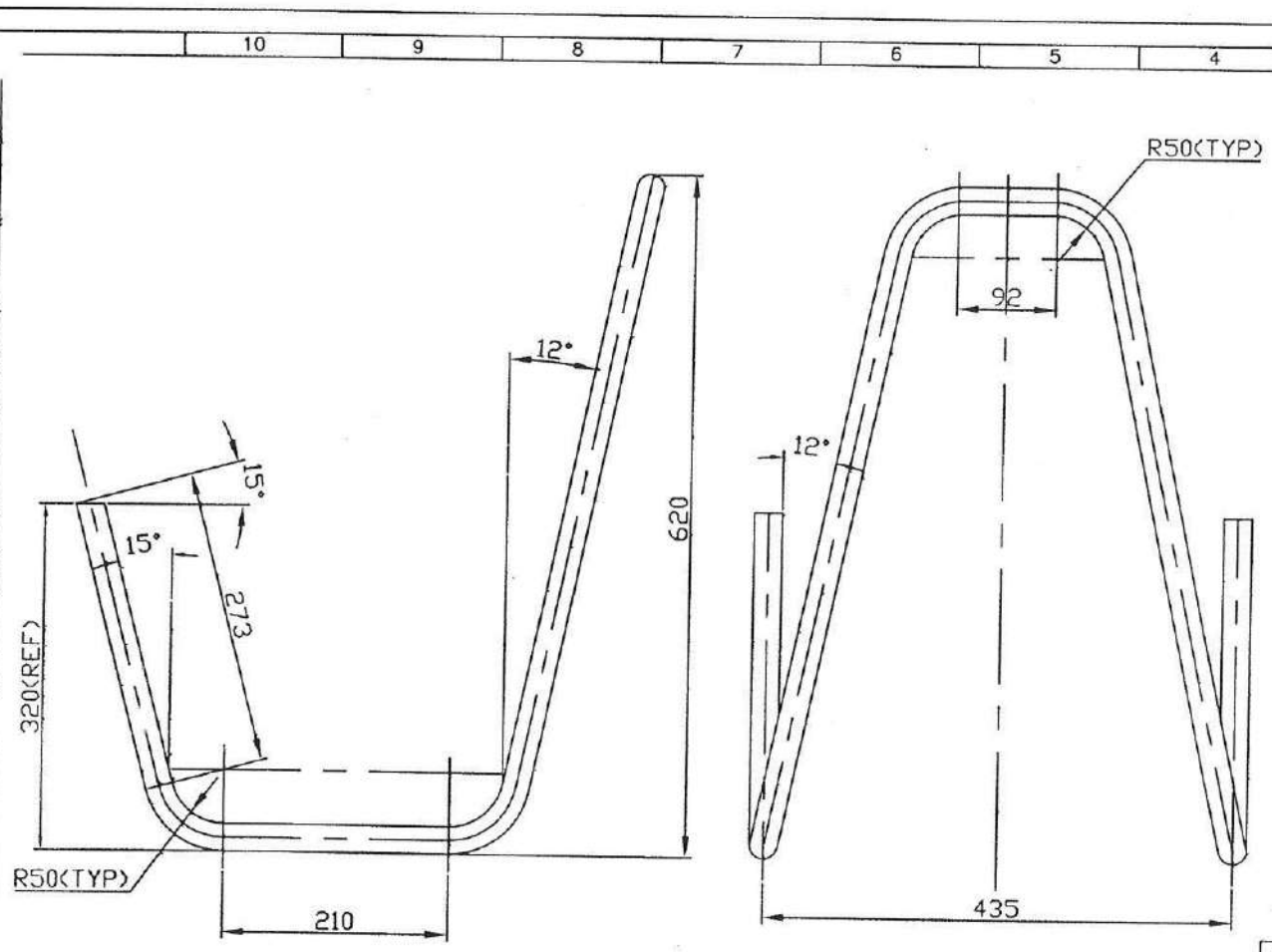
SNo.	REGION	REVISION	DATE	SIGN
1.	F – 6	90°±½° WAS 90°±0°	04.06.17	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	FRONT CHASIS ASSY
DRN	Ashish	MTL	———
CHD	Rao	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	DRG No:-TD 2 A 65 U A0	SHEET 1 OF 1
APP	Sd/- D1		
DATE	22.06.15		

130



NOTE:-

1.REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN
3	—	DIMS 320,273 & MTL AF16 WERE DIMS 242, 191& MTL AF60 RESPT.	25.08.14	
2	—	REDESIGN & REDRAWN		

REVISIONS

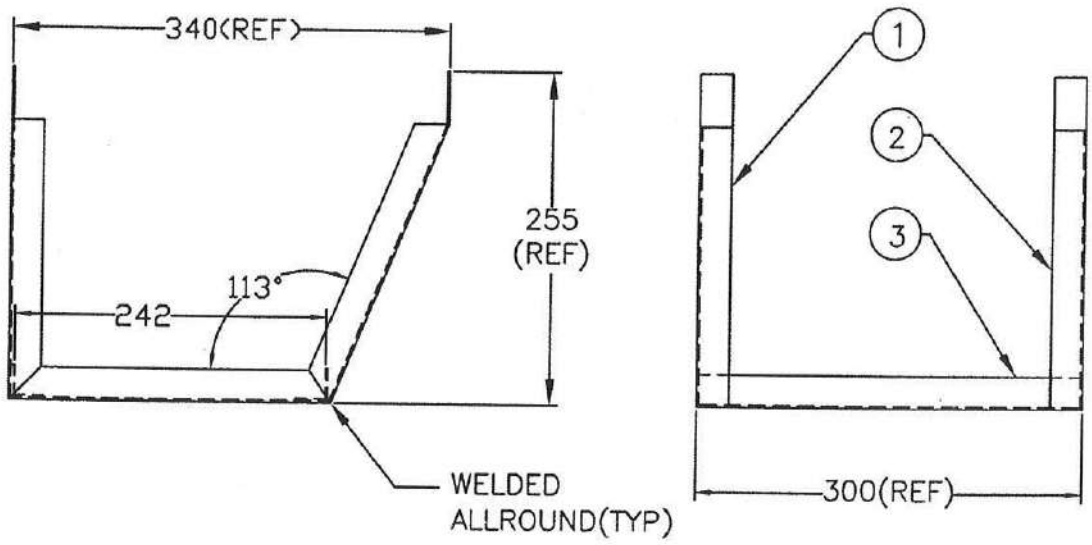
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	FOOT REST TUBE
DRN		MTL	STEEL TUBE ERW C1 OD25.4mm, THICK 1.6mm,IS:2039 ANNEALED (AF16)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm; UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	
APP	SCV/B.D.1		
DATE	8.8.2005	DRG No:-TD 2 A 65 A 01	SHEET 1OF1

01 G 2 248

129

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 A 65 U D1	TRAY HANGER(RIGHT)	1	
2.	TD 2 A 65 U D2	TRAY HANGER(LEFT)	1	
3.	TD 2 A 65 T 03	TRAY FRAME PIECE	2	



NOTE:–

1.DRESS ALL WELDED JOINTS & FINISH SMOOTH.

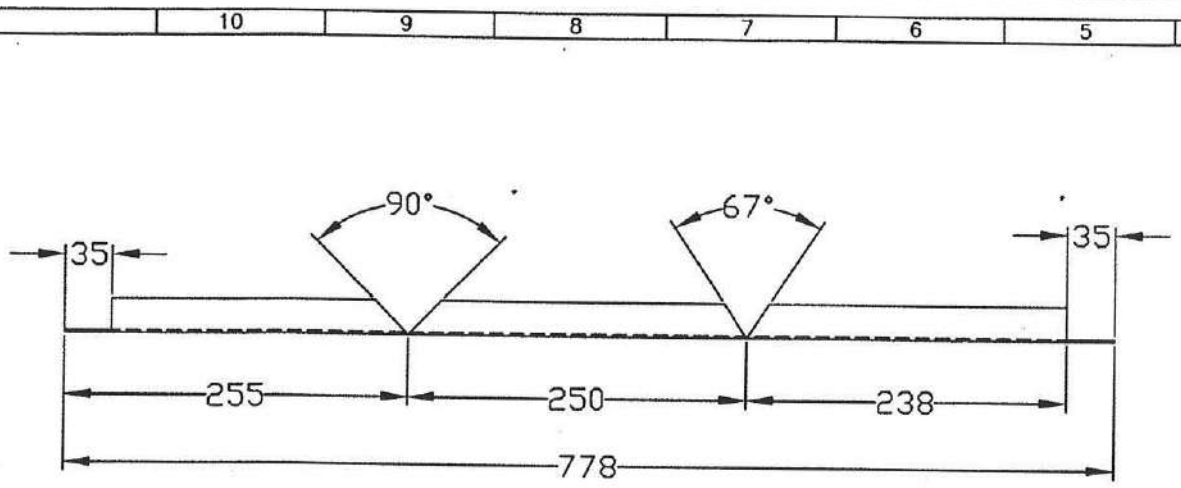
SNo.	REGION	REVISION	DATE	SIGN

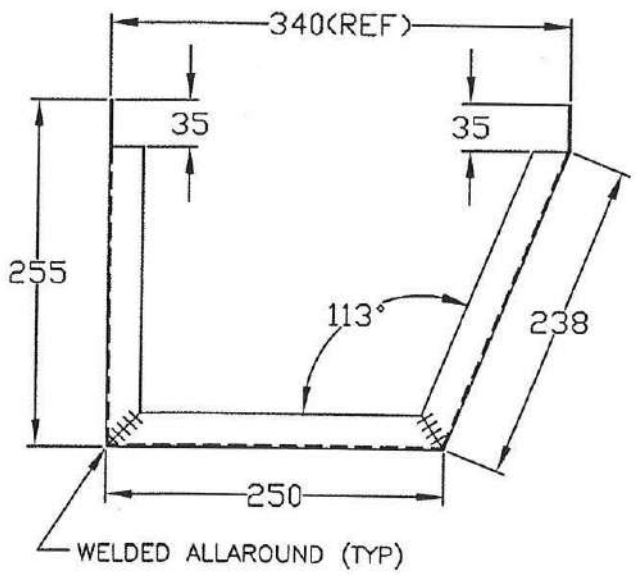
REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	BATTERY TRAY ASSY
DRN	Ashish	MTL	
CHD		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	DRG No:–TD 2 A 65 U D0	SHEET 1OF1
APP			
DATE	22.06.15		

128





NOTE:–

1 REMOVE SHARP EDGES & CORNERS.
2 DRESS WELDED JOINTS.

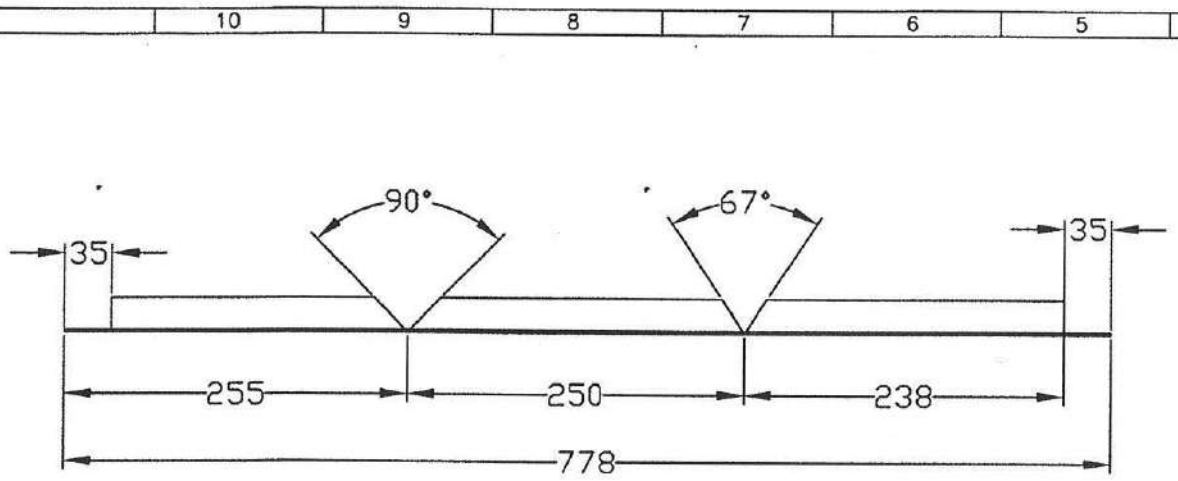
SNo.	REGION	REVISION	DATE	SIGN
1.	—	CUT DIMS 35 & 238 WERE 40 & 233	27.08.15	

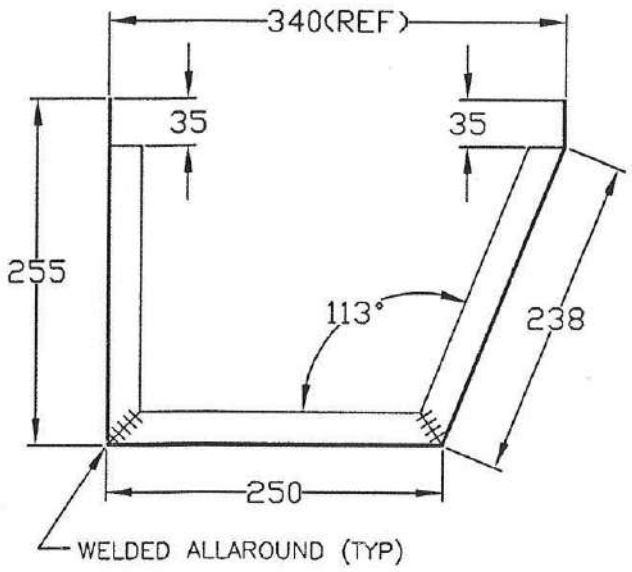
REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	TRAY HANGER (RIGHT)
DRN		MTL	ANGLE MS SIZE 25x25x1.6mm IS 226 (AD 39)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm — UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	—
APP		DRG No:–TD 2 A 65 U D1	SHEET 10F1
DATE	22.06.2015		

124





NOTE:–

1 REMOVE SHARP EDGES & CORNERS.
2 DRESS WELDED JOINTS.

SNo.	REGION	REVISION	DATE	SIGN
1.	——	CUT DIMS 35 & 238 WERE 40 & 233	27.08.15	

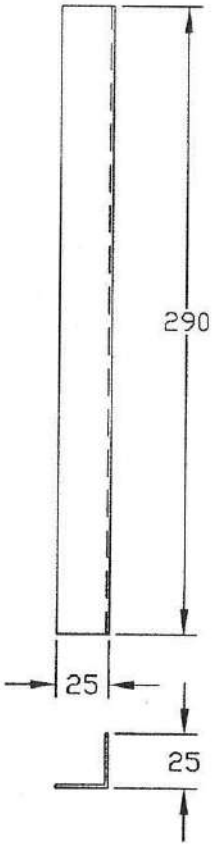
REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	TRAY HANGER (LEFT)
DRN		MTL	ANGLE MS SIZE 25x25x1.6mm IS 226 (AD 39)
CHD		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	DRG No:–TD 2 A 65 U D2	SHEET 1OF1
APP			
DATE	22.06.2015		

126

125



NOTE:-

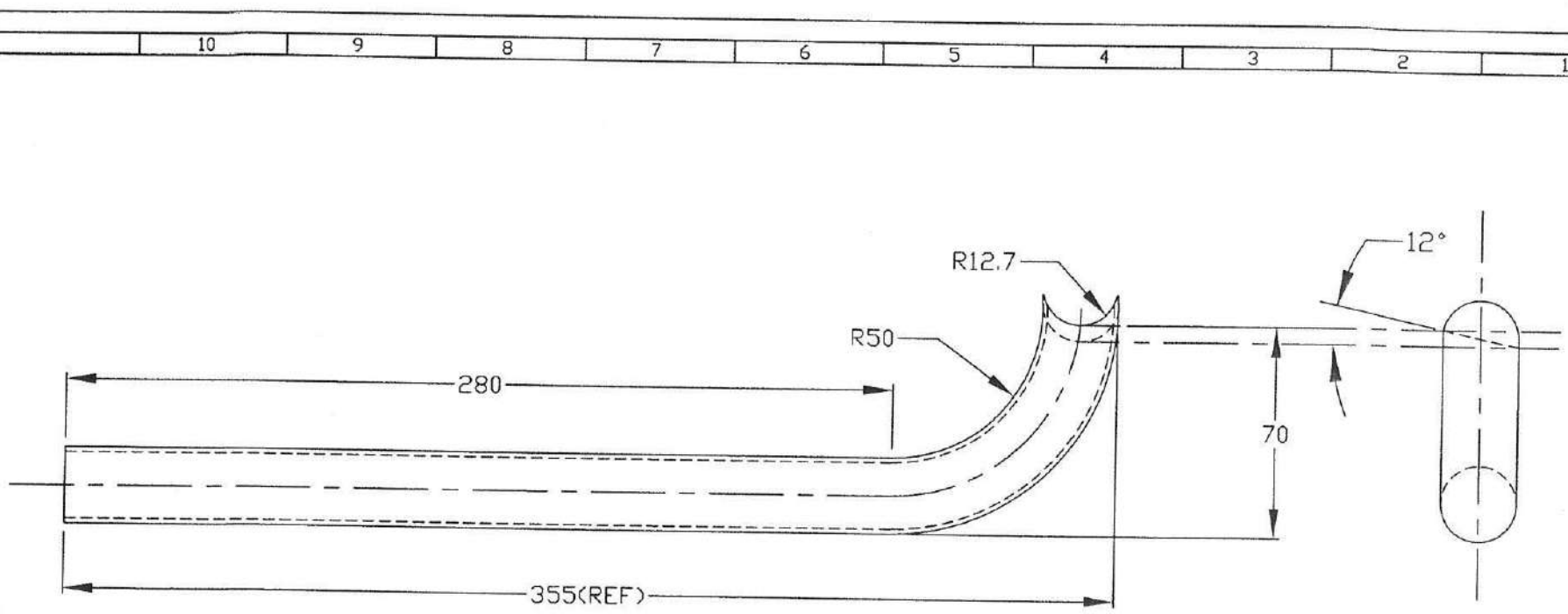
1 REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN
2	—	DIM 290 WAS 295	29.06.16	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	TRAY FRAME PIECE
DRN	Ashish	MTL	ANGLE MS SIZE 25x25x1.6mm IS 226 (AD 39)
CHD		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	Sd/DD1	DRG No:- TD 2 A 65 T 03	SHEET 1 OF 1
DATE	02.09.2014		



NOTE:–

1.REMOVE SHARP EDGES & CORNERS.

TOLERENCE:–

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 to1000	±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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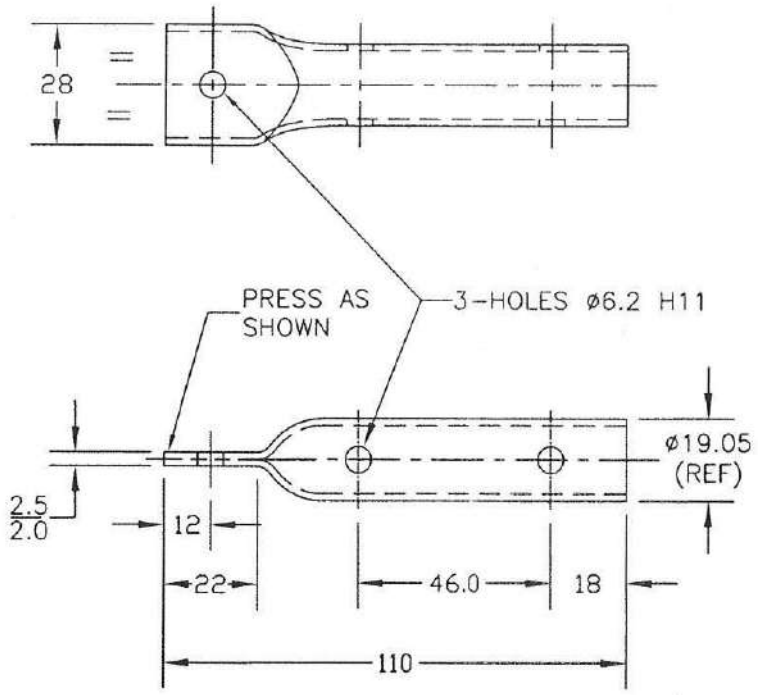
SNo.	REGION	REVISION	DATE	SIGN
4	—	DRAWING REDESIGN & REDRAWN	21.08.17	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA
KANPUR

DGN	Ashish	NOM	SIDE SUPPORT TUBE
DRN		MTL	STEEL TUBE ERW C1 OD25.4mm, THK 1.6mm IS:2039 ANNEALED(AF16)
CHD		HEAT TREATMENT	—
DIM	IN mm	SURFACE TREATMENT	
SCALE			
APP	Sd/ DDI	DRG No:-	TD 2 A 65 A 03
DATE	16.09.2005		SHEET 1 OF 1

124



NOTE:-

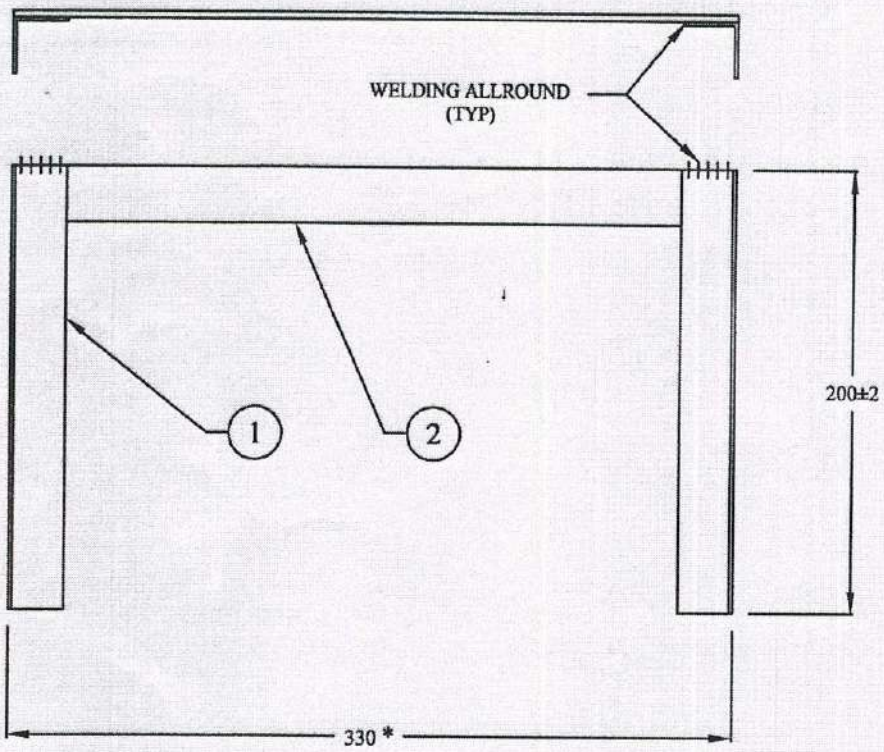
1. REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN
R E V I S I O N S				

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	BRAKE HOLDER TUBE
DRN	Ashish	MTL	STEEL TUBE ERW-C1 OD 19.05mm THICK 1.0mm IS:2039 ANNEALED(AF14)
CHD	[signature]	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	DRG No:-	TD 2 A 65 V 01
APP	[signature]	SHEET	1 OF 1
DATE	13.11.15		

SL.No.	DRAWING No.	NOMENCLATURE	QTY	REMARK
1	TD 2 A 65 U J1	SIDE HOLDER	2	
2	TD 2 A 65 U J2	LINK PLATE	1	



NOTE:-

1 DRESS WELDED JOINTS.
*2 DIMENSION SUITABLY ADJUST AS PER AVAILABLE ICE BOX .

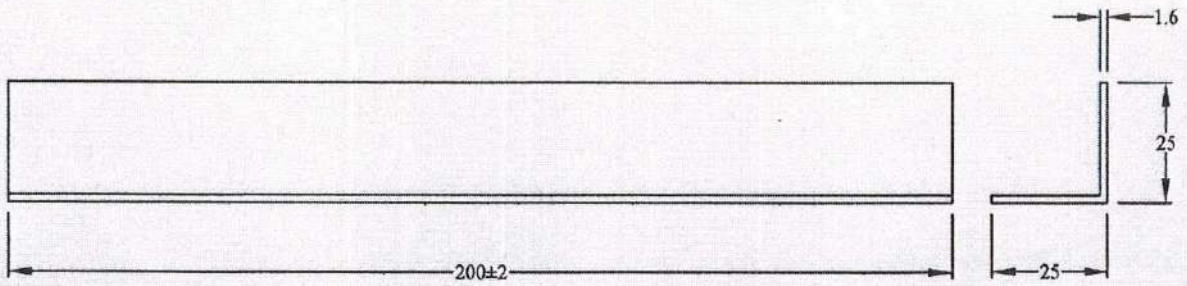
SNo.	REGION	REVISION	DATE	SIGN

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	SIDE HOLDER ASSY FOR ICE BOX
DRN		MTL	
CHD		HEAT TREATMENT	
DIM	IN mm	SURFACE TREATMENT	
SCALE	NTS		
APP		DRG No:- TD 2 A 65 U J0	REV 0 / SHEET 1 OF 1
DATE	24.08.2018		

122



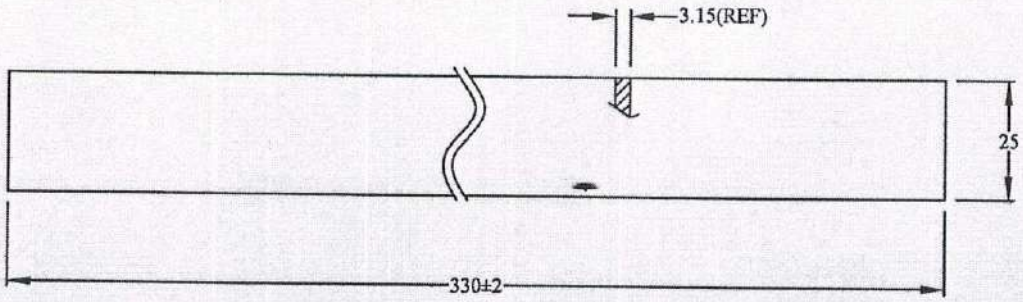
NOTE:-

1 . REMOVE SHARP EDGES AND CORNERS.

SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	SIDE HOLDER
DRN		MTL	ANGLE MS SIZE 25x25x1.6mm THICK, IS:2062 (A D 39)
CHD		HEAT TREATMENT	
DIM	IN mm	SURFACE TREATMENT	
SCALE	NTS		
APP		DRG No:- TD 2 A 65 U J1	REV 0 / SHEET 1OF1
DATE	24.08.2018		



NOTE:-

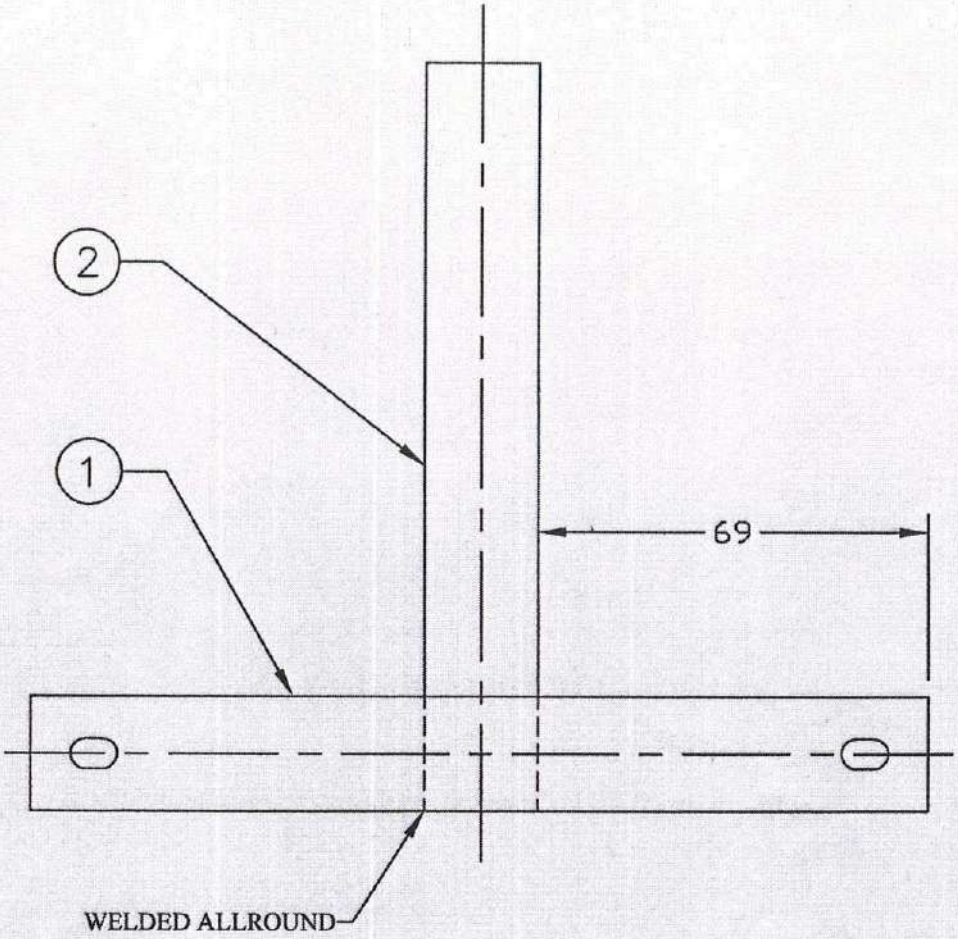
1 . REMOVE SHARP EDGES AND CORNERS.

SNo.	REGION	REVISION	DATE	SIGN
		REVISIONS		

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	LINK PLATE
DRN		MTL	SHEET MS HR1 Gd '0', IS:1079, THICK 3.15mm (AA 08)
CHD		HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS		
APP			
DATE	24.08.2018	DRG No:- TD 2 A 65 U J2	REV 0 / SHEET 1OF1

ITEM No.	DRG No.	NOMENCLATURE	QTY.	REMARKS
1	TD 2 A 65 U K1	HANGER PLATE	01	
2	TD 2 A 65 U 01	PLATE FOR CONTROLLER	01	



NOTE:-

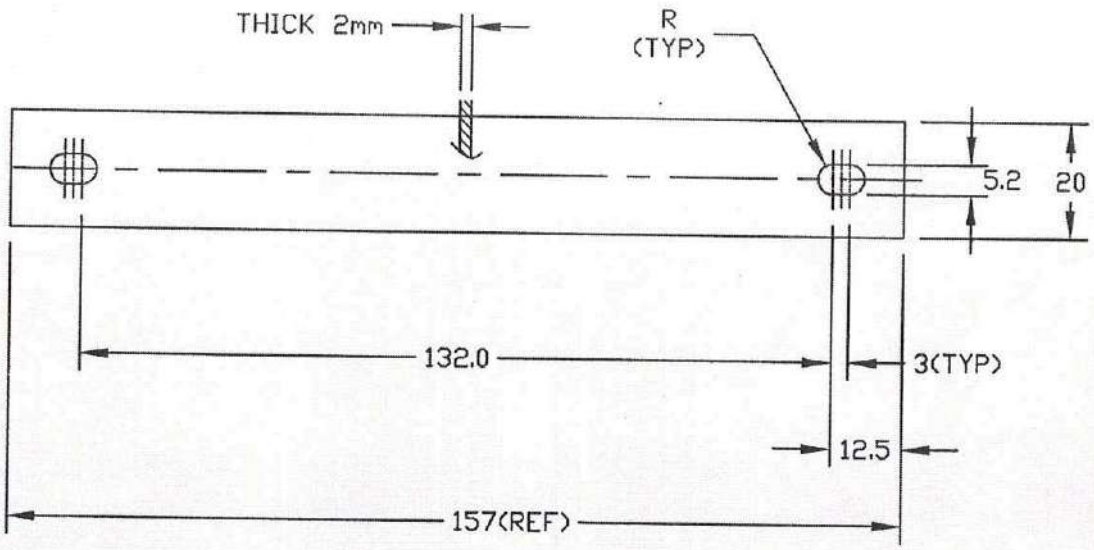
1. DRESS WELDED JOINT.

SNo.	REGION	REVISION	DATE	SIGN

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	PLATE ASSY FOR CONTROLLER
DRN	Ashish	MTL	———
CHD		HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS		
APP		DRG No:- TD 2 A 65 U KO	REV 0 / SHEET 1OF1
DATE	28.08.2018		



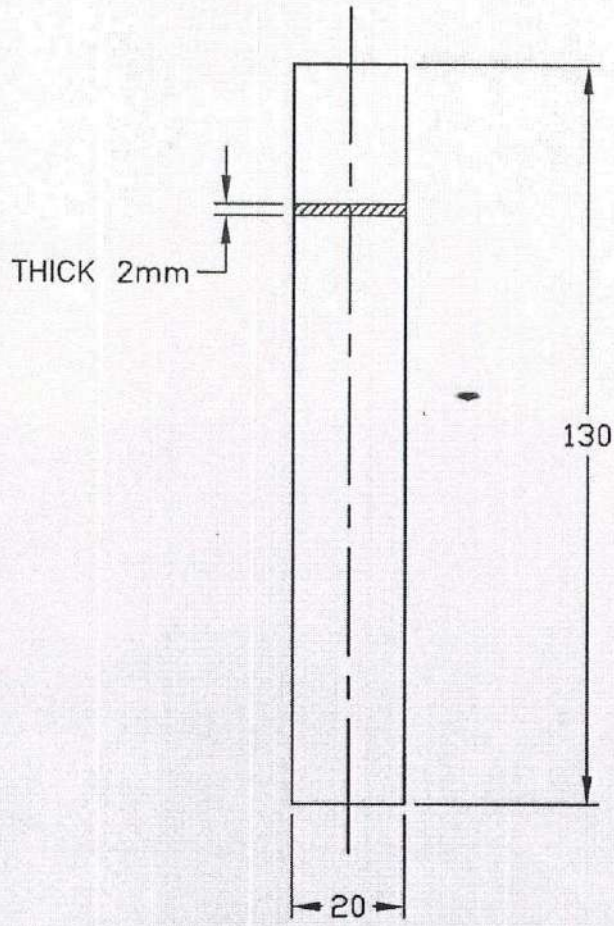
NOTE:-

1. REMOVE SHARP EDGES AND CORNERS.

SNo.	REGION	REVISION	DATE	SIGN
R E V I S I O N S				

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	HANGER PLATE
DRN		MTL	SHEET MS CR1 GD'0', IS:513, THICK 2mm, (AA 27)
CHD		HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS		
APP		DRG No:- TD 2 A 65 U K1	REV 0 / SHEET 1OF1
DATE	28.08.2018		



NOTE:-

1.REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN
1	———	HOLE ø5.2H11 AND DIM 25 DELETED	28.08.18	

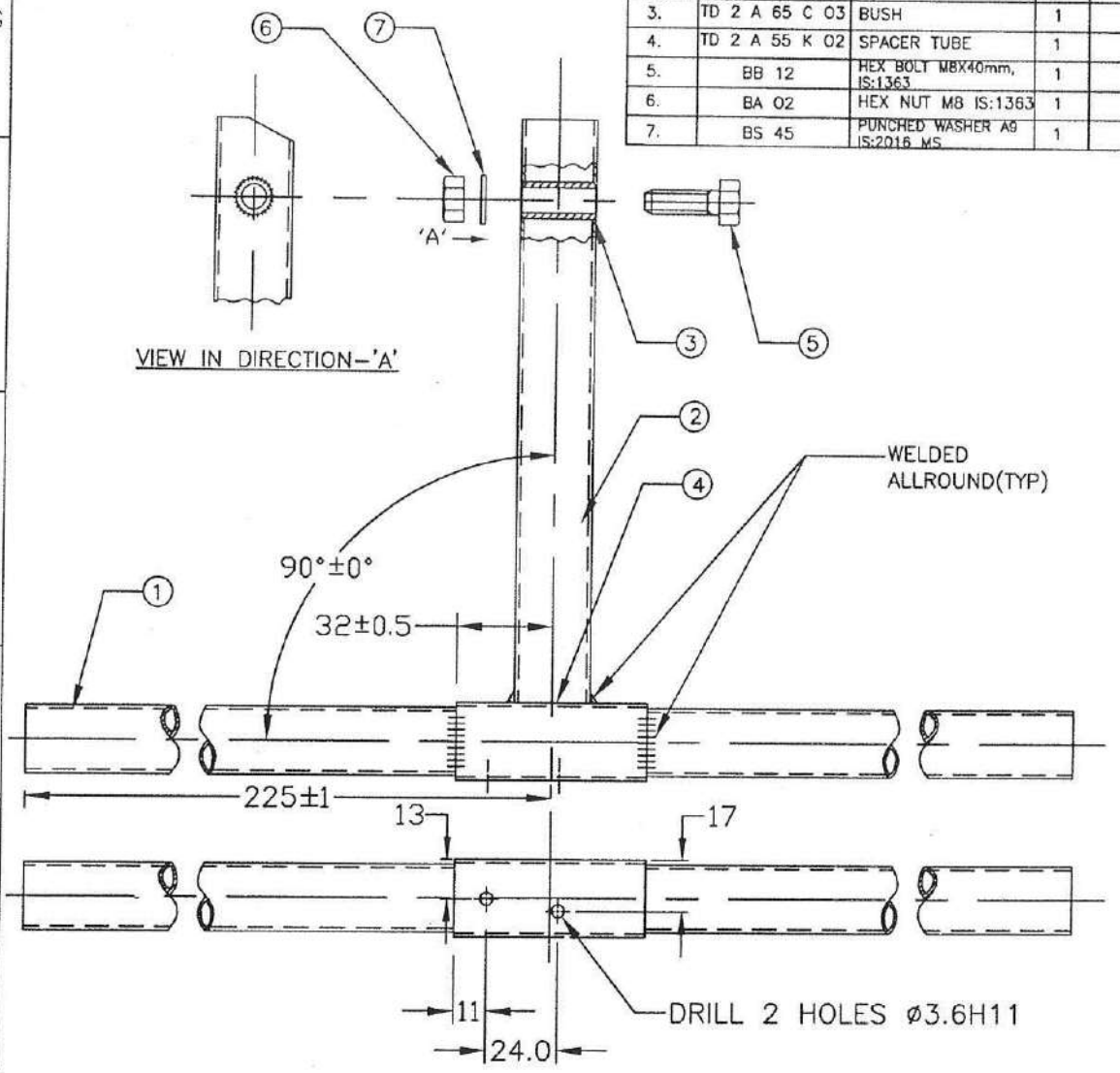
REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Alish	NOM	PLATE FOR CONTROLLER
DRN	Alish	MTL	SHEET MS CR1 GD'O' IS:513 THICK 2mm (AA 27)
CHD	Sharma	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	Sd/DDI		
DATE	22.06.2015	DRG No:- TD 2 A 65 U 01	REV 1 / SHEET 1OF1

116

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 A 65 C 01	HANDLE TUBE	1	
2.	TD 2 A 65 C 02	HANDLE LINK	1	
3.	TD 2 A 65 C 03	BUSH	1	
4.	TD 2 A 55 K 02	SPACER TUBE	1	
5.	BB 12	HEX BOLT M8X40mm, IS:1363	1	
6.	BA 02	HEX NUT M8 IS:1363	1	
7.	BS 45	PUNCHED WASHER A9 IS:2016 MS	1	



NOTE:–

1.DRESS ALL WELDED JOINTS & FINISH SMOOTH

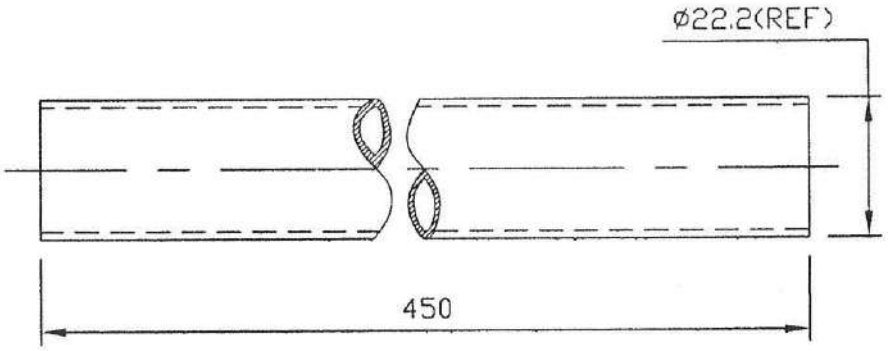
SNo.	REGION	REVISION	DATE	SIGN
5	—	2 HOLES ø3.6 H11 ADDED	29.06.16	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	HANDLE ASSY
DRN	Ashish	MTL	—
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm; UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	Ni.Cr PLATED Gd.2, IS:1068
APP	SA/DD1	DRG No:– TD 2 A 65 C 00	SHEET 1 OF 1
DATE	08.08.05		

01 J 3 202



NOTE:-
1.REMOVE SHARP EDGES & CORNERS

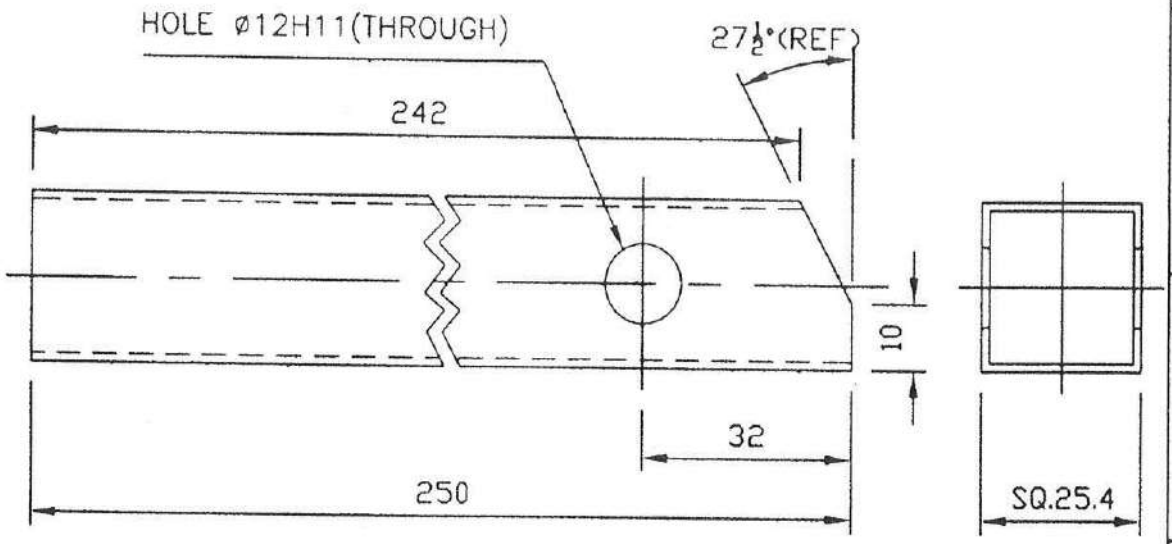
SNo.	REGION	REVISION	DATE	SIGN
3	—	DIM 450 WAS 350	25.08.14	
2	—	DRAWING REDRAWN	19.11.12	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	HANDLE TUBE
DRN		MTL	MS TUBE OD22.2mm,THK 1.2mm ERW17,TS 40KG/mm² IS:2039 (AF25)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm; UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	—
APP		DRG No:- TD 2 A 65 C 01	SHEET 1OF1
DATE	01.01.94		

01 | J | 3 | 091



NOTE:-
1.REMOVE SHARP EDGES & CORNERS

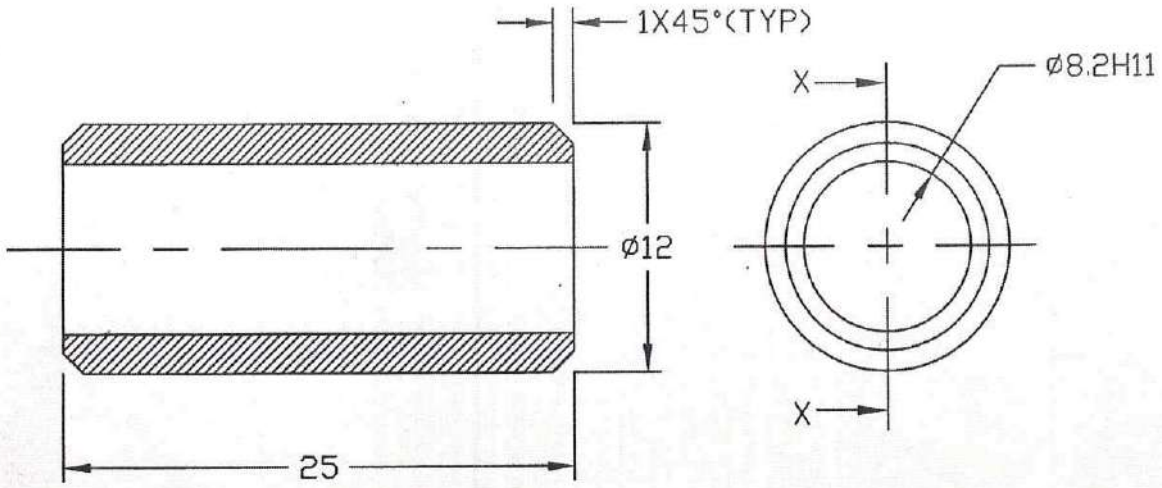
SNo.	REGION	REVISION	DATE	SIGN
5	—	MATERIAL AE 12 WAS AE 15	23.12.16	
4	—	MATERIAL AE15 WAS AE12	25.08.14	
3	—	DRAWING REDRAWN	19.11.12	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	HANDLE LINK
DRN		MTL	SQ.TUBE MS ERW 25.4X25.4X1.22mm THICK, IS:1239 (AE12)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm — UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	—
APP	Sd/D D1	DRG No:- TD 2 A 65 C 02	SHEET 1OF1
DATE	08.08.05		

01 J 3 092



SECTION–XX

MTL:–

BAR MS CRBA ø12mm 13 S 25
(11 C 10 S 25), IS:9550 (AB 55)
OR
STEEL TUBE ERW C1 OD12mm,
THICKNESS 2.0mm,IS:2039,
ANNEALED (AF 52)

NOTE:–

1.REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN
3	C–5	MTL AF 52 ADDED AS AN ALTERNATE	27.09.18	

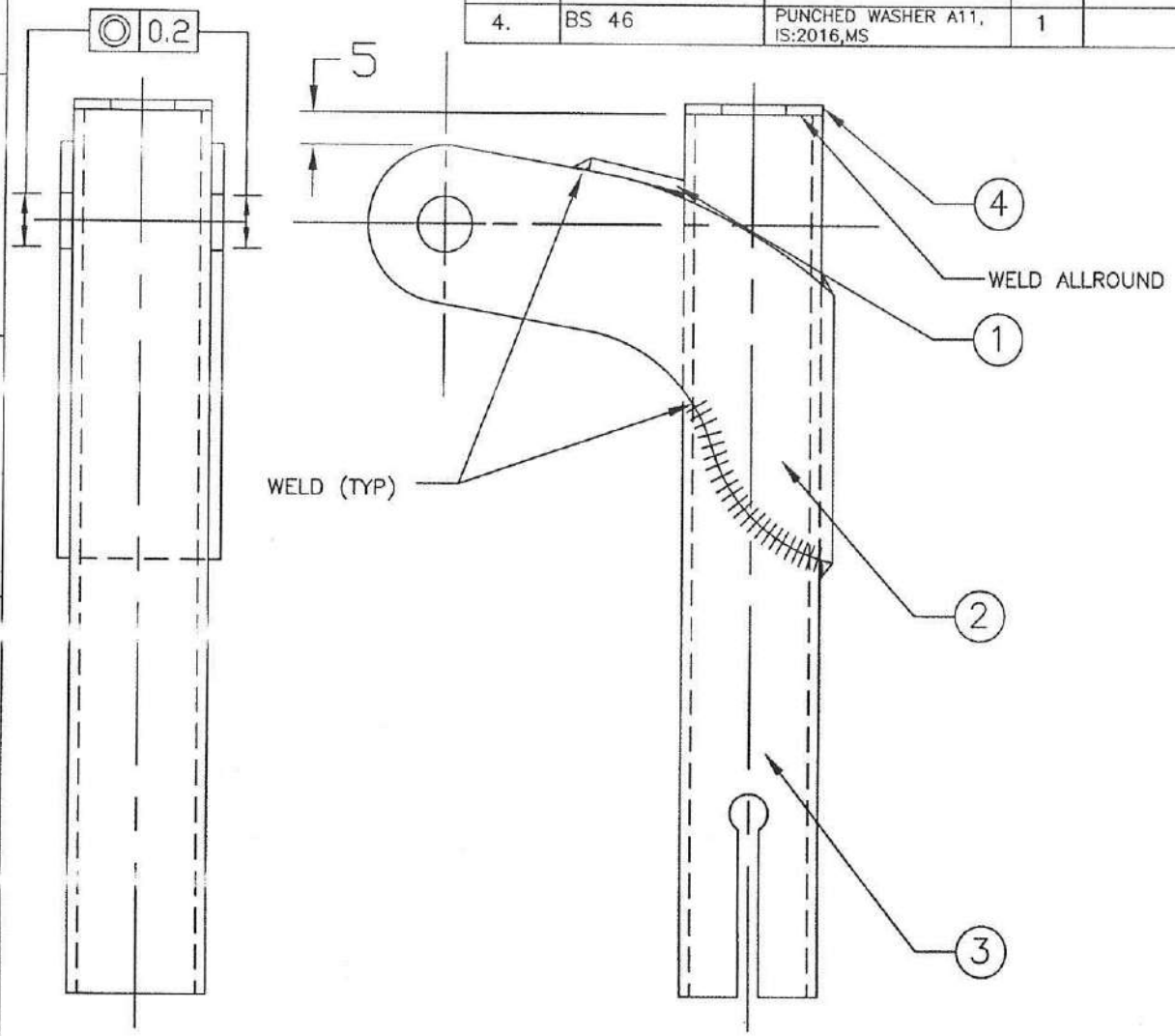
REVISIONS

ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR

DGN	Abhishek	NOM	BUSH
DRN	Abhishek	MTL	INDICATED
CHD	Gaur	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	Sd/ DDI		
DATE	08.08.2005	DRG No:– TD 2 A 65 C 03	REV 3 / SHEET 1OF1

111

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 A 65 D 01	PLATE	1	
2.	TD 2 N 85 B 02	CLAMP	1	
3.	TD 2 C 98 A B1	CENTRE TUBE	1	
4.	BS 46	PUNCHED WASHER A11, IS:2016,MS	1	



NOTE :—

1. DRESS ALL WELDED JOINTS & FINISH SMOOTH

SNo.	REGION	REVISION	DATE	SIGN
3	——	TD 2 N 85 B 02 WAS TD 2 A 35 F 02 AT ITEM No.2	29.06.16	

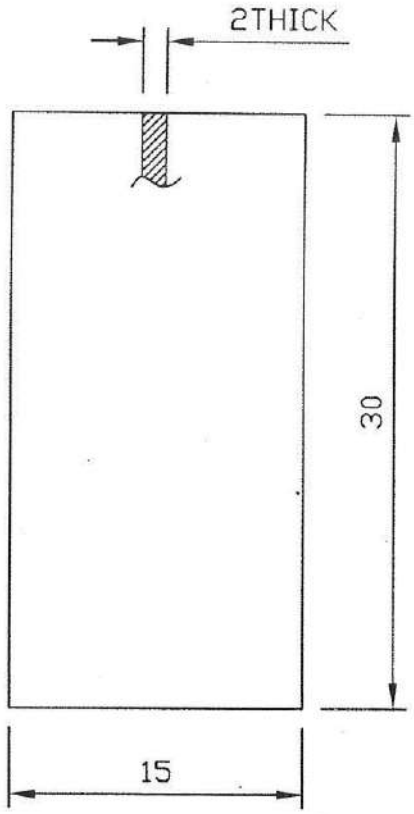
REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	CENTRE TUBE ASSY
DRN	Ashish	MTL	——
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm — UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	Ni.Cr PLATED Gd.2, IS:1068
APP	Sd/ DDI	DRG No:— TD 2 A 65 D 00	SHEET 1 OF 1
DATE	08.08.05		

01 J 3 094

(110)



NOTE:-

1.REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN
2	—	DRAWING REDRAWN	19 11 12	

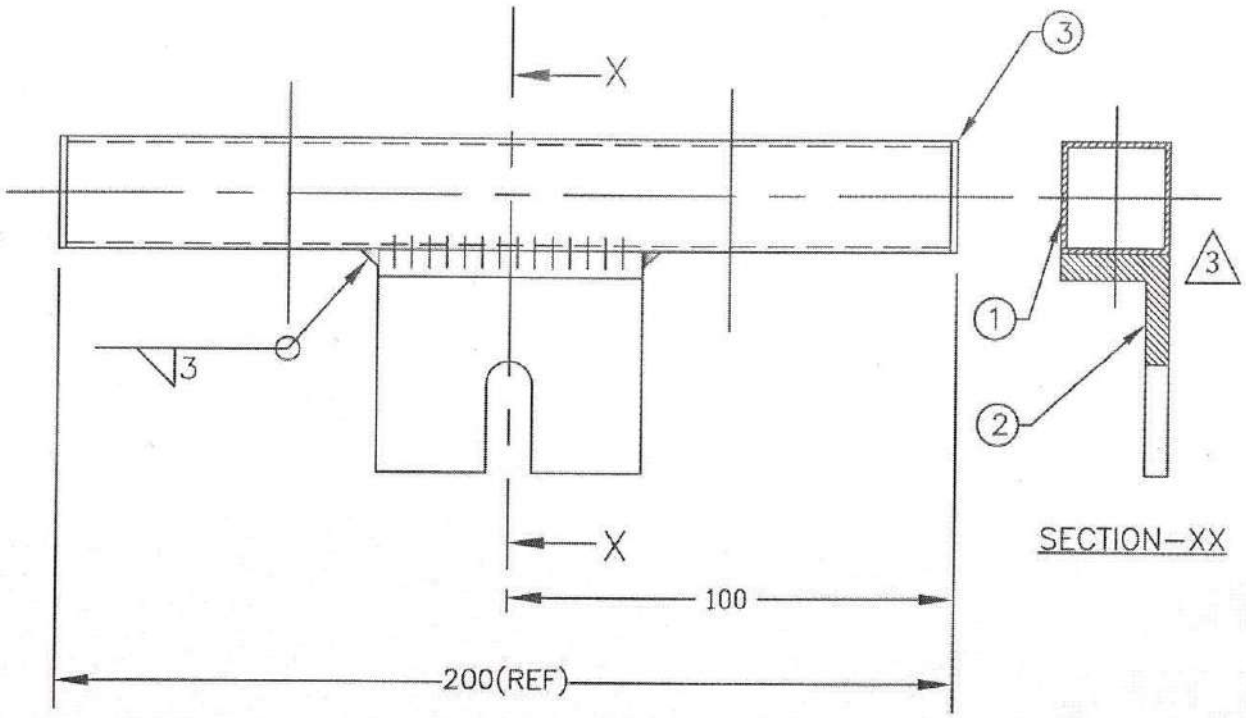
REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	PLATE
DRN		MTL	SHEET MS CRA Gd.'0', IS:513 THICK 2mm (AA27)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm — UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	—
APP		DRG No:- TD 2 A 65 D 01	SHEET 10F1
DATE	08.08.05		

01 J 3 095

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	
3.	TD 2 A 65 U B3	COVER PLATE	2	



SECTION–XX

NOTE:–

1. DRESS WELDED JOINT.

WELDING TOLERENCE:--

DEVIATION FOR NON TOLERANCED DIMENSIONS IN WELDING (ISO:13920)

TOLERANCE FOR LINEAR DIMENSION ('B' CLASS)	
2 to 30	±1
Over 30 up to 400	±2
Over 400 up to 1000	±3
Over 1000 up to 2000	±4
Over 2000 up to 4000	±6
Over 4000 up to 8000	±8
Over 8000 up to 12000	±10
Over 12000 up to 16000	±12
Over 16000 up to 20000	±14
Over 20000	±16

TOLERANCE FOR ANGULAR DIMENSION:-	
(i) RANGE FOR NOMINAL SIZE:-	
Up to 400	±0°45'
Over 400 upto 1000	±0°30'
Over 1000	±0°20'
(ii) ROUNDED TOLERANCE:-	
Up to 400	±0°13'
Over 400 upto 1000	±0°9'
Over 1000	±0°6'

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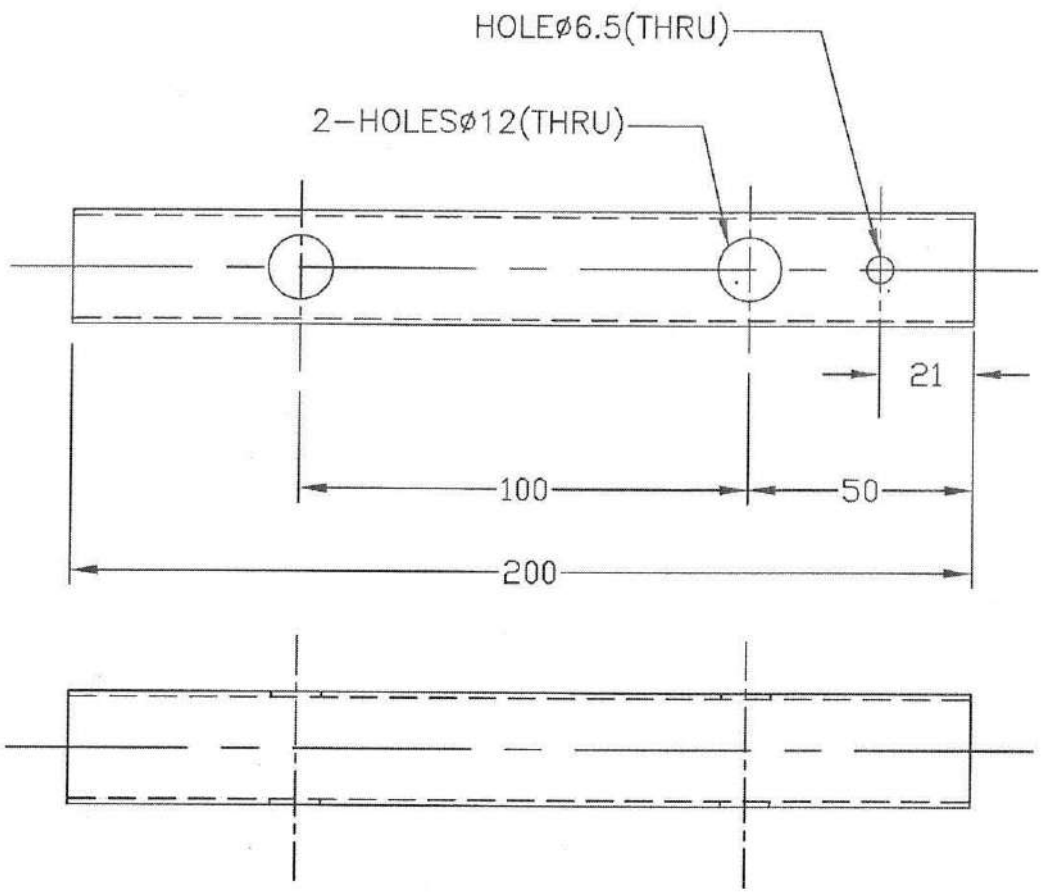
SNo.	REGION	REVISION	DATE	SIGN
3	----	DIMENSION 3 mm REMOVED	24.02.20	
2	F - 2&5	ITEM No 3 ADDED	24.05.18	
1	E - 1	ITEM No 2 SHIFT TO 3mm	30.10.14	S.DD1

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	BRACKET TUBE ASSY
DRN		MTL	———
CHD		HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	POWDER COATED COLOUR AS APPROVED
SCALE	NTS	DRG No:- TD 2 A 65 P 00	REV 3 / SHEET 1OF1
APP	S.DD1		
DATE	19.11.2012		



NOTE:–
1.REMOVE SHARP EDGES & CORNERS

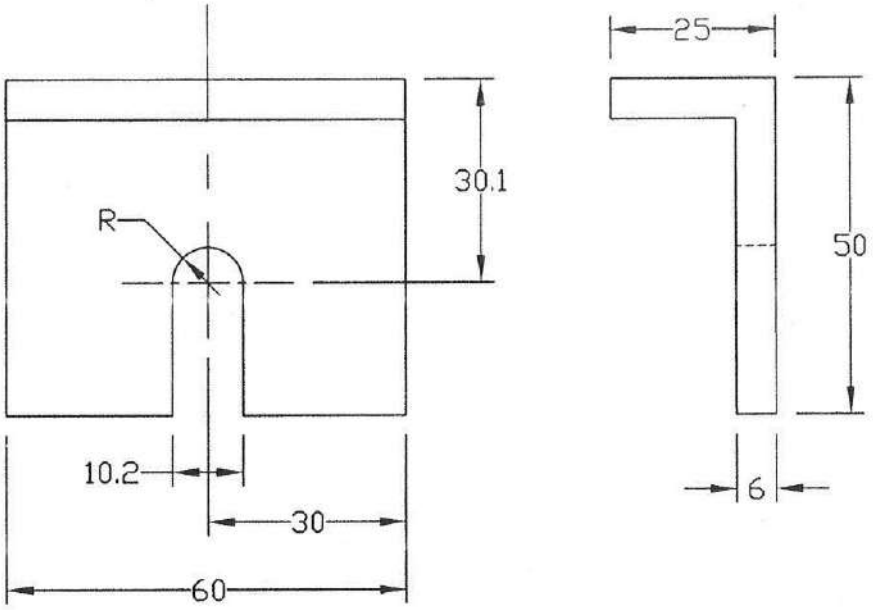
SNo.	REGION	REVISION	DATE	SIGN
3	G-3	HOLES OF Ø12 WAS Ø10.5H11 AND HOLE OF Ø6.5 ADDED.	24.02.20	
2	G-3	HOLES OF Ø10.5H11 WAS Ø10.2H11	30.10.14	S. DD1
1	--	MATERIAL AE-15 WAS AE-12	25.08.14	S. DD1

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DIM.	TOLERANCE		
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

DGN		NOM	BRACKET TUBE
DRN		MTL	SQ.TUBE MS ERW 25.4X25.4X1.8mm THICK, IS:4923(AE15)
CHD		TOL	———
DIM	IN mm	FIN	———
SCALE	NTS		
APP	S. DD1	DRG No:– TD 2 A 65 P 01	REV 03 / SHEET 1OF1
DATE	19.11.2012		



NOTE:-
1.REMOVE SHARP EDGES & CORNERS

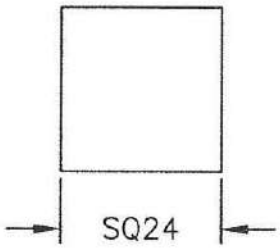
SNo.	REGION	REVISION	DATE	SIGN
2	F-3	DIM 30.1 ADDED & DIM 25 DELETED	30.10.14	
1	E-4	SLOT DIMS 10.2 WAS 10.5	25.08.14	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	BRACKET
DRN		MTL	ANGLE MS SIZE-50X50X6mm, IS:226(AD36)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm; UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	
APP		DRG No:- TD 2 A 65 P 02	SHEET 1OF1
DATE	19.11.12		

106



NOTE:-

1. REMOVE SHARP EDGES & CORNERS

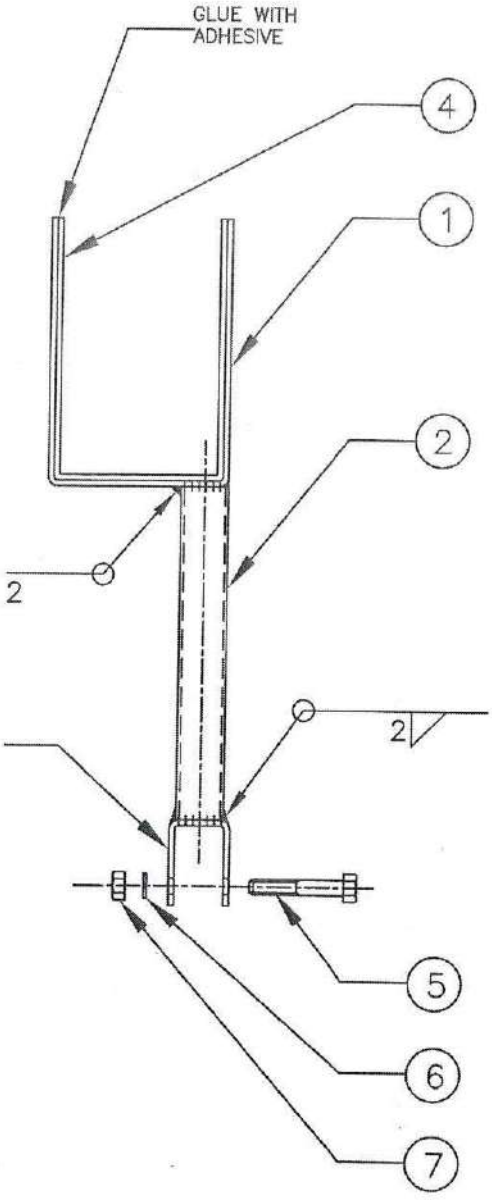
SNo.	REGION	REVISION	DATE	SIGN

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Phool	NOM	COVER PLATE
DRN	Ashish	MTL	SHEET MS CRA GD'0' IS:513 THICK 1mm (AA22)
CHD	Rajan	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	Rajan	DRG No:- TD 2 A 65 U B3	SHEET 1 OF 1
DATE	22.06.15		

105



ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 A 65 W 01	CRUTCH CARRIER	1	
2.	TD 2 A 65 W 02	CARRIER STRUT	1	
3.	TD 2 A 65 W 03	CARRIER CLAMP	1	
4.	TD 2 A 65 W 04	CARRIER PAD	1	
5.	BB 13	HEX HEAD BOLT IS:1363(PART 1) ISO–4016, M8x50–4.6, Zn PLATED	1	
6.	BS 54	SPRING LOCK WASHER 8– IS:6735, PHOSPHATE COATED	1	
7.	BA 02	HEX NUT IS:1363 (PART 3)/ISO 4034–M8–4.6, Zn PLATED	1	

WELDING TOLERENCE:-

DEVIATION FOR NON TOLERANCED DIMENSIONS IN WELDING (ISO:13920)

TOLERANCE FOR LINEAR DIMENSION (B' CLASS)	
2 to 30	±1
Over 30 up to 400	±2
Over 400 up to 1000	±3
Over 1000 up to 2000	±4
Over 2000 up to 4000	±6
Over 4000 up to 8000	±8
Over 8000 up to 12000	±10
Over 12000 up to 16000	±12
Over 16000 up to 20000	±14
Over 20000	±16

TOLERANCE FOR ANGULAR DIMENSION:-	
(i) RANGE FOR NOMINAL SIZE:-	
Up to 400	±0°45'
Over 400 upto 1000	±0°30'
Over 1000	±0°20'
(ii) ROUNDED TOLERANCE:-	
Up to 400	±13mm
Over 400 upto 1000	±9mm
Over 1000	±6mm

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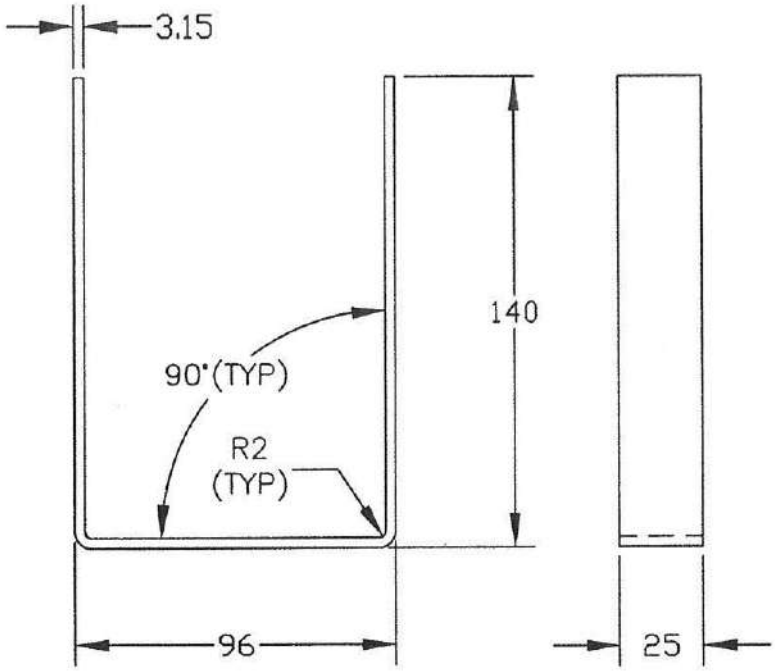
SNo.	REGION	REVISION	DATE	SIGN
01.	---	ANGLE REMOVED	19.02.2020	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	CRUTCH CARRIER ASSY
DRN		MTL	———
CHD		HEAT TREATMENT	
DIM	IN mm	SURFACE TREATMENT	POWDER COATED COLOUR AS APPROVED
SCALE	NTS	DRG No.- TD 2 A 65 W 00	REV 01 / SHEET 1 OF 1
APP	S.DD1		
DATE	19.06.2016		



NOTE:-

1.REMOVE SHARP EDGES & CORNERS.

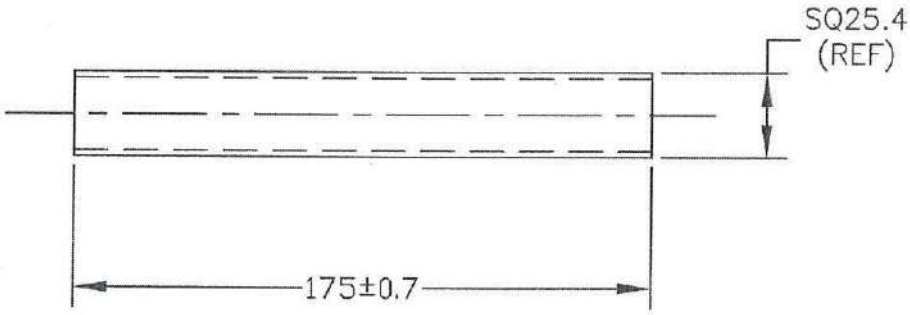
SNo.	REGION	REVISION	DATE	SIGN
1	———	DIM 140 WAS 160	01.09.16	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	CRUTCH CARRIER
DRN		MTL	SHEET MS HRA Gd'O' IS:1079 THICK 3.15mm (AA08)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm — UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	———
APP		DRG No:- TD 2 A 65 W 01	SHEET 1 OF 1
DATE	19.07.2016		

103



NOTE:–

1.REMOVE SHARP EDGES & CORNERS.

SNo.	REGION	REVISION	DATE	SIGN
01.	---	ANGLE REMOVED	19.02.2020	

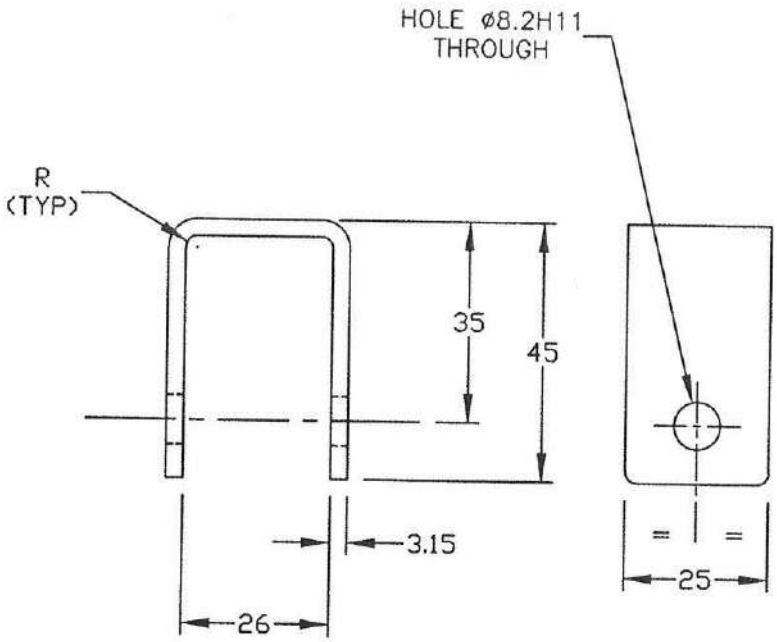
REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DIM.	TOLERANCE		
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			

DGN	Shreekant	NOM	CARRIER STRUT
DRN		MTL	SQ.TUBE MS ERW 25.4X25.4X1.8mm THICK, IS:4923 (AE15)
CHD		TOL	-----
DIM	IN mm	FIN	———
SCALE	NTS		
APP	S.DD1		

102



NOTE:–

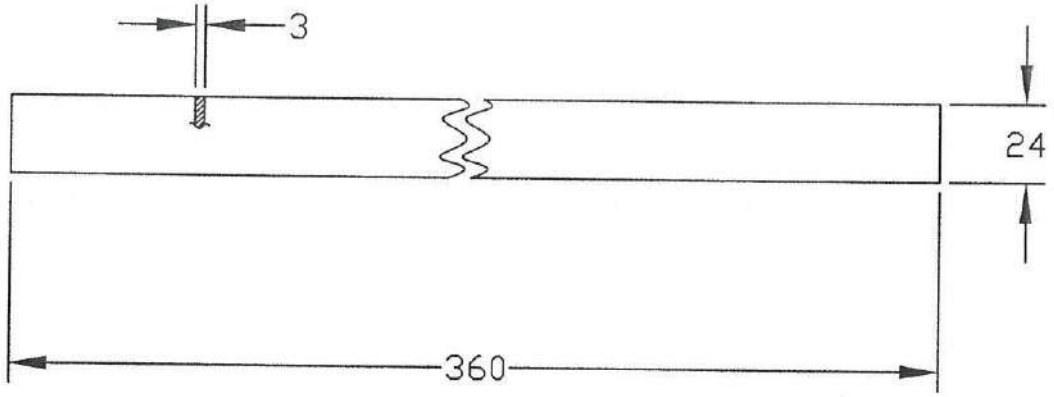
1. REMOVE SHARP EDGES & CORNERS.

SNo.	REGION	REVISION	DATE	SIGN
		REVISIONS		

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	CARRIER CLAMP
DRN	Ashish	MTL	SHEET MS HRA Gd'0' IS:1079 THICK 3.15mm (AA08)
CHD	[illegible]	TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm; UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	———
APP	[illegible]	DRG No:– TD 2 A 65 W 03	SHEET 1 OF 1
DATE	19.07.2016		

(101)



MTL:- AW36:-

ETHAFLEX ETHYLENE VINYLE ACCETATE
CO-POLYMER (R-TYPE Gd R-5A)
FOAM SHEET, THICKNESS 3mm,
DENSITY 150Kg/m³ HARDNESS-35
SHORE 'A' COLOUR CINNAMON

NOTE:-

1.REMOVE SHARP EDGES & CORNERS.

SNo.	REGION	REVISION	DATE	SIGN
1		DIM 360 WAS 400	01.09.16	

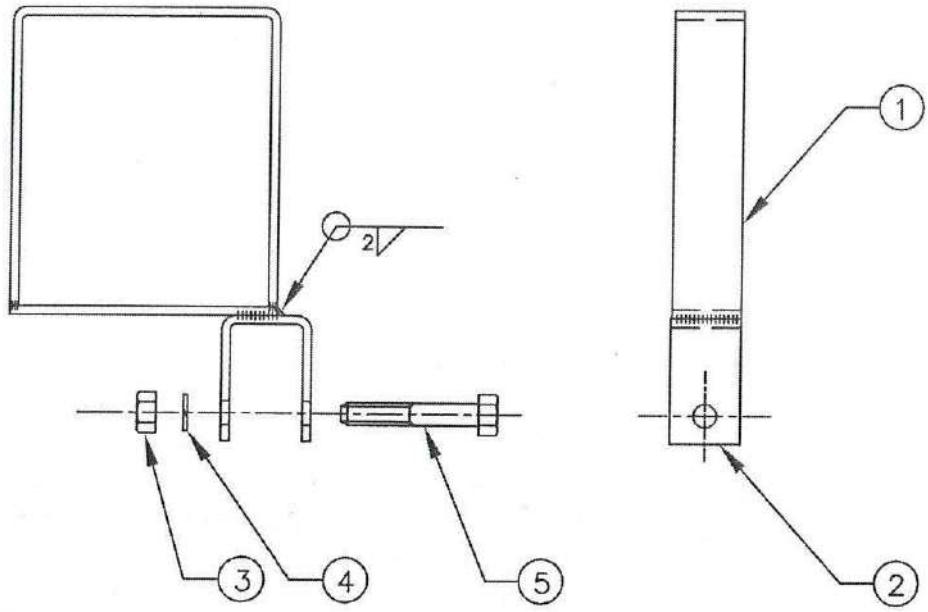
REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	CARRIER PAD
DRN		MTL	INDICATED
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm; UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	———
APP		DRG No:- TD 2 A 65 W 04	SHEET 1 OF 1
DATE	19.07.2016		

(100)

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 A 65 U F0	CRUTCH HOLDER ASSY	1	
2.	TD 2 A 65 W 03	CARRIER CLAMP	1	
3.	BA 02	HEX NUT IS:1363 (PART 3)/ISO 4034–M8–4.6, Zn PLATED	1	
4.	BS 54	SPRING LOCK WASHER 8–IS:6735, PHOSPHATE COATED	1	
5.	BB 13	HEX HEAD BOLT IS:1363(PART 1) ISO–4016, M8x50–4.6, Zn PLATED	1	



NOTE:–

1. DRESS WELDED JOINT.

WELDING TOLERENCE:–

DEVIATION FOR NON TOLERANCED DIMENSIONS IN WELDING (ISO:13920)

TOLERANCE FOR LINEAR DIMENSION ('B' CLASS)	
2 to 30	±1
Over 30 up to 400	±2
Over 400 up to 1000	±3
Over 1000 up to 2000	±4
Over 2000 up to 4000	±6
Over 4000 up to 8000	±8
Over 8000 up to 12000	±10
Over 12000 up to 16000	±12
Over 16000 up to 20000	±14
Over 20000	±16

TOLERANCE FOR ANGULAR DIMENSION:-	
(i) RANGE FOR NOMINAL SIZE:-	
Up to 400	±0°45'
Over 400 upto 1000	±0°30'
Over 1000	±0°20'
(ii) ROUNDED TOLERANCE:-	
Up to 400	±0°13'
Over 400 upto 1000	±0°9'
Over 1000	±0°6'

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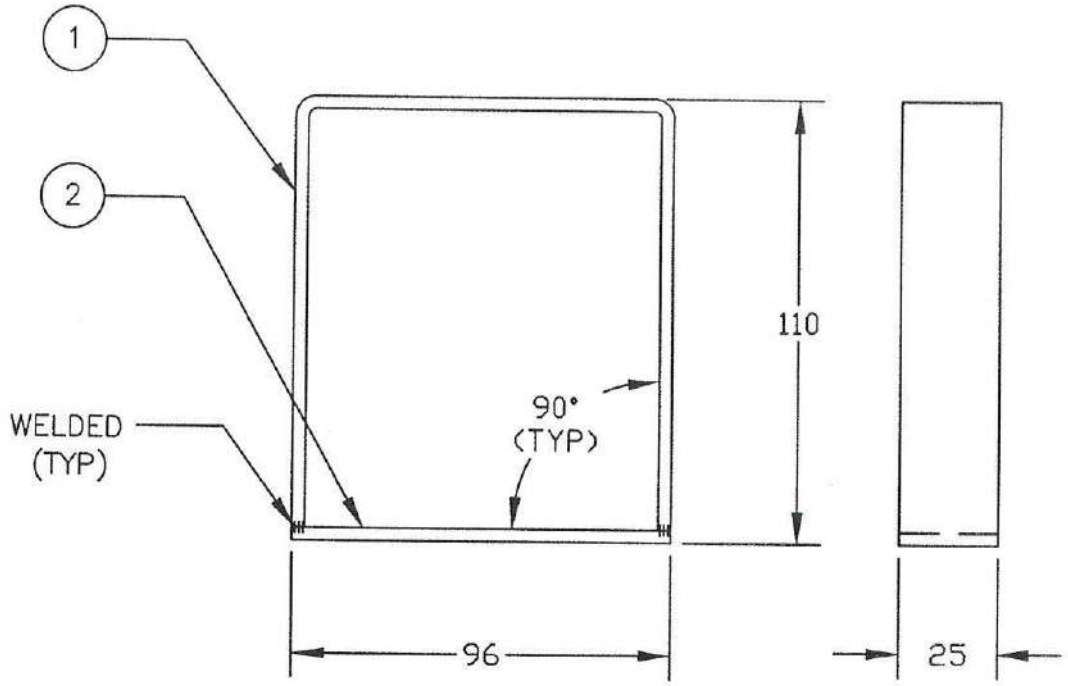
SNo.	REGION	REVISION	DATE	SIGN
01.	---	ANGLE REMOVED	19.02.2020	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	CRUTCH CARRIER ASSY REAR
DRN		MTL	———
CHD		HEAT TREATMENT	
DIM	IN mm	SURFACE TREATMENT	POWDER COATED COLOUR AS APPROVED
SCALE	NTS		
APP	S DD1		

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 A 65 U F1	HOLDER CLAMP	1	
2.	TD 2 A 65 U F2	HOLDER BASE STRIP	1	



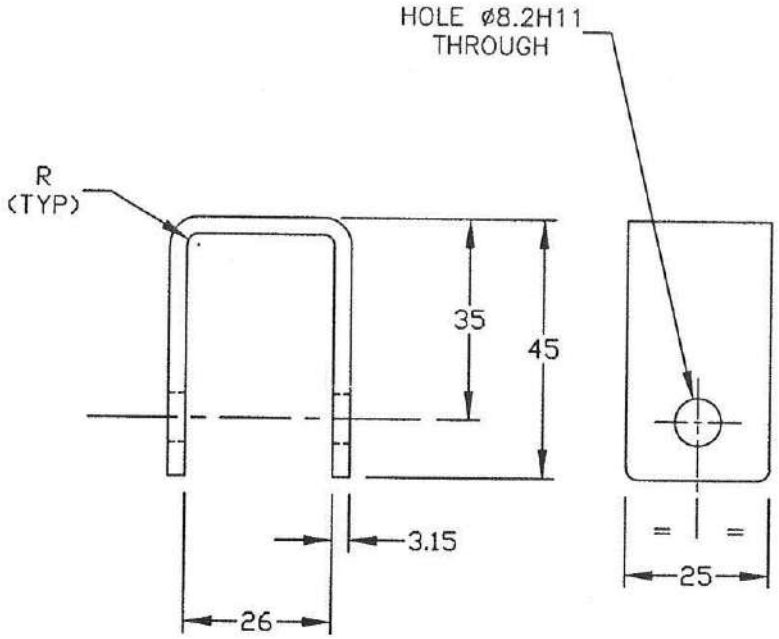
NOTE:–

1. DRESS WELDED JOINTS.

SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	CRUTCH HOLDER ASSY
DRN		MTL	———
CHD		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		DRG No:–	TD 2 A 65 U F0
DATE	19.07.2016	SHEET	1 OF 1



NOTE:–

1. REMOVE SHARP EDGES & CORNERS.

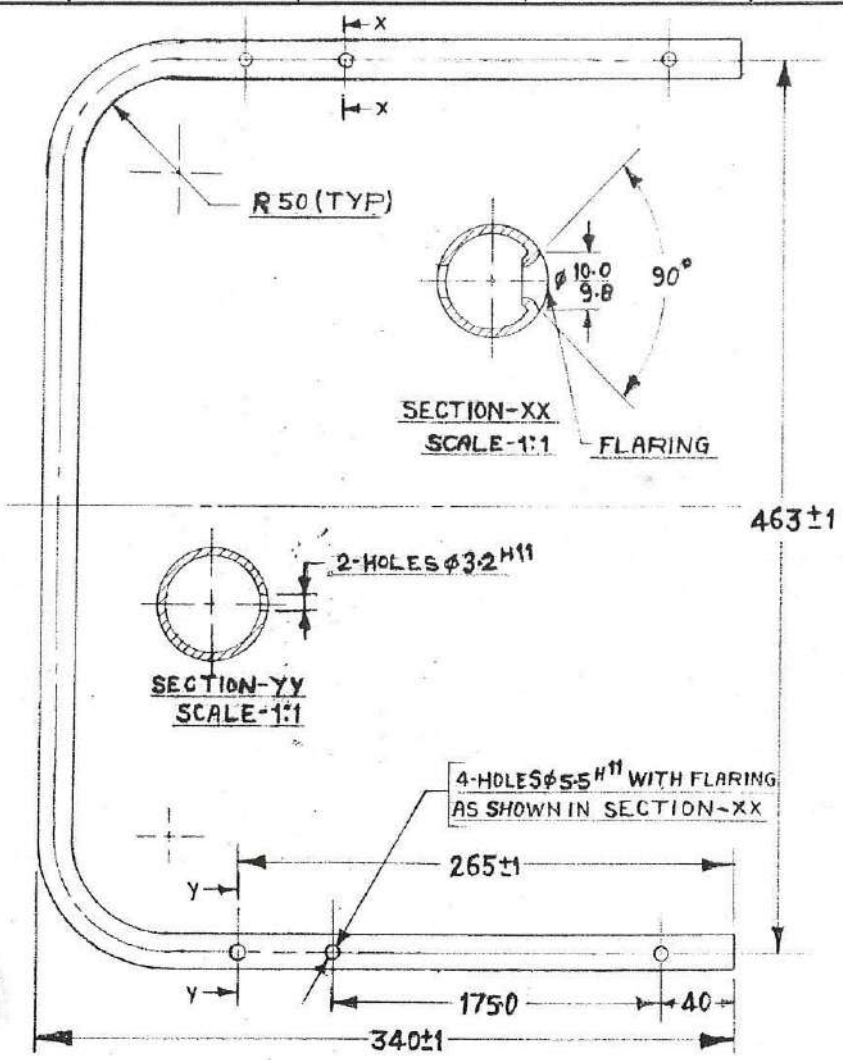
SNo.	REGION	REVISION	DATE	SIGN

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Abhish	NOM	CARRIER CLAMP
DRN		MTL	SHEET MS HRA Gd'0' IS:1079 THICK 3.15mm (AA08)
CHD		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		DRG No:– TD 2 A 65 W 03	SHEET 1 OF 1
DATE	19.07.2016		

(97)



NOTE:—

1. REMOVE SHARP EDGES & CORNERS.

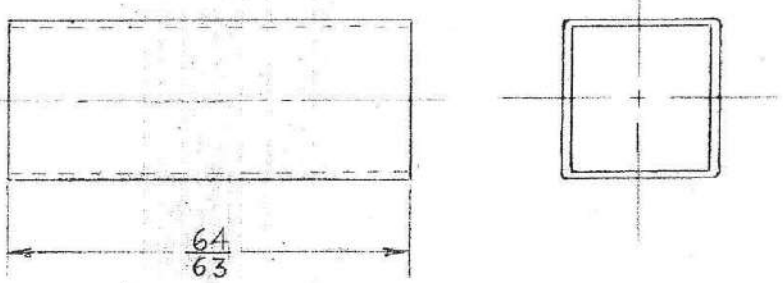
S No.	REGION	REVISION	DATE	SIG.
5	—	DRAWING REDRAWN & ISI MARKED MATERIAL DELETED.	14-09-05	RKS
4	—	ISI MARKED MATERIAL ADDED	27-2-04	Sd.

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPN OF INDIA
KANPUR

DGN	Rabwinod	NOM	TUBE ARM REST
DRN	Gonesh	MTL	STEEL TUBE ERW C1 OD 19.05 mm THICK 1.0 mm, IS: 2039 ANNEALED, (AF 14)
CHD	Singh	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	~		
APP	RKShw	DRG No.	TD 2 A 55 B 01
DATE	10.05.90	SHEET	1 OF 1

01 K 8 144



NOTE :-

1. REMOVE SHARP EDGES.

S No.	REGION	REVISION	DATE	SIG.

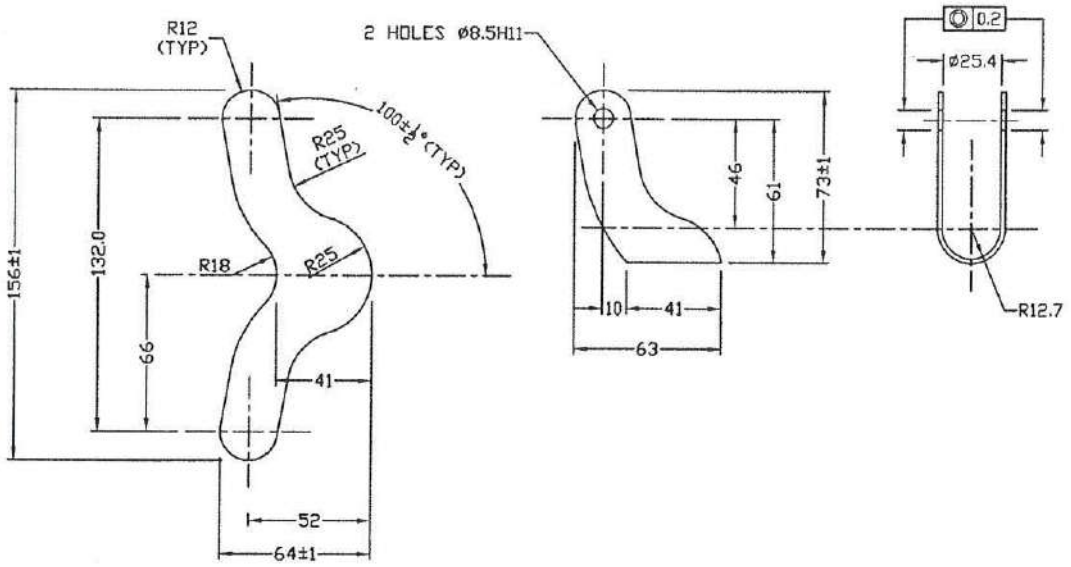
REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPN OF INDIA
KANPUR

DGN		NOM	SPACER TUBE
DRN		MTL	COLD FORMED SQ. HOLLOW SECTION 25.4x25.4x1.22 THK. (AE12)
CHD		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	1:1		
APP		DRG No.	TD 2A 55 K 02
DATE	10.5.90	SHEET	1 OF 1

01 K 0 154

(95)



NOTE:-

1. REMOVE SHARP EDGES & CORNERS.
2. ALL TYP DIMENSIONS TO BE IDENTICAL ON BOTH SIDES ON THE BLANK FOR SYMMETRY & PROPER ALIGNMENT AFTER BENDING.
3. 2-HOLES ø8.5H11 CAN BE DONE AFTER WELDING OF SIDE TUBE WITH THIS CLAMP TO MAINTAIN CONCENTRICITY AS SHOWN IN TD 2 N 85 B00 & TD 2 N 86 B00.

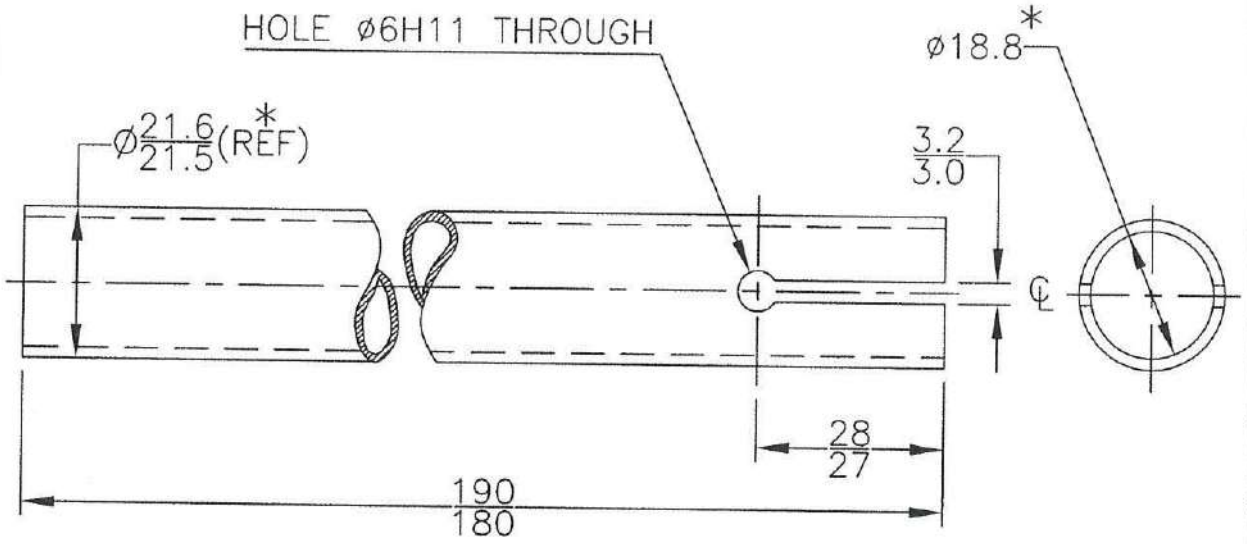
SNo.	REGION	REVISION	DATE	SIGN
2	———	REDESIGN & REDRAWN	28.06.16	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	CLAMP
DRN	Ashish	MTL	SHEET MS CRA Gd '0',IS:513 THICK 2mm (AA 27)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm — UNLESS SPECIFIED
DIM	INmm		
SCALE	NTS	FIN	———
APP	Sal/DD1		
DATE	27.07.12	DRG No:- TD 2 N 85 B 02	SHEET 1 OF 1

01 K 6 377



NOTE:–

1. REMOVE SHARP EDGES & CORNERS
2. IF READYMADE TUBE OF OD 21.6/21.5 & ID 18.8 AVAILABLE IS ALSO ACCEPTABLE AS AN ALTERNATE
3. WEIGHT–110gms(APPROX)

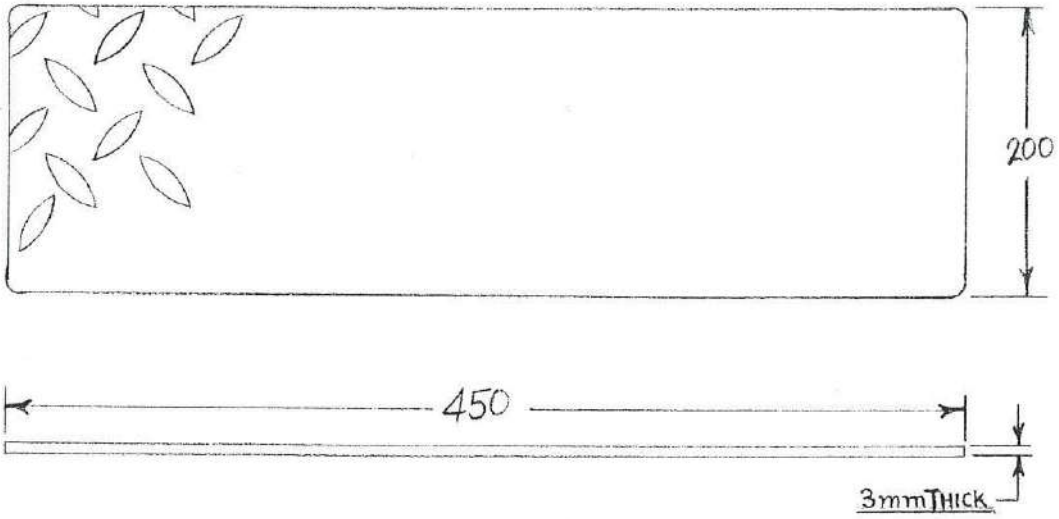
SNo.	REGION	REVISION	DATE	SIGN
5	—	DRAWING REDRAWN	18 3 13	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	CENTRE TUBE
DRN		MTL	STEEL TUBE ERW C1 OD22.23mm, THK 1.6mm IS:2039 ANNEALED(AF 13)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm; UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	—
APP		DRG No:– TD 2 C 98 A B1	SHEET 1OF1
DATE	26.12.1991		

01 K 8 225



MTL:— AG 09 :—
STEEL CHEQUERED PLATE SIZE-450 X 200mm
MADE OUT OF AD 75 (STEEL CHEQUERED PLATE
THICKNESS 3mm EXCLUDING RAISED PORTION,
IS:3502

NOTE :—
1. REMOVE SHARP EDGES & CORNERS.

S No.	REGION	REVISION	DATE	SIG.
REVISIONS				

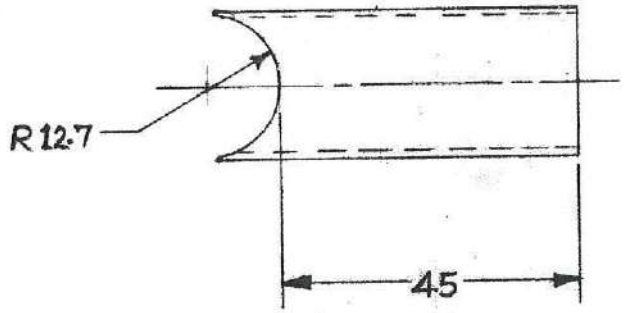
ARTIFICIAL LIMBS MANUFACTURING CORPN OF INDIA
KANPUR

DGN		NOM	FOOTREST
DRN		MTL	INDICATED
CHD	5.11.11	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		DRG No.	TD2C 95A20
APP		SHEET OF	
DATE	24.12.11		

01 | K | 7 | 114

AF 60

(92)



NOTE.
1. REMOVE SHARP EDGES

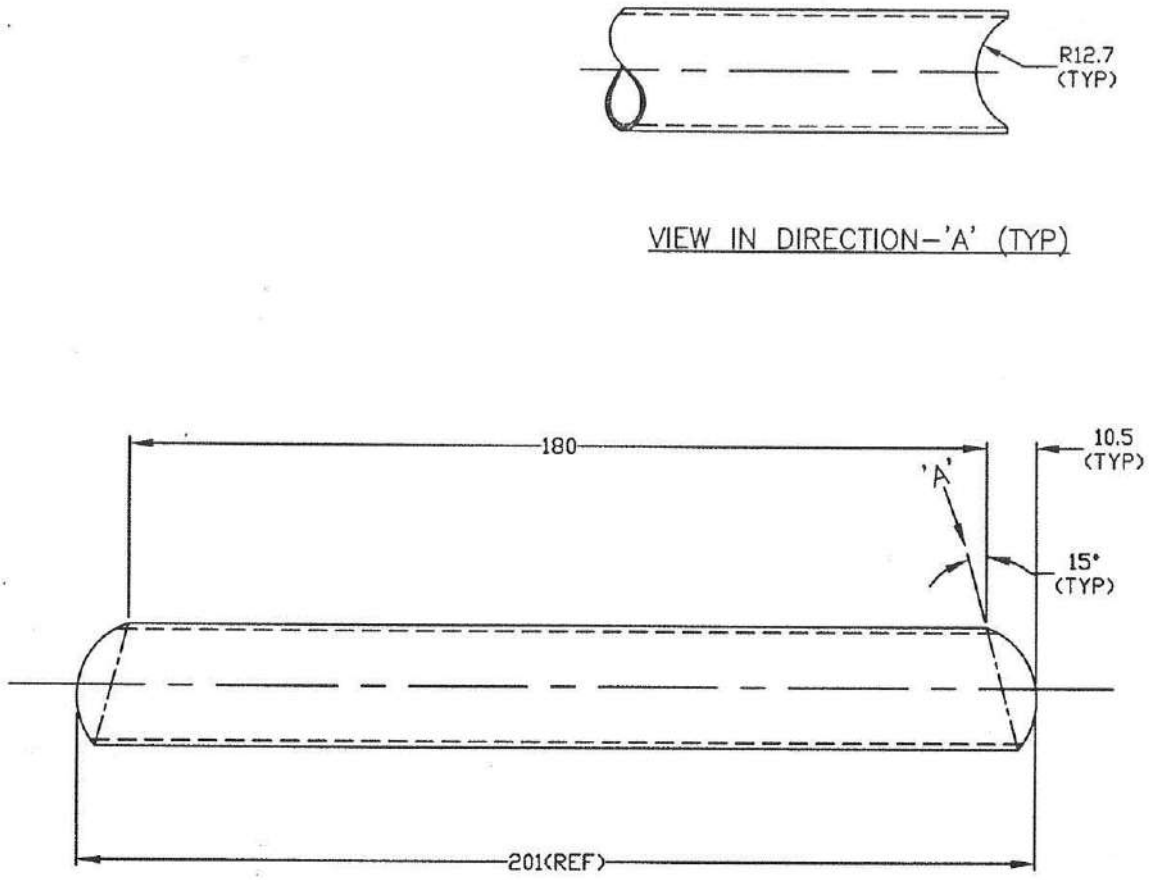
S No.	REGION	REVISION	DATE	SIG.
4	A-1	ISI MARKED MATERIAL DELETED.	14.3.94	RL
3	A-2	ISI MARKED MATERIAL ADDED	27.2.94	RL
2	—	DRG. No. TD 2 A 60 AA 5 WAS TD 2 A 60 A 05	7.6.94	
1	A-2	MTL-AF 60 & DIM R12.7 WERE AF 13 & R 11	9.3.94	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPN OF INDIA
KANPUR

DGN		NOM	STIFFNER
DRN		MTL	STEEL TUBE ERW C1, OD 25.4 mm, THICK 1.25 mm, IS:2039, ANNEALED (AF 60)
CHD		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	1:1		
APP		DRG No.	TD 2 A 60 A A5
DATE	1.1.94	SHEET	1 OF 1

01 | J | 3 | 018



NOTE:-

1. REMOVE SHARP EDGES & CORNERS.

SNo.	REGION	REVISION	DATE	SIGN
5	——	DIM 180 WAS 190 & DIM 201(REF) ADDED	04.08.17	

R E V I S I O N S

TOLERENCE:–

DEVIATION FOR NON TOLERANCED DIMENSIONS (ISI:2102 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 to1000	±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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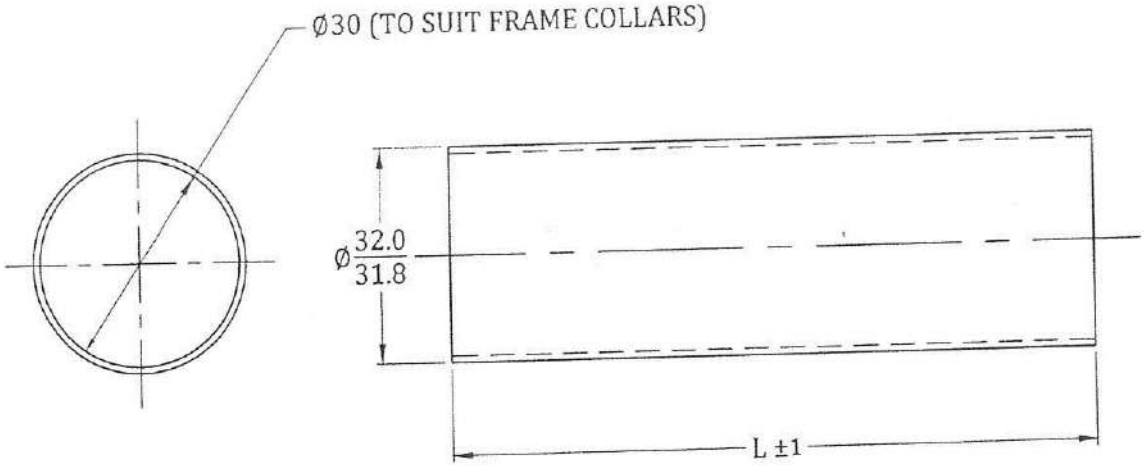
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA
KANPUR

DGN	Abish	NOM	FRONT SUPPORT TUBE
DRN	Abish	MTL	STEEL TUBE ERW C1 OD25.4, THK1.25mm IS:2039, ANNEALED(AF 60)
CHD	[illegible]	HEAT TREATMENT	——
DIM	IN mm	SURFACE TREATMENT	——
SCALE	NTS		
APP	Sol/DD	DRG No:-	TD 2 A 60 A A4
DATE	01.01.1994	SHEET	1OF1

SL. No	DRG. No	L ±1	WEIGHT
1	L B 66	128	84 gms.
2	L B 86	146	100. gms.



NOTE:-
1. REMOVE SHARP EDGES & CORNERS.
2. THIS PIPE IS READILY AVAILABLE AT CYCLE SHOPS AS SPARE (FACE PIPE)

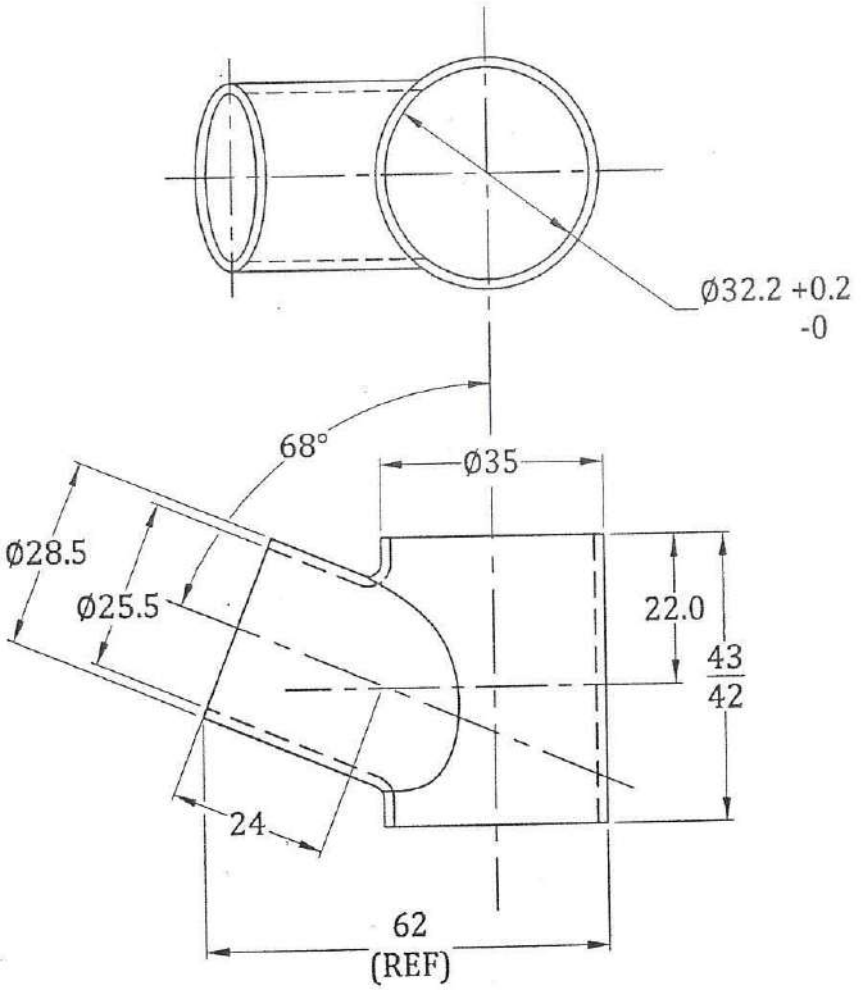
SNo.	REGION	REVISION	DATE	SIGN
5	---	DRAWING REDRAWN	24 12 12.	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	BICYCLE HEAD TUBE (FACE PIPE)
DRN		MTL	M. S. PIPE
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm; UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	
APP		DRG No:-	L B 66, L B 86
DATE	09-05-94		SHEET 1OF1

06 K 6 072



NOTE:-

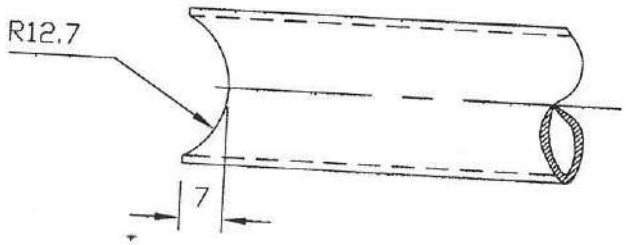
1. ALL DIMENSIONS ARE FOR REFERENCE ONLY.
2. THIS BICYCLE TOP LUG IS READILY AVAILABLE AT CYCLE SHOPS AS SPARE.
3. WEIGHT - 65 TO 72 gms.

SNo.	REGION	REVISION	DATE	SIGN
3	F - 2	Ø32.2 +0.2 WAS Ø32.0 -0	18.04.17	

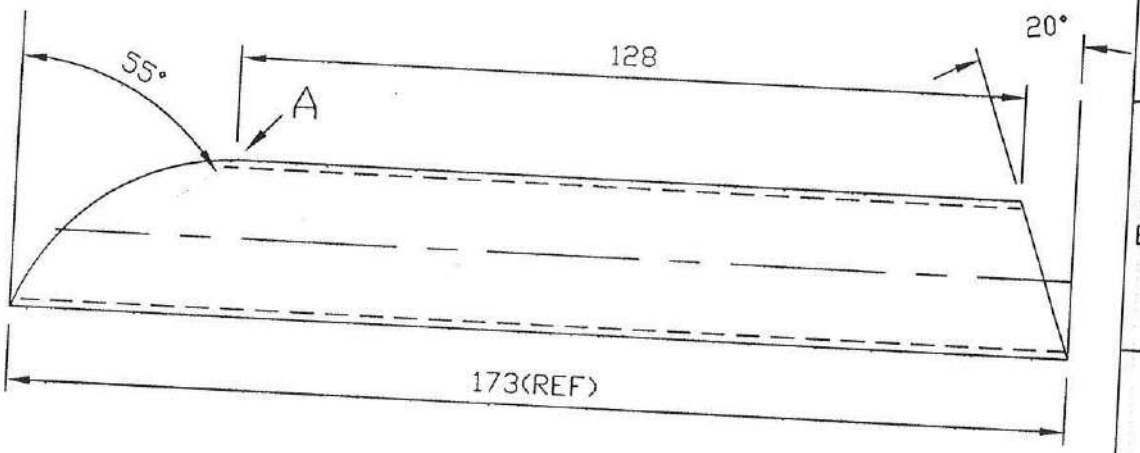
REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	BICYCLE TOP LUG
DRN		MTL	M.S.
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm; UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	——
APP	SA/DDI	DRG No:-	LB 89
DATE	09.05.1994		SHEET 1OF1



VIEW IN DIRECTION–'A'



NOTE:–

1. REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN
6	—	MTL AF 16 WAS AF60	25.08.14	
5	—	DRAWING REDRAWN	3.11.12	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

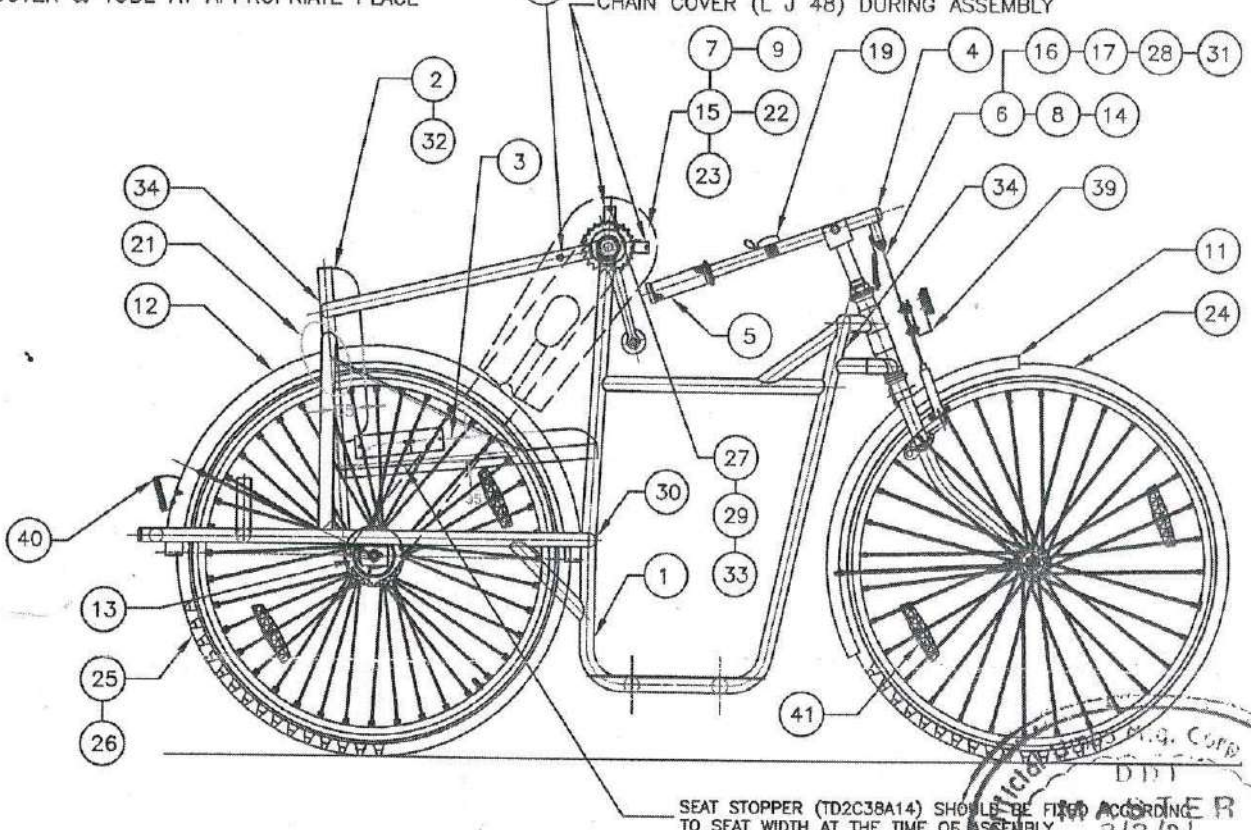
DGN		NOM	REINFORCING TUBE
DRN		MTL	STEEL TUBE ERW C1 OD25.4mm, THK 1.6mm IS:2039 ANNEALED(AF16)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm — UNLESS SPECIFIED
DIM	IN mm	FIN	—
SCALE	NTS		
APP	SD/DD1		
DATE	01.01.94	DRG No:– TD 2 A 60 A A2	SHEET 1OF1

Artificial Limbs Mfg. Corp. of India — PASSED (Date ..... Sig .....) KANPUR

01 J 3 016

HOLE ø3.5H11 AT THE TIME OF ASSY ON CHAIN COVER & TUBE AT APPROPRIATE PLACE

2 MOUNTING HOLE ø5.5 ON CHAIN COVER (L J 48) DURING ASSEMBLY



SEAT STOPPER (TD2C38A14) SHOULD BE FIXED ACCORDING TO SEAT WIDTH AT THE TIME OF ASSEMBLY.

DIMENSIONS OF TRICYCLE HAND PROPELLED

NOMENCLATURE	SIZE (IN mm)
OVERALL LENGTH	1960±50
OVERALL WIDTH	890±25
OVERALL HEIGHT	990±25
WIDTH OF FOOT REST	320±10
LENGTH OF FOOT REST	600±10
CLEARANCE OF FOOT REST FROM GROUND	145±25
SEAT LENGTH	600±10
SEAT WIDTH	430±10
BACK HEIGHT FROM SEAT	320±10
LENGTH OF STEERING HANDLE	420±10
HEIGHT OF REAR WHEEL SUPPORTING FRAME	385±10
LEVERAGE OF HANDLE	5:1

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARK
1.	TD 2 C 38 A 00	FRAME ASSY.	1	
2.	TD 2 C 38 B 00	BACK REST ASSY.	1	
3.	TD 2 C 38 C 00	SEAT ASSY.	1	
4.	TD 1 N 23 0 09	END PLUG	1	
5.	LA 24	HAND GRIP	3	
6.	LA 61	BICYCLE BRAKE SHOE (PAIR OF R/L) WITH HOLDER & RUBBER	1 PAIR	
7.	LA 67	SPROCKET 22 TEETH	2	
8.	LA 81	SPRING TENSION	1	
9.	LC 08	COTTER PIN WITH NUT & WASHER IS:1282	4	
~~10.~~	~~LD 13~~	~~REFLECTOR~~	~~2~~	DELETED
11.	LC 58	BICYCLE MUDGUARD, 24G (FRONT) FOR 28"x1¾" WHEEL,PAINTED BLACK COLOUR, GLOSSY FINISH WITH STAY WIRE ø4mm ,ISI MARKED, IS:6218 WITH ALIMCO MONOGRAM	1	
12.	LC 59	BICYCLE MUDGUARD, 24G (REAR) FOR 28"x1¾" WHEEL,PAINTED BLACK COLOUR, GLOSSY FINISH WITH STAY WIRE ø4mm ,ISI MARKED, IS:6218 WITH ALIMCO MONOGRAM	2	
13.	LC 67	BICYCLE CHAIN ADJUSTER ASSY	4	
14.	LC 70	DRAW BOLT WITH NUT & WASHER	2	
15.	LC 75	PEDAL CRANK ASSY 8"	2	
16.	LC 86	BRAKE CHIMTI FOR FRONT WHEEL(RICKSHAW)	1	
17.	LC 89	BRAKE ROD 7" LONG (RICKSHAW)	1	
~~18.~~	~~LD 37~~	~~TOOL KIT~~	~~1~~	DELETED
19.	LD 44	BICYCLE BELL	1	
~~20.~~	~~LF 58~~	~~ARM REST WITH SCREW~~	~~2~~	DELETED
21.	LF 82	CABLE LOCK WITH KEYS, LENGTH 22"(560mm) MIN & ROPE WIRE ø4.5mm (MIN), COVERED WITH PVC SLEEVE	1	
22.	L J 48	BICYCLE FULL HALF CHAIN COVER	2	
23.	L B 67	BICYCLE CHAIN,129 LINKS,SIZE-12.7x3.3mm WITH LOCK, ISO CHAIN No. 081 OF IS:2403 BREAKING LOAD 800daN Min.	2	
24.	L J 53	BICYCLE FRONT WHEEL ASSY (28"X1½"), WITH 32 HOLES	1	
25.	L J 55	BICYCLE REAR WHEEL ASSY (28"X1¾") WITH 40 HOLES (RIGHT)	1	
26.	L J 56	BICYCLE REAR WHEEL ASSY (28"X1¾") WITH 40 HOLES (LEFT)	1	
27.	BA 08	HEX NUT IS:1363 (PART 3)/ ISO 4034 M5-4.6 Zn PLATED.	08	
28.	BA 54	HEX THIN NUT IS:1364(PART 4)/ISO-4035 M4-St,Zn PLATED	1	
41.	TD 2 C 38 E B0	SPOKE REFLECTOR	8	
40.	TD 2 C 38 E A0	REAR REFLECTOR	2	
39.	TD 2 C 38 E 00	FRONT REFLECTOR ASSY.	1	
38.	BQ 81	TAPPING SCREW IS:7173/ISO:1481-St &x38-C, Zn PLATED	2	
~~37.~~	~~BR 71~~	~~POP RIVET ø4 x 6 mm (AL.)~~	~~4~~	DELETED
~~36.~~	~~LD 87~~	~~LABEL IS:9988 (TRICYCLE) 62 x 41 mm~~	~~1~~	DELETED
~~35.~~	~~TD 2 C 38 0 01~~	~~LABEL~~	~~1~~	DELETED
34.	TD 2 A 07 0 05 OR LE 43	LABEL-SYMBOL OF ACCESSIBILITY	2	
33.	BS 28	PUNCHED WASHER B5.5,IS:2016 MS, Zn PLATED	8	
32.	BQ 74	SLOTTED PAN HEAD TAPPING SCREW, IS:7173-ISO-1481-St 4.8x19-C	6	
31.	BQ 32	SLOTTED PAN HEAD SCREW IS:6101/ISO 1580-M4x12-4.8, Zn PLATED	1	
30.	BF 77	SLOTTED CSK FLAT HEAD SCREW, IS:1365/ISO-2009-M5x40-4.8, Zn PLATED	4	
29.	BF 61	SLOTTED CSK FLAT HEAD SCREW, IS:1365/ISO 2009-M5x12-4.8, Zn PLATED	4	

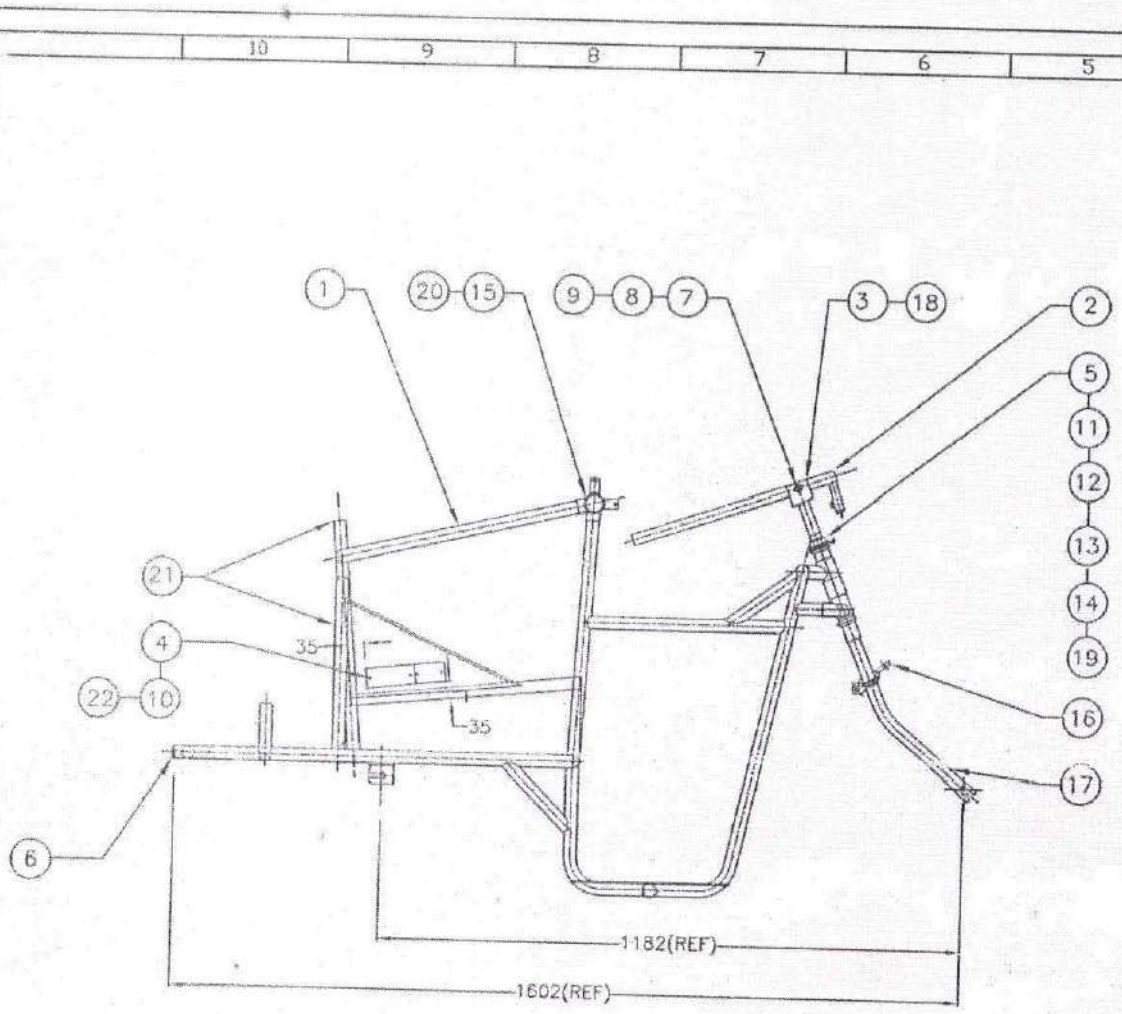
SNo.	REGION	REVISION	DATE	SIGN
06.	–	ITEM No. 39, 40 & 41 ADDED & ITEM No. 10 DELETED	03.03.2021	
05.	–	ITEM No. 23 LB 67 WAS LD 25, ITEM No.35,36 &37 DELETED. ITEM No.29 BF61 QTY. 4 WAS 2 & ITEM No.36 BQ 81 QTY. 2 WAS 1. NOTE DELETED.	18.09.2019	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DRN		NOM	TRICYCLE HAND PROPELLED
CHD		MTL	—
DIM	IN mm	HEAT TREATMENT	—
SCALE	NTS	SURFACE TREATMENT	—
PROJ.			
APP		DRG No:- TD 2 C 38 0 00	SHEET 1 OF 1
DATE	14.08.2017		

Artificial Limbs M.F. Corp. of India
DIET
Date 3/3/21
Sig
KANPUR.



Sl. No.	DRAWING No.	NOMENCLATURE	QTY.	REMARK
1	TD 2 C 38 A A0	FRAME ASSY	1	
2	TD 2 C 38 A B0	HANDLE ASSY	1	
3	TD 2 C 38 A C0 OR TD 2 C 38 A D0	CENTRE TUBE ASSY	1	
4	TD 2 C 38 0 01	LABEL	1	
5	TD 2 C 98 A 23	LAMP BRACKET	1	
6	TD 2 C 98 0 04	PLUG	2	
7	BA 02	HEX NUT -IS:1363(PART 3) ISO 4034 M8-4.6, Zn PLATED	1	
8	BB 13	HEX HEAD BOLT-IS:1363(PART1) ISO-4016, M8x50-4.6, Zn PLATED	1	
9	BS 45	PUNCHED WASHER A 9 mm, IS:2016 MS, Zn PLATED	2	
10	BR 71	POP RIVET 4x6 AL	4	
11	LA 66	BICYCLE BOTTOM & TOP HEAD BALL RACE⅛"(SET OF TWO) 16G,BCP, IS:2973	SET OF 2	
12	LB 52	BICYCLE CROWN BALL RACER ⅛"	SET OF 3	
13	LB 56	BICYCLE TOP HEAD SCREWED RACER ⅛"	1	
14	LB 57	BICYCLE TOP HEAD LOCK NUT	1	
15	LB 98	BOTTOM AXLE ASSY	2	
16	LC 96	BRAKE CLIP(R/L) RICKSHAW	1 PAIR	
17	LB 87	BICYCLE FRONT FORK FOR 28"x1½" WHEEL ISI MARKED, IS:2061 WITH ALIMCO MONOGRAM	1	
18	LJ 46 OR LB 97	BICYCLE HANDLE TIGHTNER BOLT ASSY OR BICYCLE HANDLE TIGHTNER ASSY 19 TPI	1 SET 1 SET	
19	HK 02	FREE BALL ⅛", IS:2898, STEEL	62	
20	HK 06	FREE BALL ¼", IS:2898, STEEL	44	
21	EH 43	FLUORESCENT (RADIUM) TAPE-1"WIDE WITH PAPER BACKING,RED COLOUR	1.5 Mtr.	
22	LD 97	LABEL-IS:8088(TRICYCLE) 62 x 41 mm	1	

NOTE:-

1. ITEM No. 4 & 22 TO BE RIVETED BY ITEM No.10 ON SIDE GUARD (TD 2 C 38 A 15) RIGHT SIDE ONLY.
2. STICK ITEM No. 21 APPROPIATE PLACES AS SHOWN.

SNo.	REGION	REVISION	DATE	SIGN
02	D–9	ITEM No. 22 ADDED & ITEM NO.10 QUANTITY 4 WAS 2.	18.09.2019	
01	G–4	TD 2 C 38 A D0 added at item No.3 as an alternate	28.05.2018	

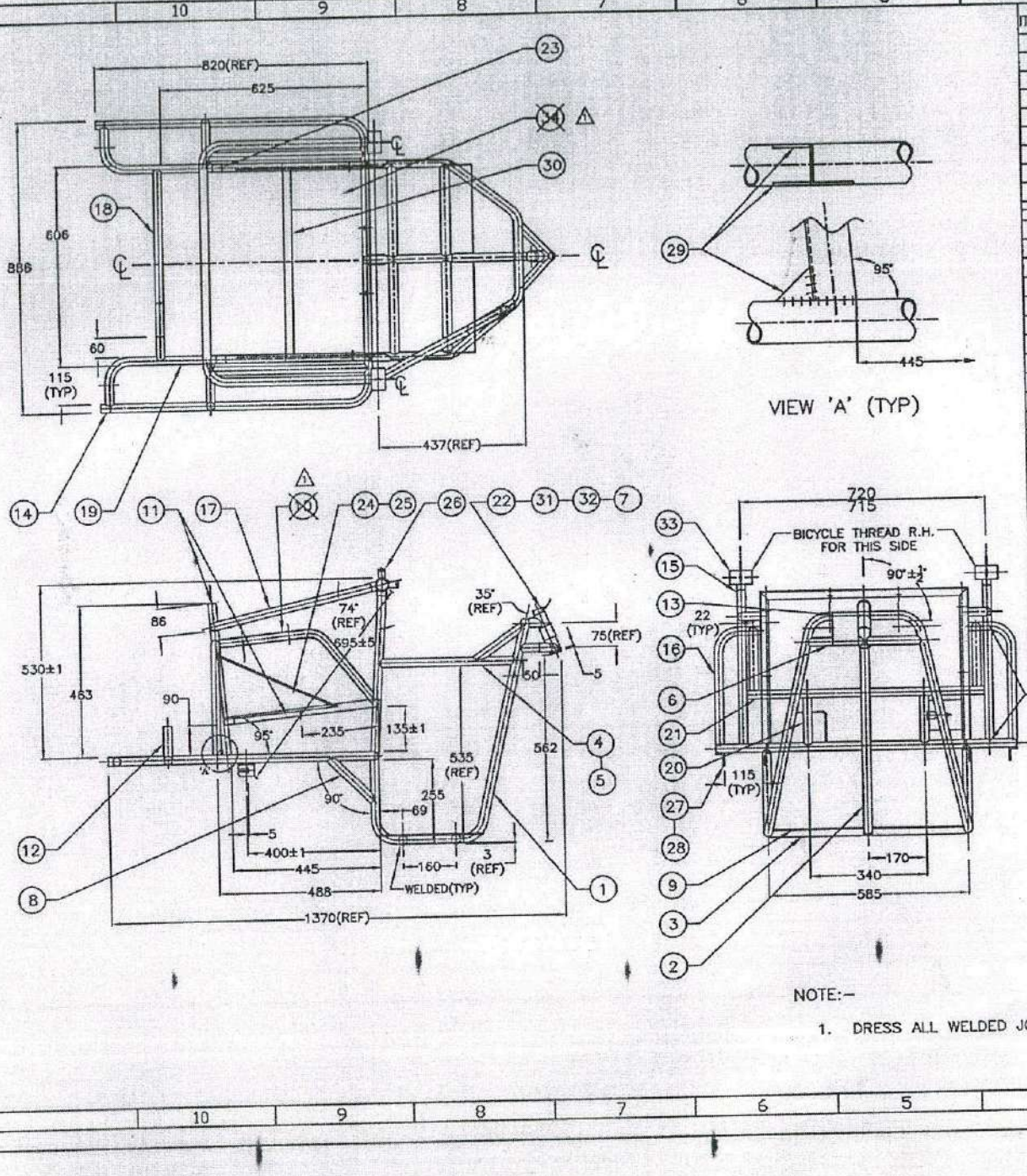
REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	FRAME ASSEMBLY
DRN	Vaishali	MTL	
CHD		HEAT TREATMENT	
DIM	IN mm	SURFACE TREATMENT	
SCALE	NTS		
APP			
DATE	12.08.2017	DRG No:-TD 2 C 38 A 00	Rev 02

SHEET 1 OF 1

98



ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 C 38 A A1	FOOT REST TUBE	01	
2.	TD 2 C 38 A A2	MIDDLE FOOT REST TUBE	01	
3.	TD 2 C 38 A A3	FOOT REST SUPPORT TUBE	04	
4.	TD 2 C 38 A A4	SIDE FRAME SUPPORT TUBE	01	
5.	TD 2 C 38 A A5	SIDE FRAME STIFFENER	01	
6.	TD 2 C 38 A A6	FACE PIPE STIFFENER	02	
7.	TD 2 C 38 A A7	STIFFENER	01	
8.	TD 2 C 38 A A8	REINFORCING TUBE	02	
9.	TD 2 C 38 A A9	FOOT REST	01	
~~10.~~	~~TD 2 C 38 A 01~~	~~TUBE ARM REST~~	~~02~~	
11.	TD 2 C 38 A 02	SEAT SUPPORT	02	
12.	TD 2 C 38 A 03	CRUTCH HOLDER	01	
13.	TD 2 C 38 A 04	PLATE FOR ACCESSIBILITY	01	
14.	TD 2 C 38 A 05	REAR LOOP	01	
15.	TD 2 C 38 A 06	VERTICAL SUPPORT	02	
16.	TD 2 C 38 A 07	LOOP SUPPORT TUBE	02	
17.	TD 2 C 38 A 08	SIDE SUPPORT TUBE	02	
18.	TD 2 C 38 A 09	REAR CROSS MEMBER	01	
19.	TD 2 C 38 A 10	REAR LOOP MEMBER	02	
20.	TD 2 C 38 A 11	SEAT STIFFENER	02	
21.	TD 2 C 38 A 12	STIFFENER	02	
22.	TD 2 C 38 A 13	SPACER TUBE	01	
23.	TD 2 C 38 A 14	SEAT STOPPER	02	
24.	TD 2 C 38 A 15	SIDE GUARD (RIGHT)	01	
25.	TD 2 C 38 A 16	SIDE GUARD (LEFT)	01	
26.	TD 2 C 38 A 17	HOLDER CHAIN COVER	04	
27.	TD 2 C 98 A 13	BRACKET RIGHT	02	
28.	TD 2 C 98 A 14	BRACKET LEFT	02	
29.	TD 2 C 98 A 21	BACKREST STIFFENER	04	
30.	TD 2 C 98 J B1	SEAT BASE SUPPORT	01	
31.	LB 86	BICYCLE HEAD TUBE(FACE PIPE)	01	
32	LB 89	BICYCLE TOP LUG	02	
33	LB 99	BICYCLE BOTTOM BRACKET	02	
~~34~~	~~L J 45~~	~~TOOL BOX~~	~~01~~	

NOTE:-

1. DRESS ALL WELDED JOINTS.

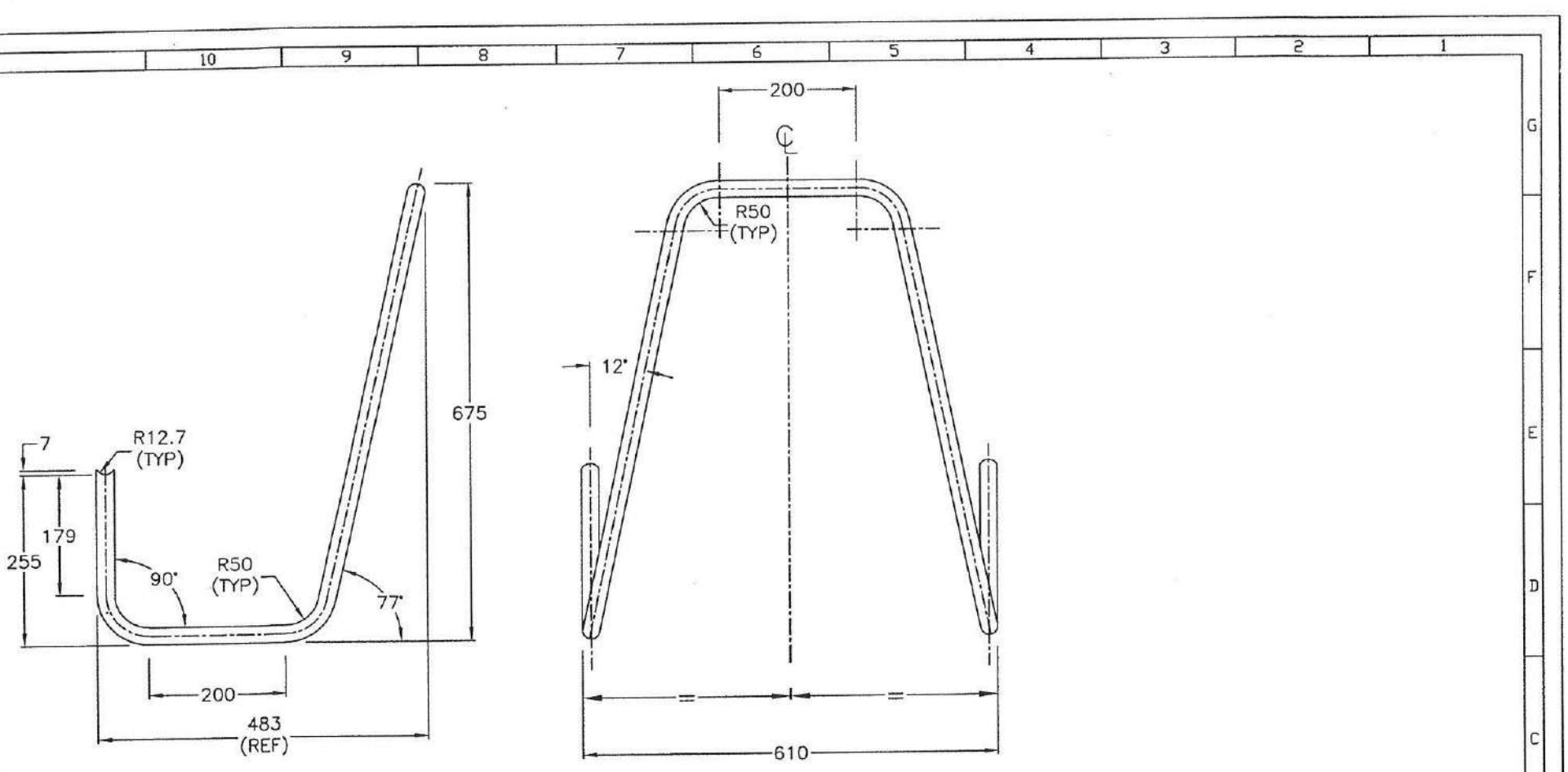
SNo.	REGION	REVISION	DATE	SIGN
01.	F-9	ITEM NO 10&34 HAS BEEN DELETED	13.05.2019	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	FRAME ASSEMBLY
DRN		MTL	—
CHD		HEAT TREATMENT	—
DIM	IN mm	SURFACE TREATMENT	POWDER COATED COLOUR AS COLOURED
SCALE	NTS	DRG No:- TD 2 C 38 A A0	SHEET 1 OF 1
APP			
DATE	11.08.2017		

58



NOTE:-

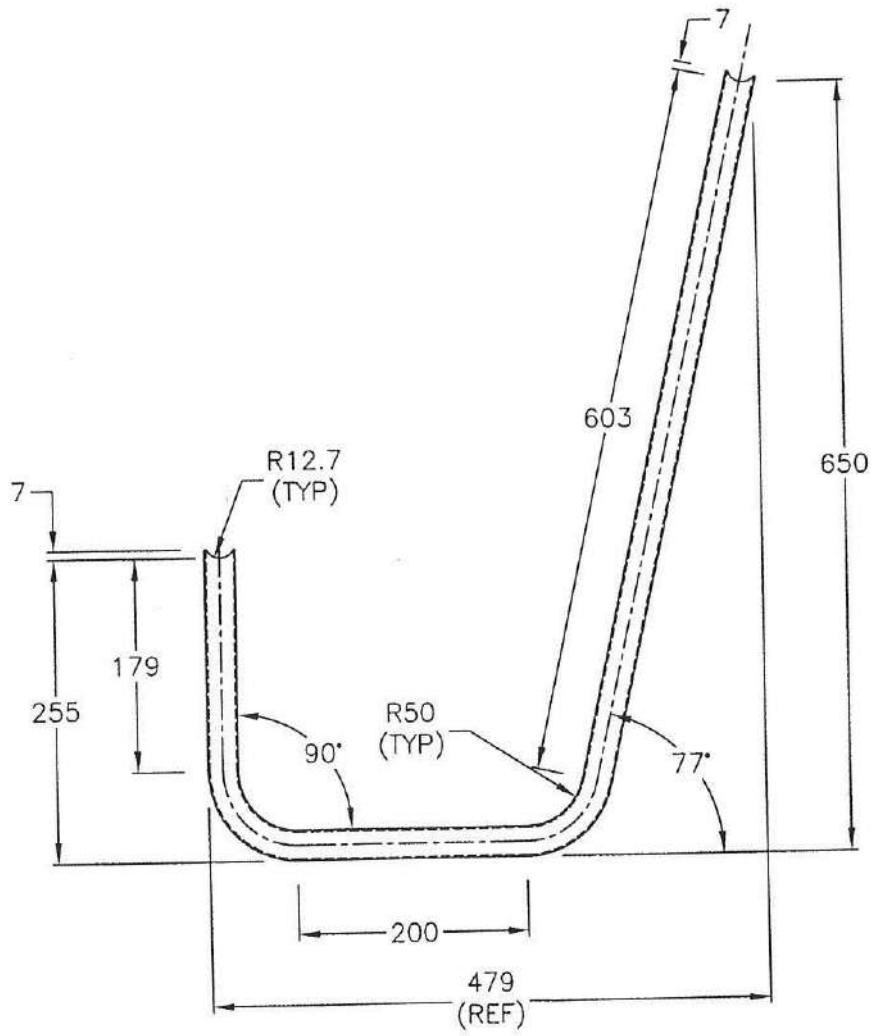
1. REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN
REVISIONS				

ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR

DGN		NOM	FOOT REST TUBE
DRN		MTL	STEEL TUBE ERW C1 OD25.4mm, THICK 1.63mm IS:2039 ANNEALED (AF16)
CHD		HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS	DRG No:- TD 2 C 38 A A1	SHEET 1 OF 1
APP			
DATE	05.06.2017		

84



NOTE:-

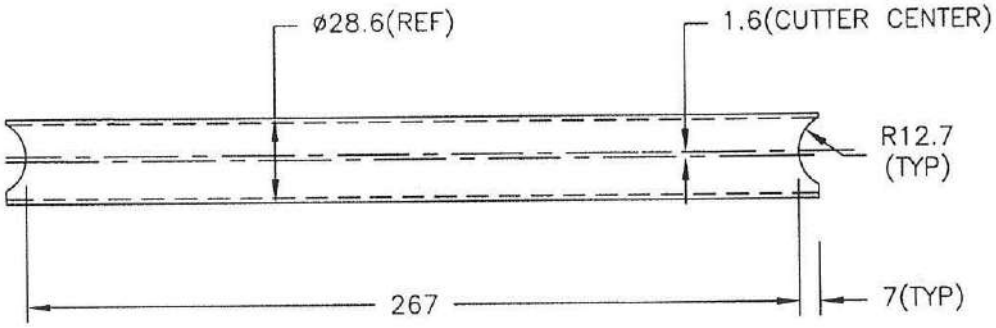
1. REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	MIDDLE FOOT REST TUBE
DRN		MTL	STEEL TUBE ERW C1 OD25.4mm, THICK 1.63mm IS:2039 ANNEALED (AF16)
CHD		HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS	DRG No:-	TD 2 C 38 A A2
APP			SHEET 1OF1
DATE	05.08.2017		



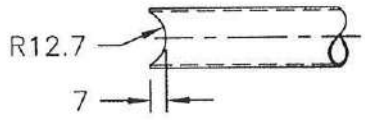
NOTE:-

1. REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN
R E V I S I O N S				

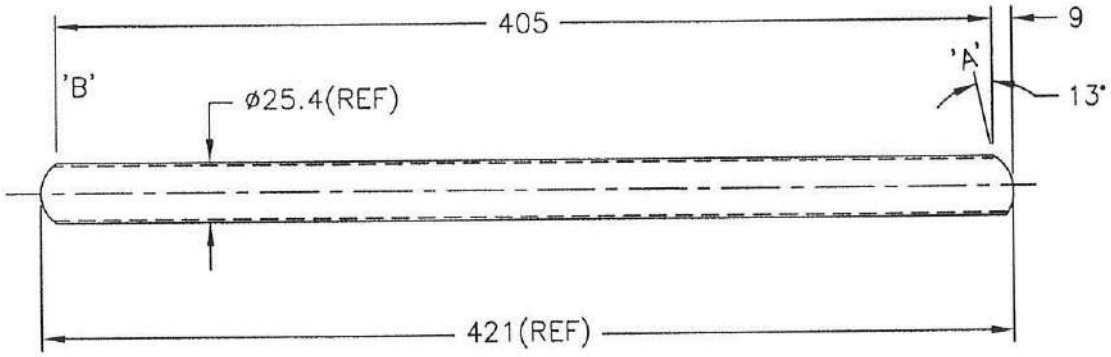
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	FOOT REST SUPPORT TUBE
DRN		MTL	STEEL TUBE ERW C1 OD28.6mm, THICK 1.63mm IS:2039 ANNEALED (AF44)
CHD		HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS	DRG No:- TD 2 C 38 A A3	SHEET 1OF1
APP			
DATE	05.08.2017		



VIEW IN DIRECTION–'B'

VIEW IN DIRECTION–'A'



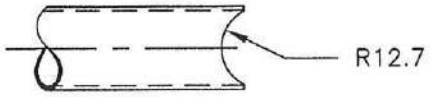
NOTE:–

1. REMOVE SHARP EDGES & CORNERS

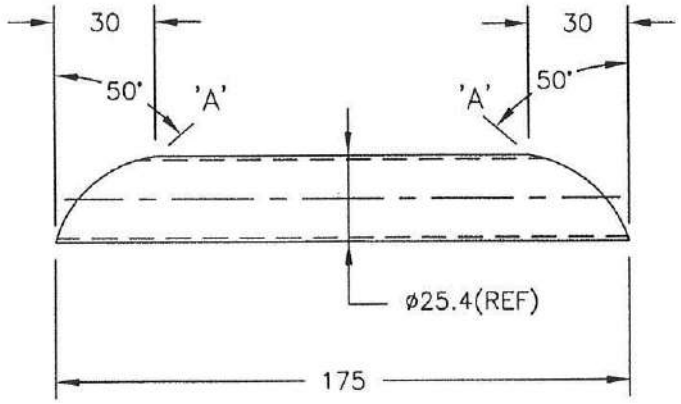
SNo.	REGION	REVISION	DATE	SIGN
R E V I S I O N S				

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	SIDE FRAME SUPPORT TUBE
DRN		MTL	STEEL TUBE ERW C1 OD25.4mm, THICK 1.63mm IS:2039 ANNEALED (AF16)
CHD		HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS	DRG No:- TD 2 C 38 A A4	SHEET 1OF1
APP			
DATE	05.08.2017		



VIEW IN DIRECTION–'A'



NOTE:–

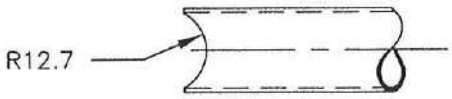
1. REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN

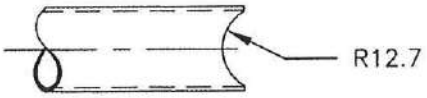
REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

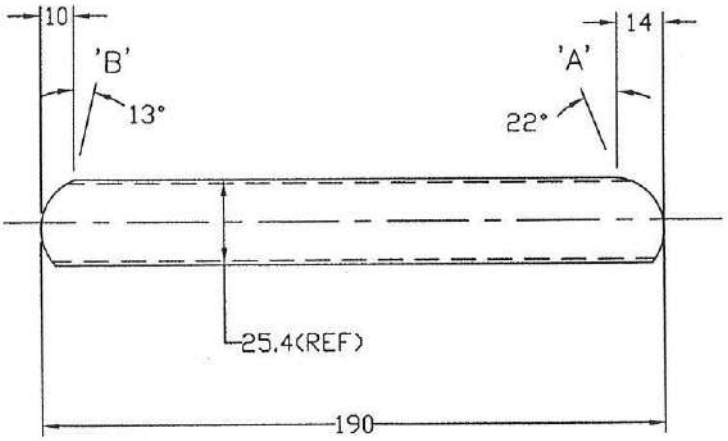
DGN	Ashish	NOM	SIDE FRAME STIFFENER
DRN		MTL	STEEL TUBE ERW C1 OD25.4mm, THICK 1.63mm IS:2039 ANNEALED (AF16)
CHD	Rian	HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS	DRG No:- TD 2 C 38 A A5	SHEET 1OF1
APP			
DATE	05.08.2017		



VIEW IN DIRECTION–'B'



VIEW IN DIRECTION–'A'



NOTE:–

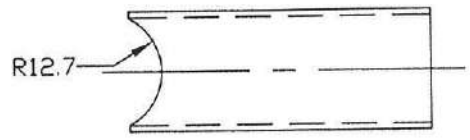
1. REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN

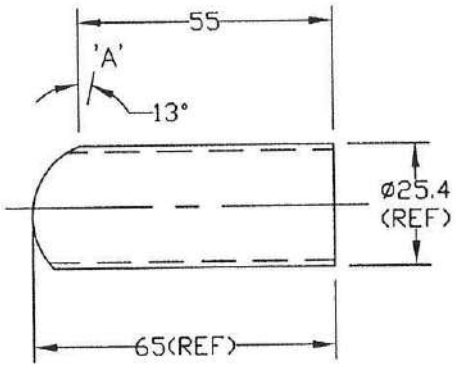
REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	FACE PIPE STIFFENER
DRN		MTL	STEEL TUBE ERW C1 OD25.4mm, THICK 1.63mm IS:2039 ANNEALED (AF16)
CHD		HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS	DRG No:- TD 2 C 38 A A6	SHEET 1OF1
APP			
DATE	08.08.2017		



VIEW IN DIRECTION–'A'



NOTE:–

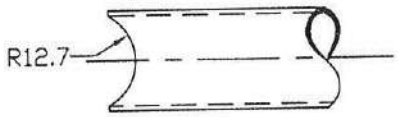
1. REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN

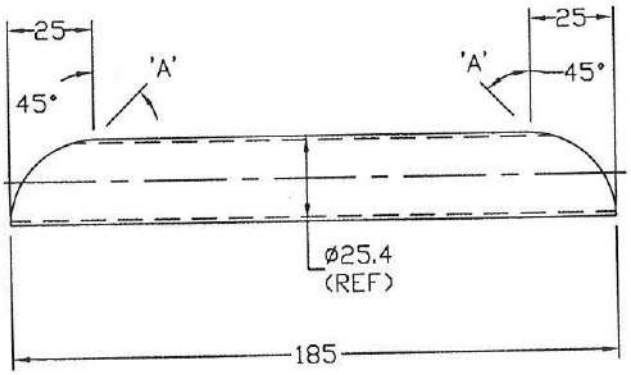
REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	STIFFENER
DRN		MTL	STEEL TUBE ERW C1 OD25.4mm, THICK 1.63mm IS:2039 ANNEALED (AF16)
CHD	Ram	HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS	DRG No:- TD 2 C 38 A A7	SHEET 1OF1
APP			
DATE	08.08.2017		



VIEW IN DIRECTION–'A'



NOTE:–

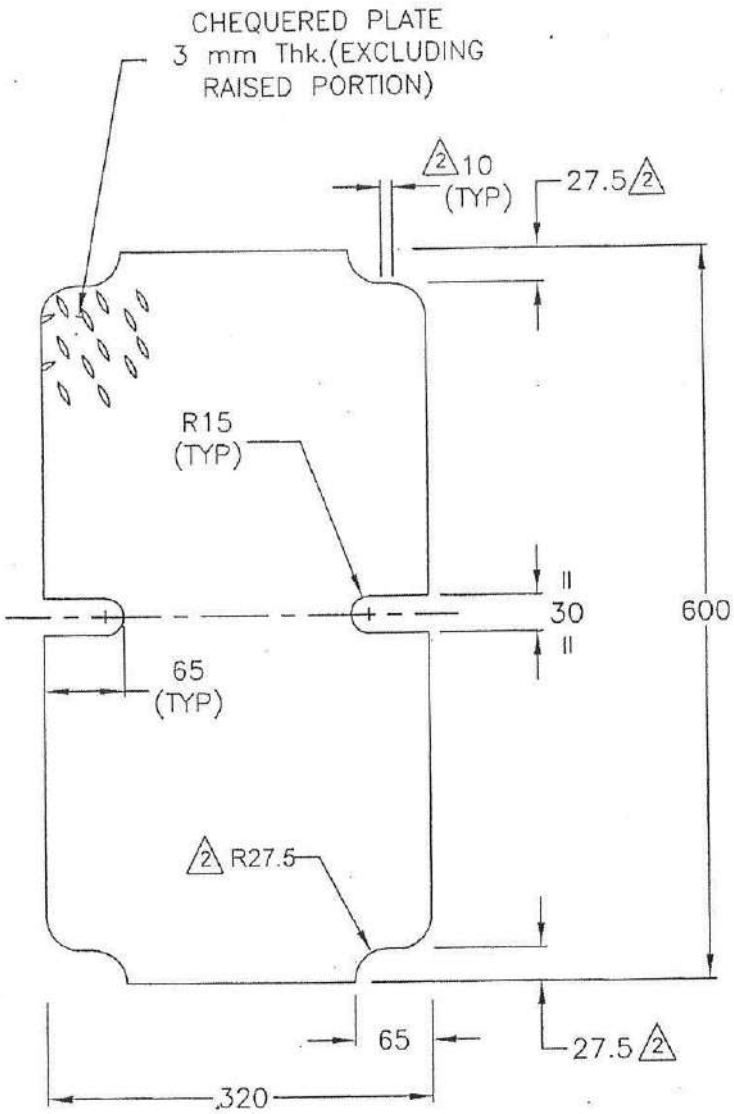
1. REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN

R E V I S I O N S

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	REINFORCING TUBE
DRN		MTL	STEEL TUBE ERW C1 OD25.4mm, THICK 1.63mm IS:2039 ANNEALED (AF16)
CHD		HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS	DRG No:-	TD 2 C 38 A A8
APP			SHEET 1OF1
DATE	08.08.2017		



NOTE:-

1. REMOVE SHARP EDGES & CORNERS

TOLERENCE:--

DEVIATION FOR NON TOLERANCED DIMENSIONS (ISI:2102 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 to1000	±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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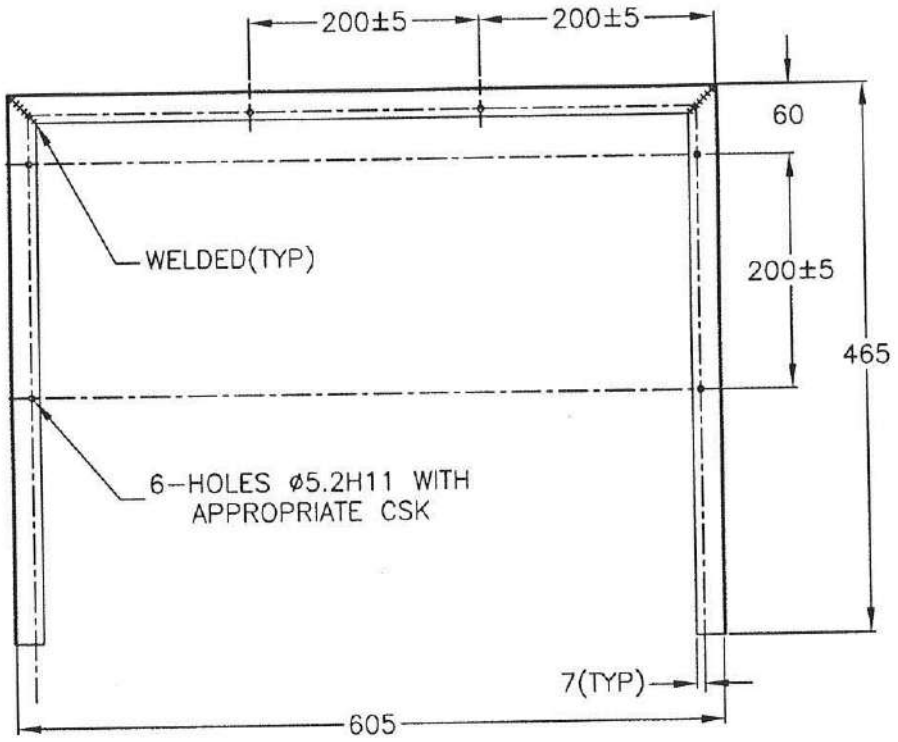
SNo.	REGION	REVISION	DATE	SIGN
2.	---	DRAWING MODIFIED	06-01-20	
1.	A-1	MATERIAL CODE AD 75 WAS AG 08	18-07-19	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA
KANPUR

DGN		NOM	FOOT REST
DRN		MTL	STEEL CHEQUERED PLATE THK 3 mm WTD QUALITY QUALITY (EXCLUDING RAISED PORTION) IS:3502 (AD 75)
CHD		HEAT TREATMENT	---
DIM	IN mm	SURFACE TREATMENT	---
SCALE	NTS		
APP		DRG No:- TD 2 C 38 A A9	REV 2 / SHEET 1OF1
DATE	08.08.2017		



NOTE:–

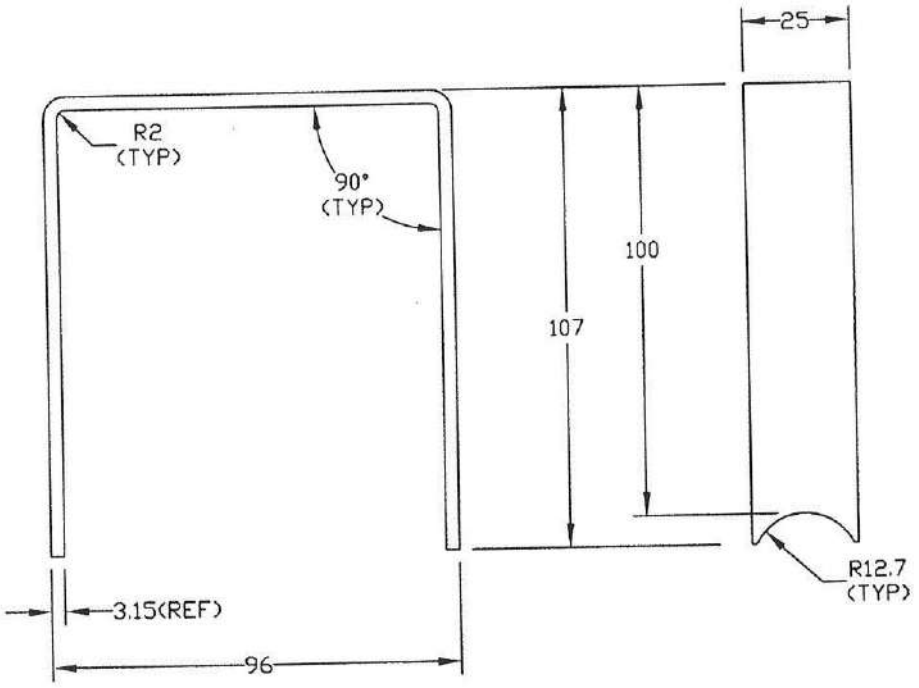
1. REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA
KANPUR

DGN	Ashish	NOM	SEAT SUPPORT
DRN		MTL	AG 02 - MS ANGLE LENGTH-15'-2" MADE FROM AD39(MS ANGLE 25X25X1.6mm,IS:2062)
CHD		HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS	DRG No:- TD 2 C 38 A 02	SHEET 1OF1
APP			
DATE	08.08.2017		



NOTE:–

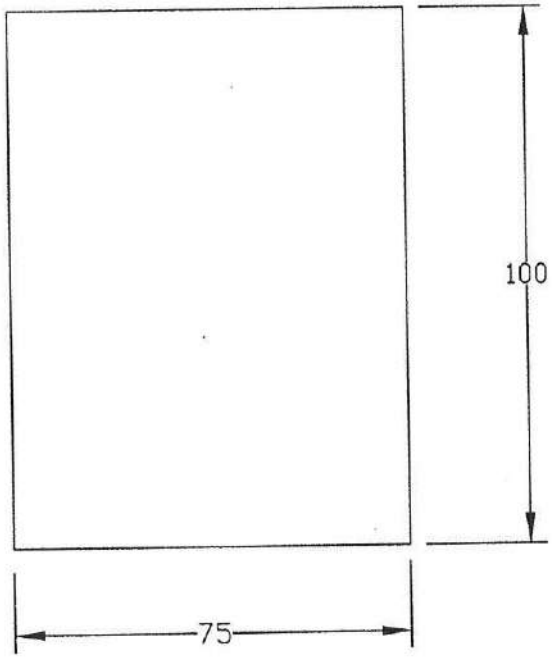
1. REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	CRUTCH HOLDER
DRN		MTL	SHEET MS HRA Gd'0' IS:1079 THICK 3.15mm (AA 08)
CHD		HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS	DRG No:- TD 2 C 38 A 03	SHEET 1OF1
APP			
DATE	08.08.2017		



NOTE:-

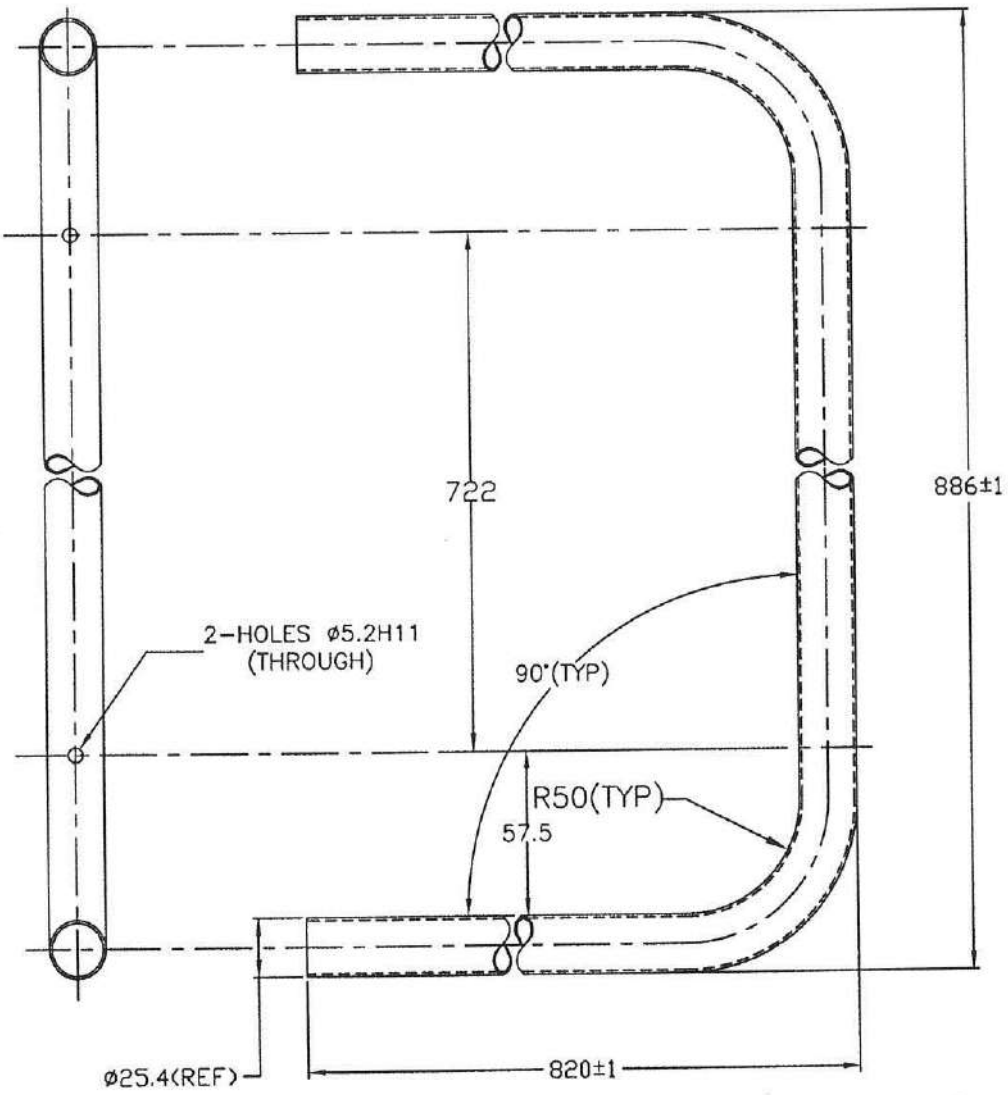
1. REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	PLATE FOR ACCESSIBILITY
DRN	Ashish	MTL	SHEET MS CR1 Gd'0' IS:513 THICK 1.0mm (AA 22)
CHD	Ram	HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS	DRG No:- TD 2 C 38 A 04	SHEET 1OF1
APP			
DATE	09.08.2017		



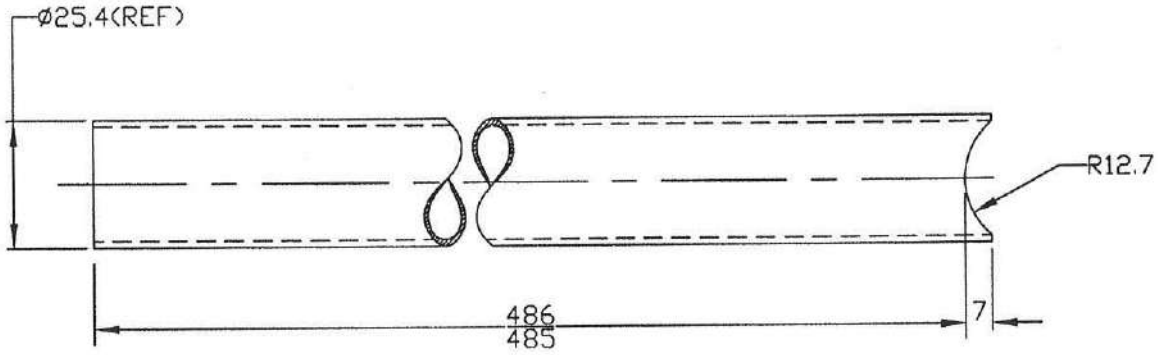
NOTE:-
1.REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA
KANPUR

DGN	Ashish	NOM	REAR LOOP
DRN		MTL	STEEL TUBE ERW C1 OD25.4mm THICK1.63mm ANNEALED IS:2039 (AF16)
CHD		HEAT TREATMENT	—
DIM	IN mm	SURFACE TREATMENT	—
SCALE	NTS	DRG No:- TD 2 C 38 A 05	SHEET 1OF1
APP			
DATE	10.08.2017		



NOTE:-

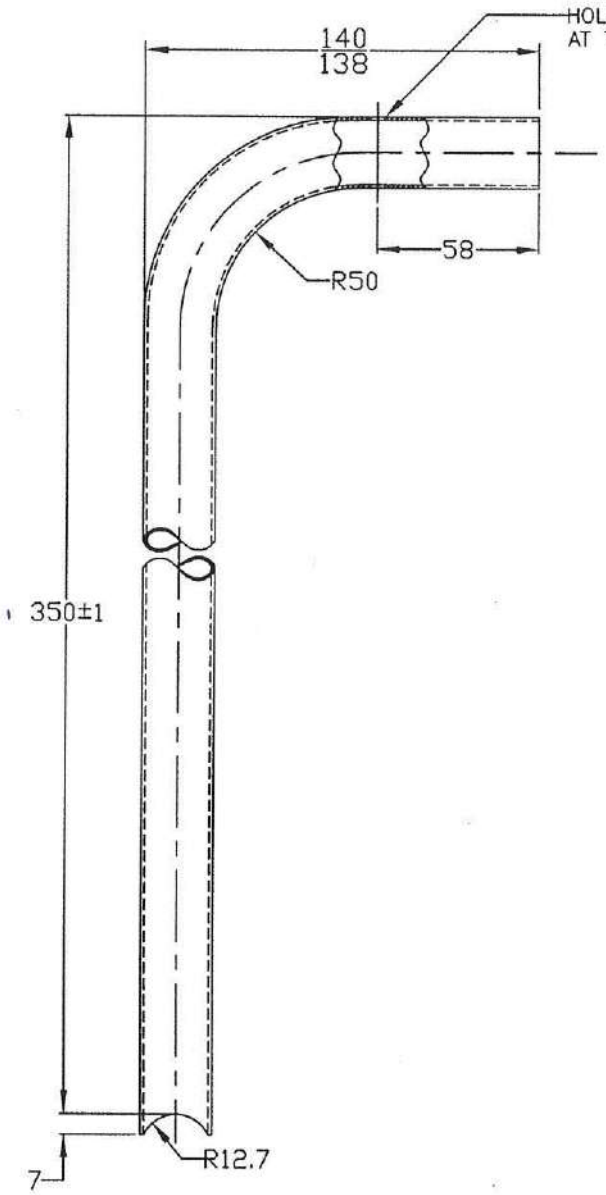
1.REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Abhishek	NOM	VERTICAL SUPPORT
DRN	Abhishek	MTL	STEEL TUBE ERW C1 OD25.4mm THICK1.63mm ANNEALED IS:2039(AF16)
CHD	Rajan	HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS	DRG No:- TD 2 C 38 A 06	SHEET 1OF1
APP			
DATE	10.08.2017		



NOTE:–

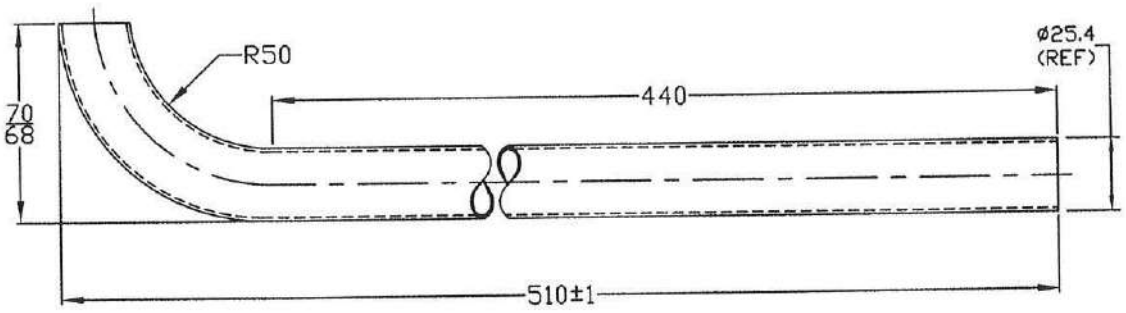
1.REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	LOOP SUPPORT TUBE
DRN	Ashish	MTL	STEEL TUBE ERW C1 OD25.4mm THICK1.63mm ANNEALED IS:2039(AF16)
CHD	Gaur	HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS		
APP		DRG No:- TD 2 C 38 A 07	SHEET 1OF1
DATE	10.08.2017		



NOTE:-

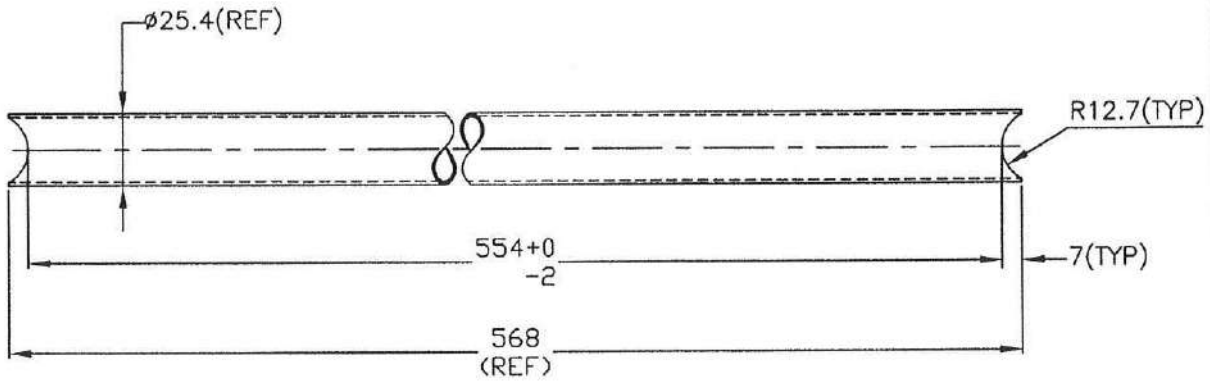
1.REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	SIDE SUPPORT TUBE
DRN		MTL	STEEL TUBE ERW C1 OD25.4mm THICK1.63mm ANNEALED IS:2039(AF16)
CHD		HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS	DRG No:-TD 2 C 38 A 08	SHEET 1OF1
APP			
DATE	10.08.2017		



NOTE:-

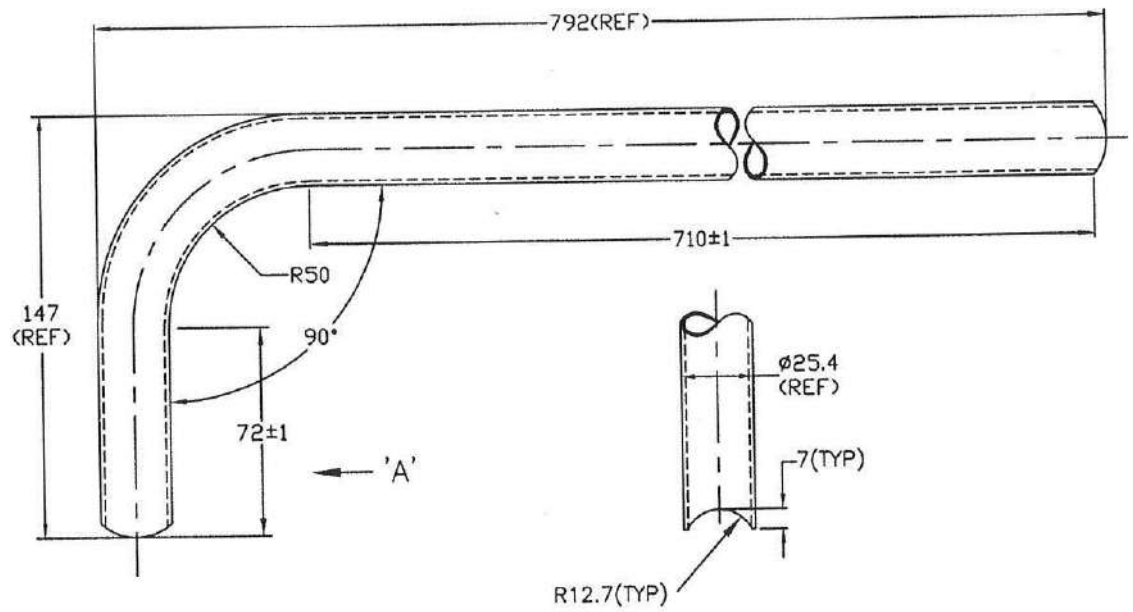
1.REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	REAR CROSS MEMBER
DRN	Ashish	MTL	STEEL TUBE ERW C1 OD25.4mm THICK1.63mm ANNEALED IS:2039(AF16)
CHD	Rajan	HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS	DRG No:-TD 2 C 38 A 09	SHEET 1OF1
APP			
DATE	10.08.2017		



VIEW IN DIRECTION–'A'

NOTE:–

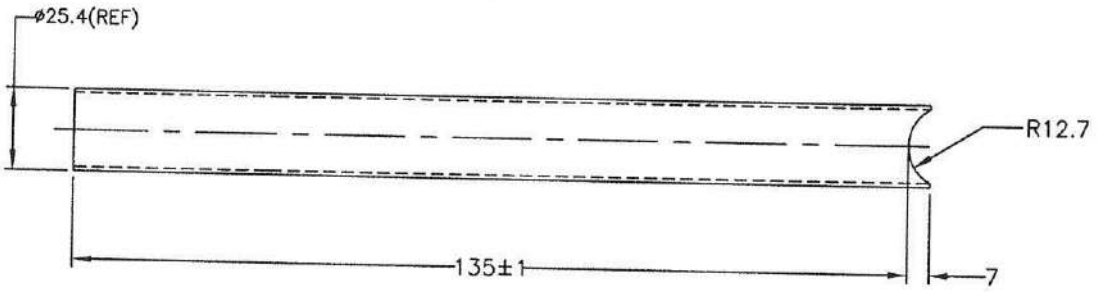
1.REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	REAR LOOP MEMBER
DRN		MTL	STEEL TUBE ERW C1 OD25.4mm THICK1.63mm ANNEALED IS:2039 (AF16)
CHD		HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS	DRG No:-TD 2 C 38 A 10	SHEET 1OF1
APP			
DATE	10.08.2017		



NOTE:–

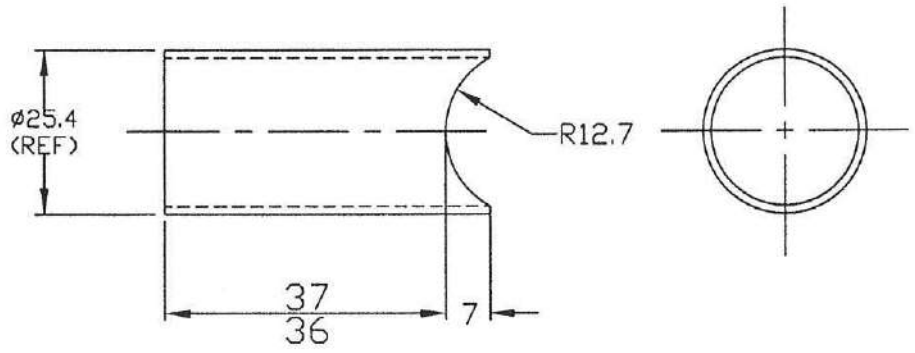
1.REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	SEAT STIFFENER
DRN		MTL	STEEL TUBE ERW C1 OD25.4mm THICK1.63mm ANNEALED IS:2039 (AF16)
CHD		HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS	DRG No:- TD 2 C 38 A 11	SHEET 1OF1
APP			
DATE	10.08.2017		



NOTE:-

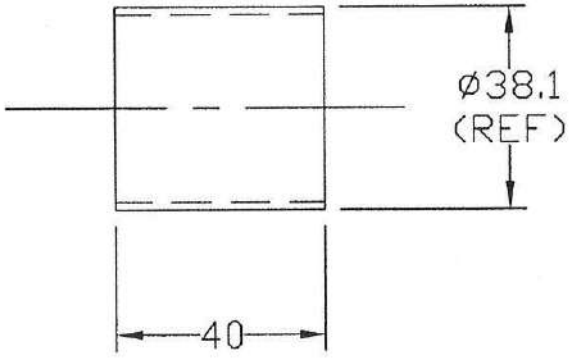
1.REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	STIFFENER
DRN	Ashish	MTL	STEEL TUBE ERW C1 OD25.4mm THICK1.63mm ANNEALED IS:2039 (AF16)
CHD	Rajan	HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS		
APP		DRG No:- TD 2 C 38 A 12	SHEET 1OF1
DATE	10.08.2017		



NOTE:-

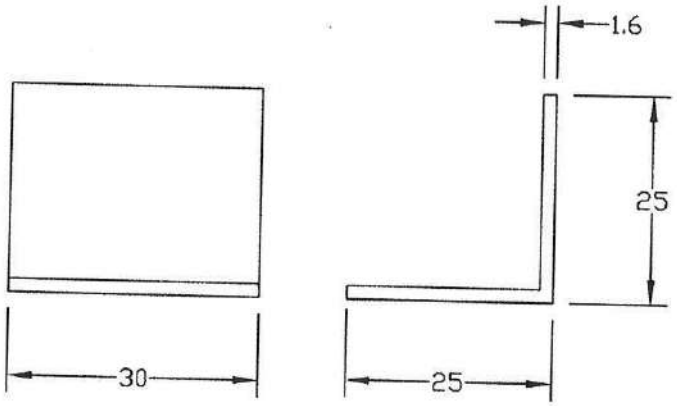
1. REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA
KANPUR

DGN	Ashish	NOM	SPACER TUBE
DRN	Ashish	MTL	STEEL TUBE ERW C1 OD 38.1mm, THICK 1.42mm,IS:2039, ANNEALED (AF45)
CHD	Rawat	HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS	DRG No:- TD 2 C 38 A 13	SHEET 1OF1
APP			
DATE	09.08.2017		



NOTE:–

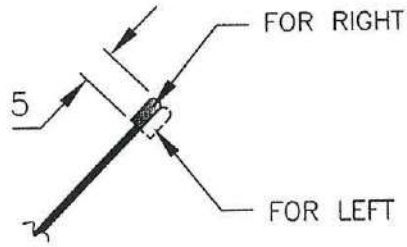
1. REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN

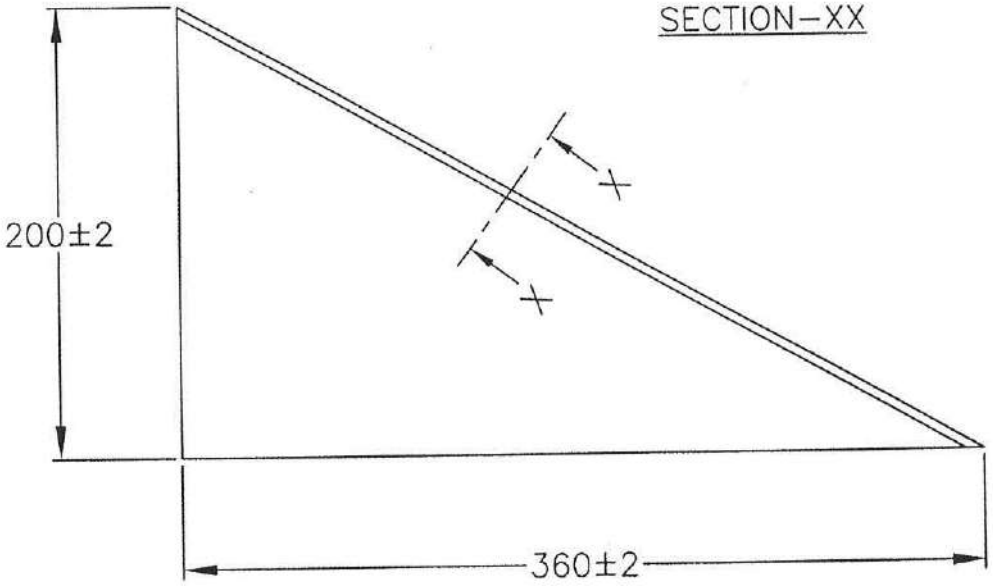
REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	SEAT STOPPER
DRN		MTL	ANGLE MS SIZE 25x25x1.6mm, IS:2062 (AD 39)
CHD		HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS	DRG No:- TD 2 C 38 A 14	SHEET 1OF1
APP			
DATE	09.08.2017		



SECTION–XX



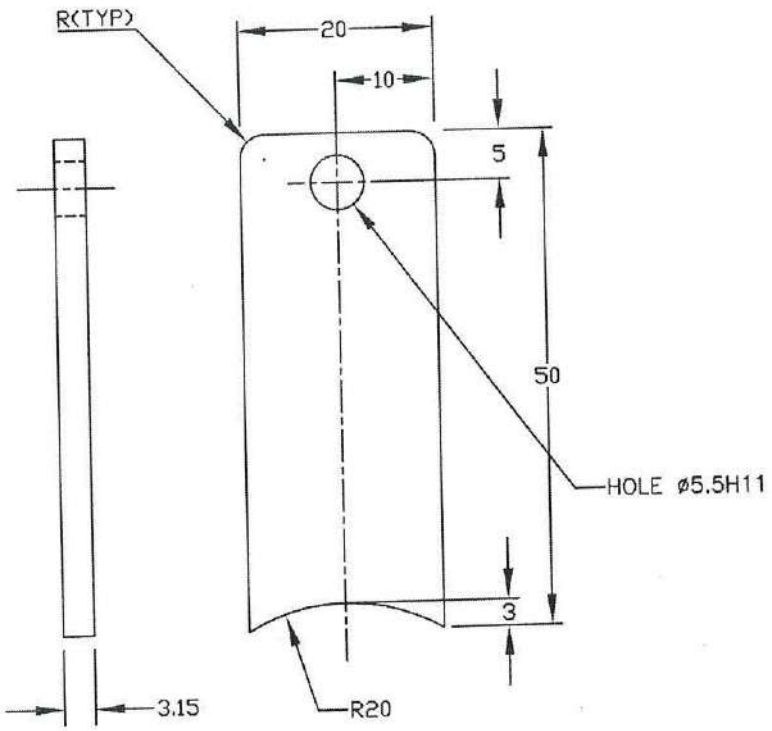
NOTE:–

1. REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN
		REVISIONS		

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	SIDE GUARD
DRN		MTL	SHEET MS CR1 Gd.'0' IS:513 THICK 1.25mm (AA 23)
CHD		HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS	DRG No:-	RIGHT TD 2 C 38 A 15 LEFT TD 2 C 38 A 16
APP			SHEET 1OF1
DATE	08.08.2017		

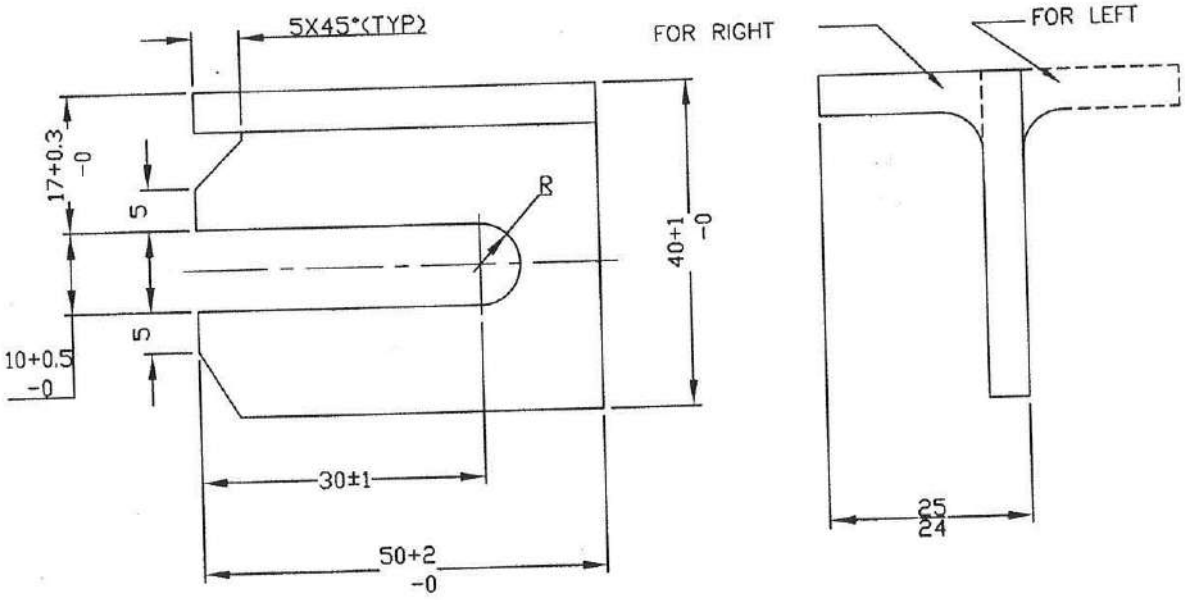


SNo.	REGION	REVISION	DATE	SIGN
1.	---	LENGTH OF CHAIN HOLDER 50mm WAS 30 mm & RADIUS ADDED	14.08.20	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	HOLDER CHAIN COVER
DRN		MTL	SHEET M.S. GD H.R.1. THICK 3.15 mm ANNEALED, AS PER IS:1079 (AA 08)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm — UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	
APP		DRG No:-TD 2 C 38 A 17	SHEET
DATE	08.08.2017		



NOTE:-

1. REMOVE SHARP EDGES & CORNERS
2. WEIGHT OF COMPONENTS 100gms EACH (RIGHT & LEFT) APPROX.

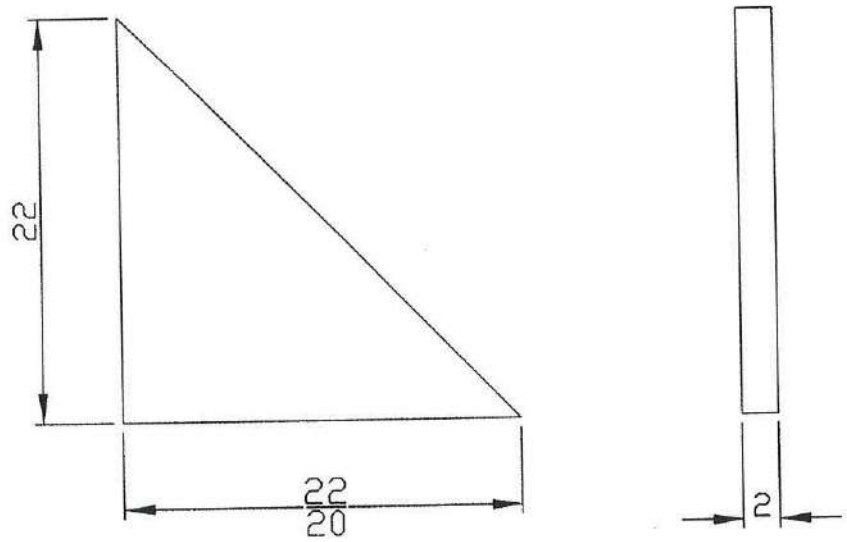
SNo.	REGION	REVISION	DATE	SIGN
5	D-4	DIM 30±1 WAS 35±1 & DRG REDRAWN	18/3/13	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	BRACKET
DRN		MTL	ANGLE MS 40X40X5mm IS:226 (AD34)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm; UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	
APP		DRG No:-	RIGHT TD 2 C 98 A 13; LEFT TD 2 C 98 A 14
DATE	26.12.1991		SHEET 1OF1

01 K 8 213



NOTE:-

1. REMOVE SHARP EDGES & CORNERS

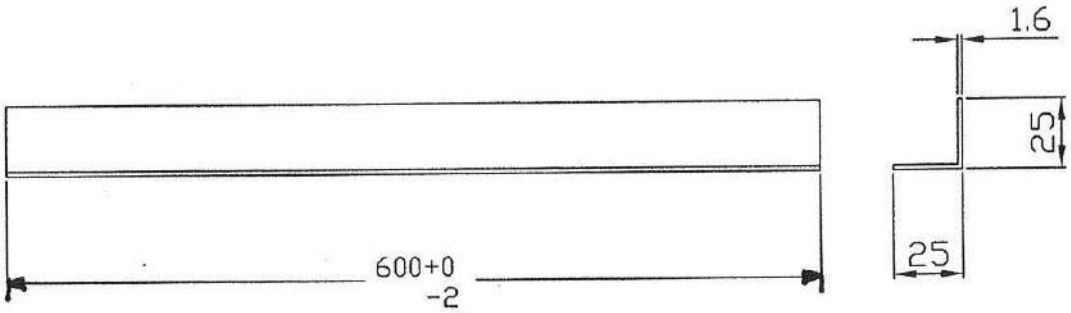
SNo.	REGION	REVISION	DATE	SIGN
1	—	DRAWING REDRAWN	18/3/16	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	STIFFENER
DRN		MTL	SHEET MS CRA Gd '0', IS:513 THICK 2mm (AA 27)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm — UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	—
APP		DRG No:-TD 2 C 98 A 21	SHEET 10F1
DATE	26.12.1991		

01 K 8 219



NOTE:-

1. REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN

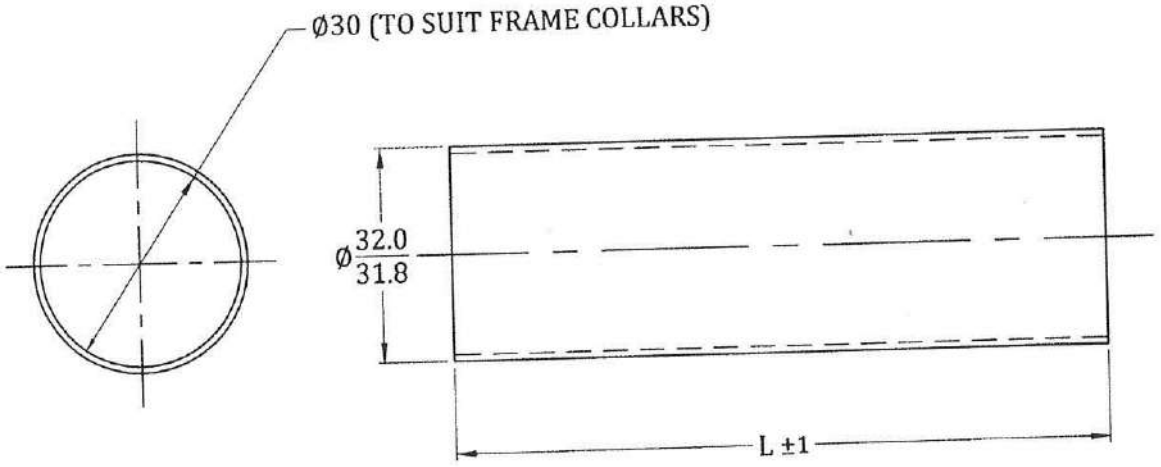
REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	SEAT BASE SUPPORT
DRN		MTL	AG 03-MS ANGLE, LENGTH-16' MADE FROM AD 39 (MS ANGLE 25X25X1.6mm, IS:226)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm — UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	
APP		DRG No:-TD 2 C 98 J B1	SHEET 10F1
DATE	03.05.13		

57

SL. No	DRG. No	L ±1	WEIGHT
1	L B 66	128	84 gms.
2	L B 86	146	100. gms.



NOTE:-
1. REMOVE SHARP EDGES & CORNERS.
2. THIS PIPE IS READILY AVAILABLE AT CYCLE SHOPS AS SPARE (FACE PIPE)

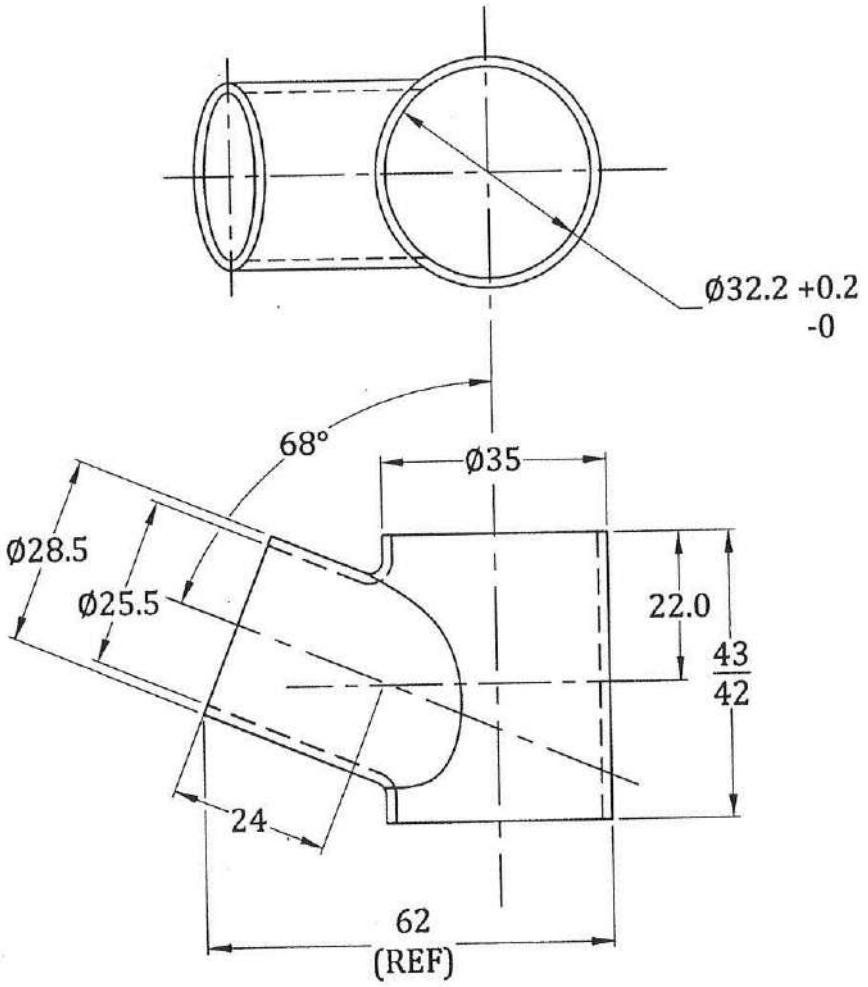
SNo.	REGION	REVISION	DATE	SIGN
5	---	DRAWING REDRAWN	24 12 12	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	BICYCLE HEAD TUBE (FACE PIPE)
DRN		MTL	M. S. PIPE
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm; UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	
APP		DRG No:-	L B 66 / L B 86
DATE	09-05-94		SHEET 1OF1

06 K 6 072



NOTE:-

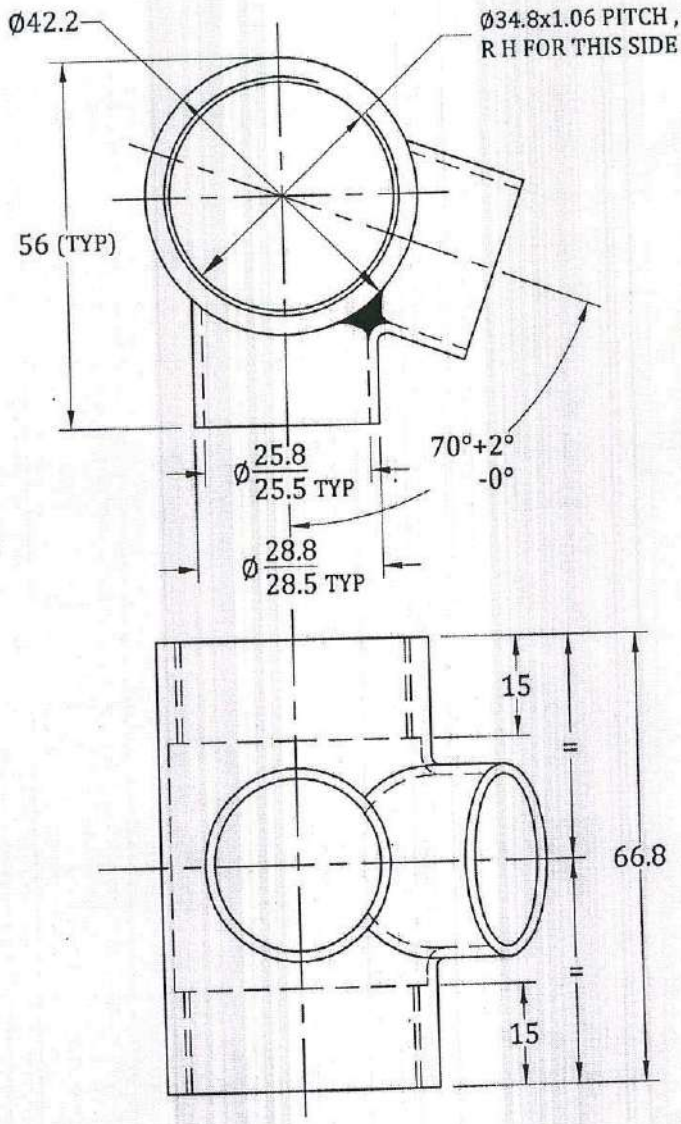
1. ALL DIMENSIONS ARE FOR REFERENCE ONLY.
2. THIS BICYCLE TOP LUG IS READILY AVAILABLE AT CYCLE SHOPS AS SPARE.
3. WEIGHT - 65 TO 72 gms.

SNo.	REGION	REVISION	DATE	SIGN
3	F - 2	Ø32.2 +0.2 WAS Ø32.0 -0	18.04.17	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	BICYCLE TOP LUG
DRN	Ashish	MTL	M.S.
CHD	Alam	TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm; UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	—
APP	SA/DDI	DRG No:-	LB 89
DATE	09.05.1994		SHEET 1OF1



NOTE:—

1. THE COMPONENT IS SIMILAR TO STANDARD AVAILABLE B.B SHELL IN BICYCLE INDUSTRY.
2. WEIGHT - 208 gms. (APPROX).

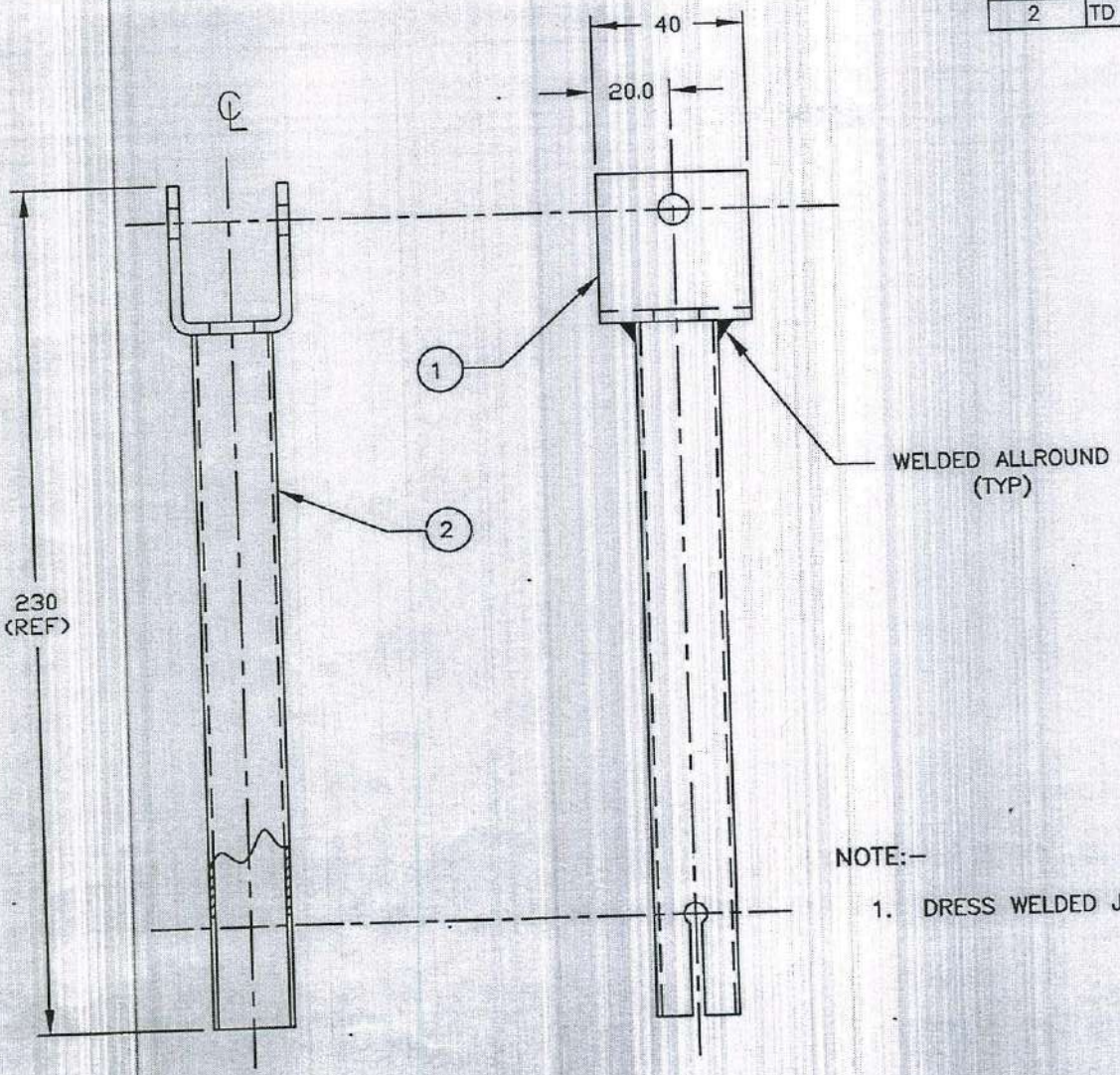
SNo.	REGION	REVISION	DATE	SIGN
3.	E - 3	Ø25.8/25.5, Ø28.8/28.5 & ∠70° +2° -0° WERE Ø25.7/25.4, 28.7/28.4 & ∠68° (RESP)	14.05.18	
2.	-----	DRAWING REDRWAN	04.01.13	CV/091

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	BICYCLE BOTTOM BRACKET
DRN	Ashish	MTL	M.S.
CHD	Rajan	TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.128 mm — UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	—
APP	Sd/DD1	DRG No:-	L B 99
DATE	13 - 10 - 94	REV	3
		SHEET	1OF1

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1	TD 2 C 38 A C2	'U' CLAMP	01	
2	TD 2 C 98 A B1	CENTER TUBE	01	



NOTE:-

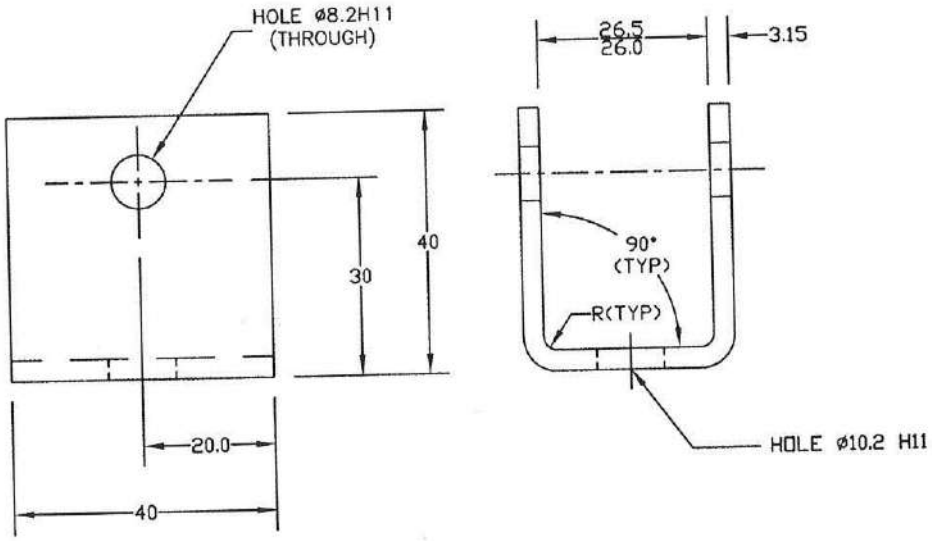
1. DRESS WELDED JOINTS.

SNo.	REGION	REVISION	DATE	SIGN

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Gurpreet	NOM	CENTER TUBE ASSY
DRN	Gurpreet	MTL	———
CHD	[signature]	HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	ZINC PLATED THK 5 TO 8 MICRONS. OR POWDER COATED COLOUR AS APPROVED.
SCALE	NTS	DRG No:- TD 2 C 38 A D0	SHEET 1 OF 1
APP	[signature]		
DATE	10.01.2018		



NOTE:-

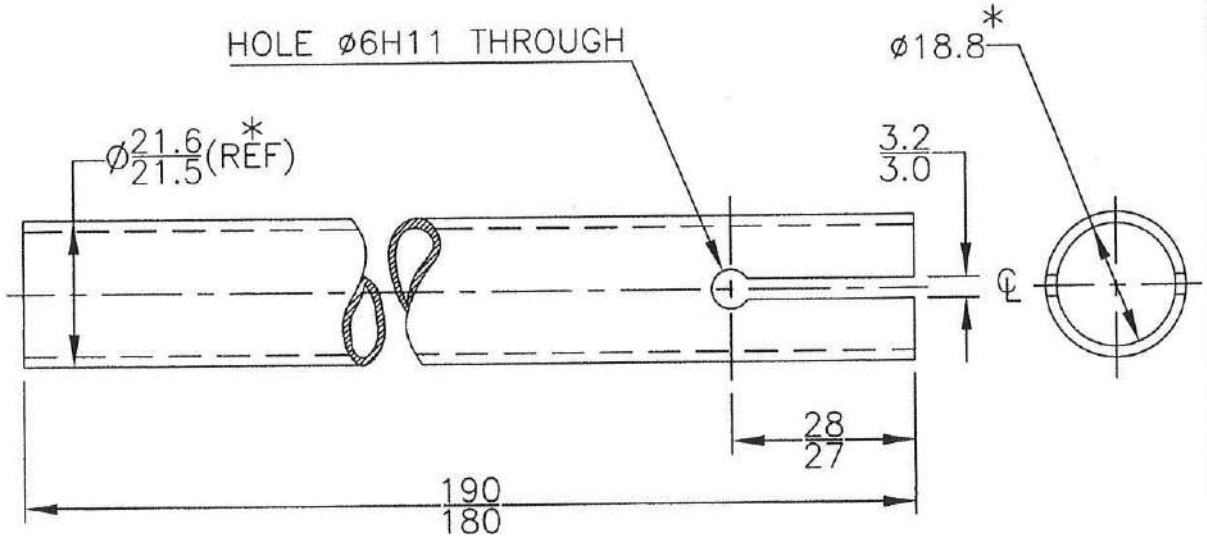
1. REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	'U' CLAMP
DRN		MTL	SHEET MS HRA Gd'0' IS:1079 THICK 3.15mm (A A 08)
CHD		HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS	DRG No:- TD 2 C 38 A C2	SHEET 1OF1
APP			
DATE	10.08.2017		



NOTE:-

1. REMOVE SHARP EDGES & CORNERS
2. IF READYMADE TUBE OF OD 21.6/21.5 & ID 18.8 AVAILABLE IS ALSO ACCEPTABLE AS AN ALTERNATE
3. WEIGHT-110gms(APPROX)

SNo.	REGION	REVISION	DATE	SIGN
5	—	DRAWING REDRAWN	18/3/13	

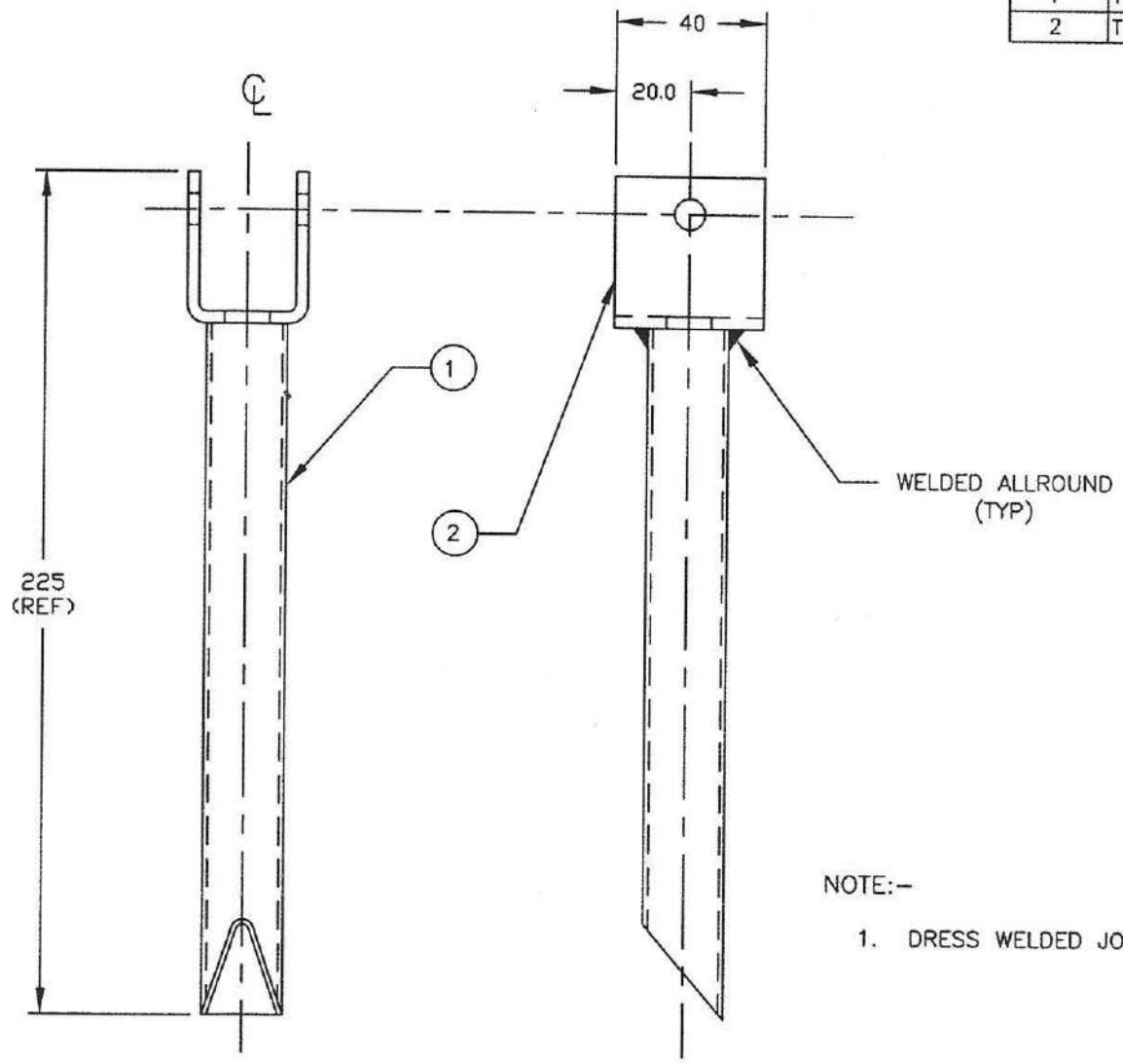
REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	CENTRE TUBE
DRN		MTL	STEEL TUBE ERW C1 OD22.23mm, THK 1.6mm IS:2039 ANNEALED(AF 13)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm — UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	—
APP		DRG No:- TD 2 C 98 A B1	SHEET 1OF1
DATE	26.12.1991		

01 K 8 225

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1	TD 2 C 38 A C1	CENTER TUBE	01	
2	TD 2 C 38 A C2	'U' CLAMP	01	



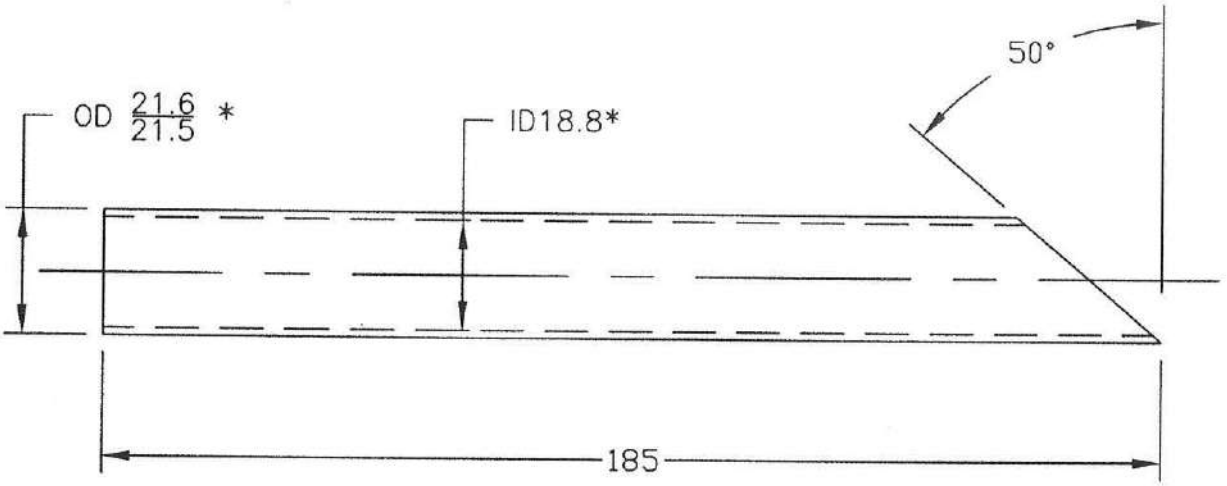
NOTE:-

1. DRESS WELDED JOINTS.

SNo.	REGION	REVISION	DATE	SIGN
		REVISIONS		

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	CENTER TUBE ASSY
DRN	Ashish	MTL	———
CHD	[illegible]	HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	ZINC PLATED THK 6 TO 8 MICRONS. OR POWDER COATED COLOUR AS APPROVED.
SCALE	NTS	DRG No:- TD 2 C 38 A C0	SHEET 1 OF 1
APP	[illegible]		
DATE	10.08.2017		



NOTE:-

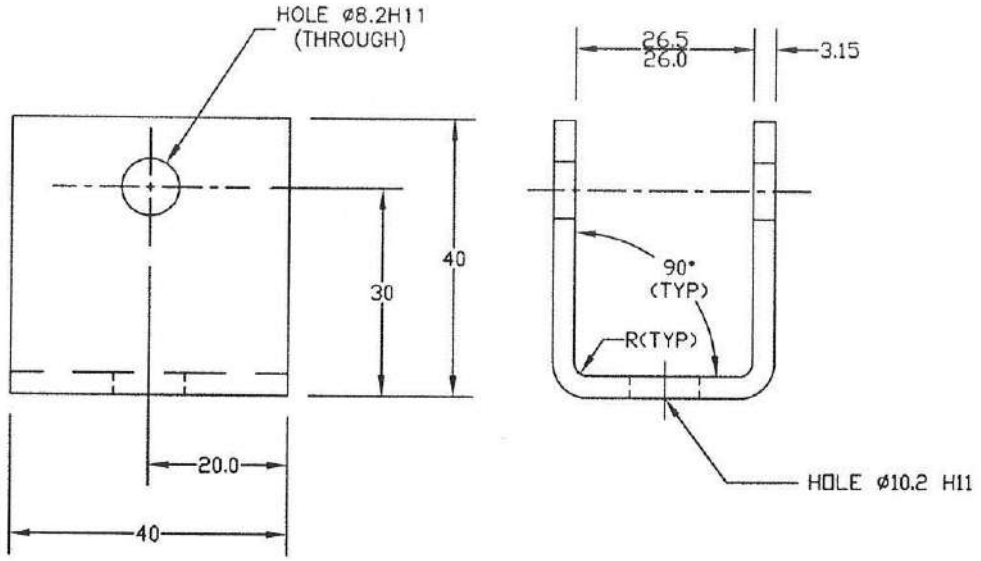
1. REMOVE SHARP EDGES & CORNERS.
2. *IF READYMADE TUBE OF OD 21.6/21.5 AND ID 18.8 AVAILABLE IS ALSO ACCEPETABLE AS AN ALTERNATE.

SNo.	REGION	REVISION	DATE	SIGN

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	CENTER TUBE
DRN	Ashish	MTL	STEEL TUBE ERW C1 OD22.23mm THICK 1.63mm,IS:2039 ANNEALED(AF13)
CHD	Ram	HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS	DRG No:-	TD 2 C 38 A C1
APP			SHEET 1OF1
DATE	10.08.2017		



NOTE:–

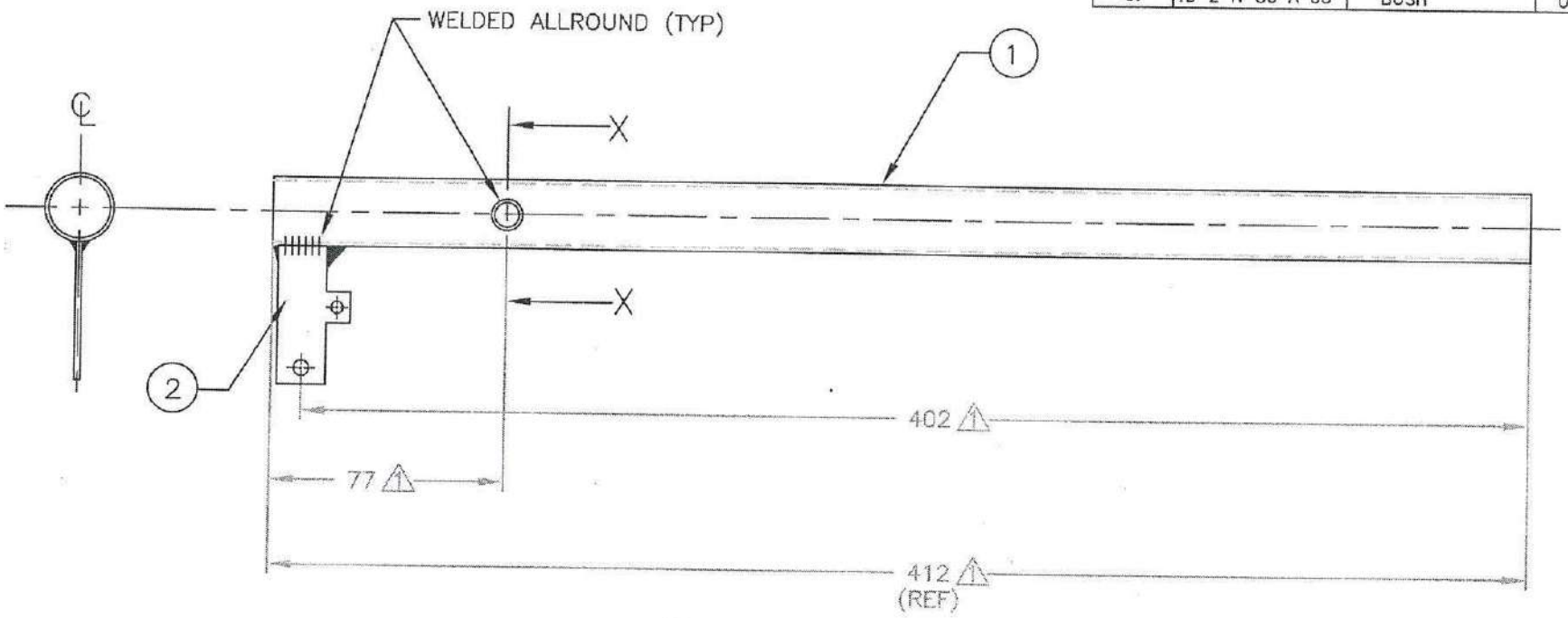
1. REMOVE SHARP EDGES & CORNERS

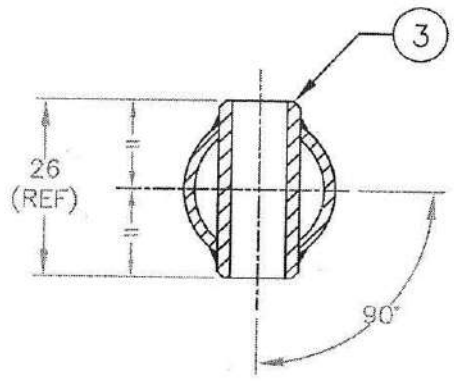
SNo.	REGION	REVISION	DATE	SIGN
R E V I S I O N S				

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	'U' CLAMP
DRN		MTL	SHEET MS HRA Gd'0' IS:1079 THICK 3.15mm (A A 08)
CHD		HEAT TREATMENT	——
DIM	IN mm	SURFACE TREATMENT	——
SCALE	NTS	DRG No:- TD 2 C 38 A C2	SHEET 1OF1
APP			
DATE	10.08.2017		

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 C 38 A B1	HANDLE TUBE	01	
2.	TD 2 C 38 A B2	STRIP	01	
3.	TD 2 N 86 A 03	BUSH	01	





SECTION–XX

NOTE:–

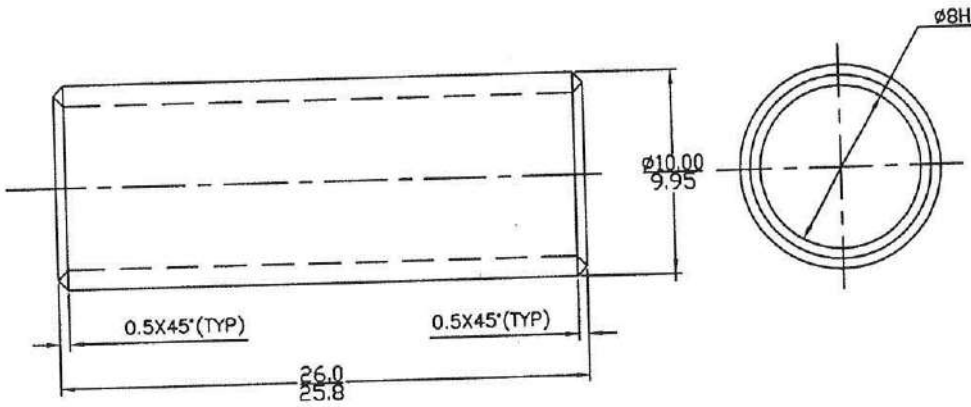
1. DRESS WELDED JOINTS.

SNo.	REGION	REVISION	DATE	SIGN
1.	---	DIMENSIONS MODIFIED	09.12.21	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DRN		NOM	HANDLE ASSEMBLY
CHD		MTL	———
DIM	IN mm	HEAT TREATMENT	———
SCALE	NTS	SURFACE TREATMENT	POWDER COATED COLOUR AS APPROVED
PROJ.		DRG No:- TD 2 C 38 A B0	SHEET 1 OF 1
APP	Sd.DD1		
DATE	14.8.2017		



NOTE:-

1. REMOVE SHARP EDGES & CORNERS.

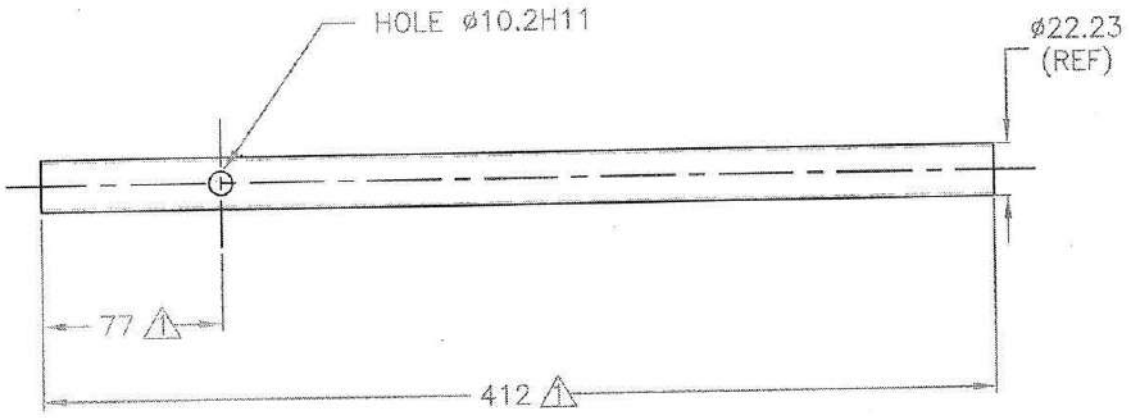
SNo.	REGION	REVISION	DATE	SIGN
2.	A-2	MTL AF 28 WAS AB 03	24.8.13	
1.	—	DRG REDRAWN	2.8.12	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	BUSH
DRN		MTL	MS TUBE ERW C1 OD10mm, WALL THICKNESS 1.2mm (AF 28)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm — UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	—
APP	Sd/DDI	DRG No:-TD 2 N 86 A 03	SHEET 1OF1
DATE	07.10.99		

01 K6 311



NOTE:–

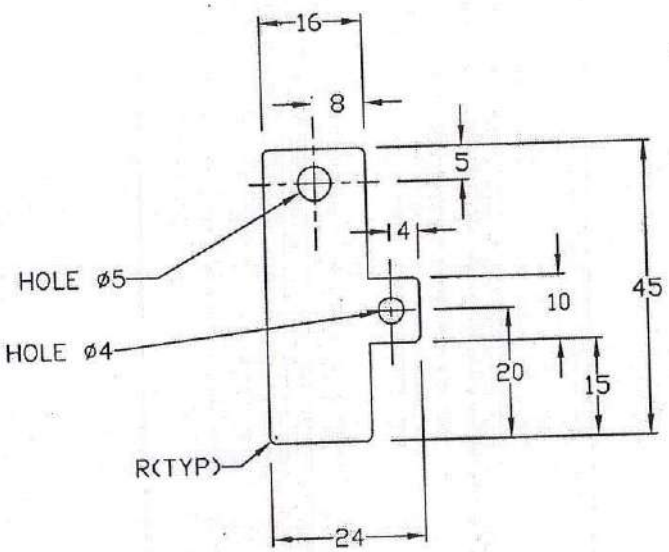
1. REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN
1.	----	DIMENSIONS MODIFIED	09.12.21	

REVISIONS

ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR

DRN		NOM	HANDLE TUBE
CHD		MTL	STEEL TUBE ERW C1 OD 22.23mm THICK 1.63mm,IS:2039 ANNEALED (AF13)
DIM	IN mm	HEAT TREATMENT	———
SCALE	NTS	SURFACE TREATMENT	———
PROJ.		DRG No:-	TD 2 C 38 A B1
APP	Sd.DD1		SHEET 1OF1
DATE	10.08.2017		



NOTE:-

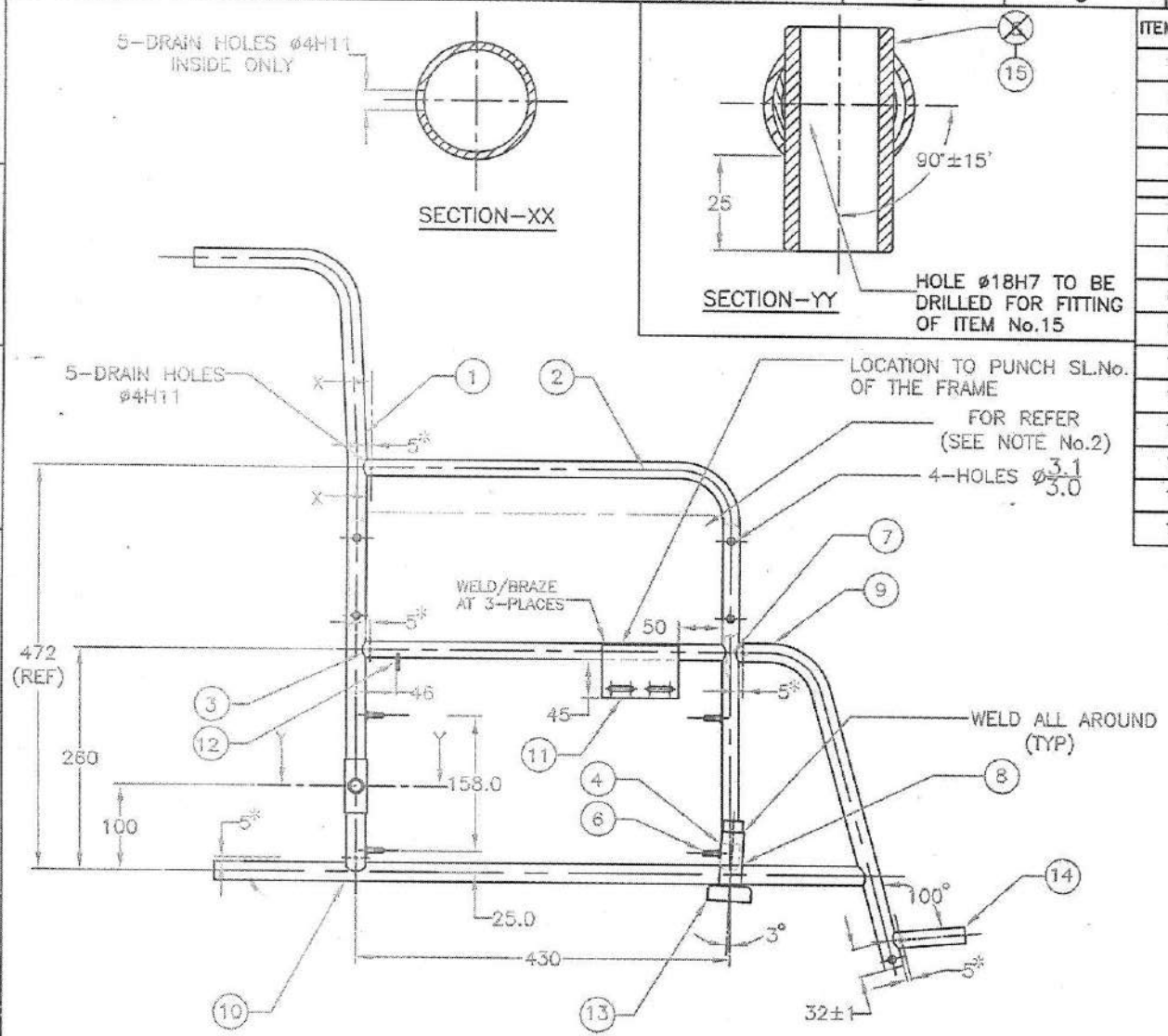
1. REMOVE SHARP EDGES & CORNERS

SNo.	REGION	REVISION	DATE	SIGN
01.	F3	DRAWING MODIFIED	13.09.19	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	STRIP
DRN		MTL	SHEET MS CRA DESIGNATION CR1, Gd '340', IS:513, THICK 3mm (AA28)
CHD		HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS		
APP		DRG No:- TD 2 C 38 A B2	SHEET 1OF1
DATE	10.08.2017		



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	
~~5.~~	~~TD 2 A 07 A 11~~	~~BUSH AXLE~~	~~1~~	DELETED
6.	TD 2 A 07 A 19	STUD	4	
7.	TD 2 A 07 A 20	REST RAIL SEAT(FRONT)	1	
8.	TD 2 A 07 A 22	TUBE ADAPTOR FRONT WHEEL	2	
9.	TD 2 A 02 A 05	TUBE MAIN FOOT REST SUPPORT	1	
10.	TD 2 A 02 A 14	TUBE LOWER	1	
11.	TD 2 A 07 A 25	BRACKET	1	
12.	TD 2 A 07 A 28	REST RAIL SEAT(REAR)	1	
13.	TD 2 A 07 V A0	TUBE ADAPTOR ASSY.	1	
14.	TD 2 A 07 K 02	TUBE FOOT REST	1	
15.	TD 2 A 07 A 29	BUSH AXLE	1	

NOTE:-

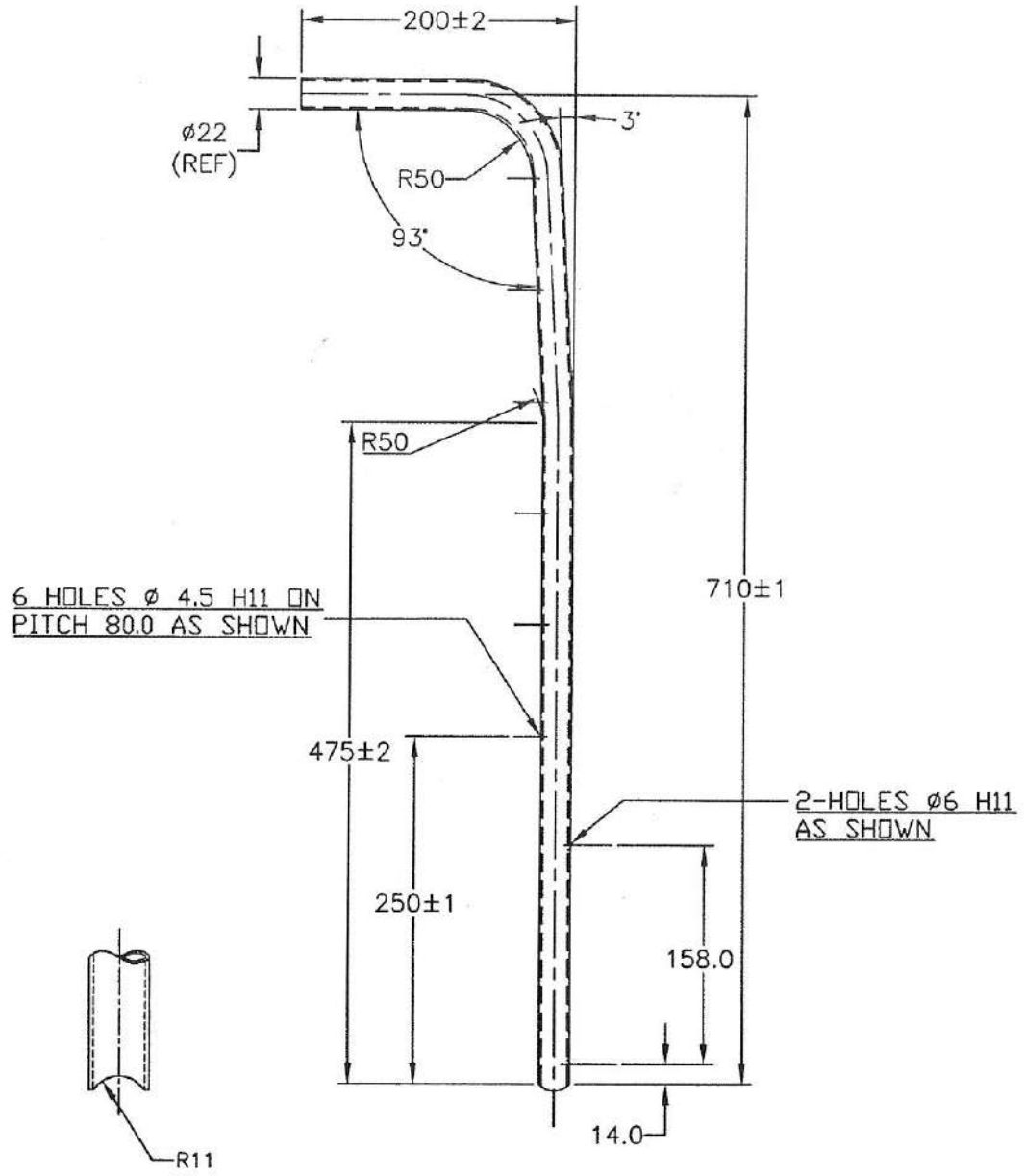
1. FOR ALL OTHER DETAILS REFER DRG No. TD 2 A 07 A 00 (SHEET 1).
2. DRILL 4-HOLES ø3.1/3.0 ON ITEM No.1 & 2 ON ONE SIDE ONLY BEFORE PAINTING. USING PLATE GUARD (TD 2 C 51 0 01) AS TEMPLATE.

SNo.	REGION	REVISION	DATE	SIGN
25.	———	ITEM No. 5 DELETED, ITEM No.15 ADDED	12.02.21	
24.	D-5	DIM 472(REF) WAS 460(REF)	07.03.18	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DRN		NOM	FRAME ASSY (RIGHT)
CHD		MTL	———
DIM	IN mm	HEAT TREATMENT	———
SCALE	NTS	SURFACE TREATMENT	POWDER COATED (COLOUR AS APPROVED)
PROJ		DRG No:- TD 2 C 51 A 00	REV 25 / SHEET 1 OF 1
APP	Sd. DD1		
DATE	25.09.1982		



NOTE:-

1.REMOVE SHARP EDGES & CORNERS.

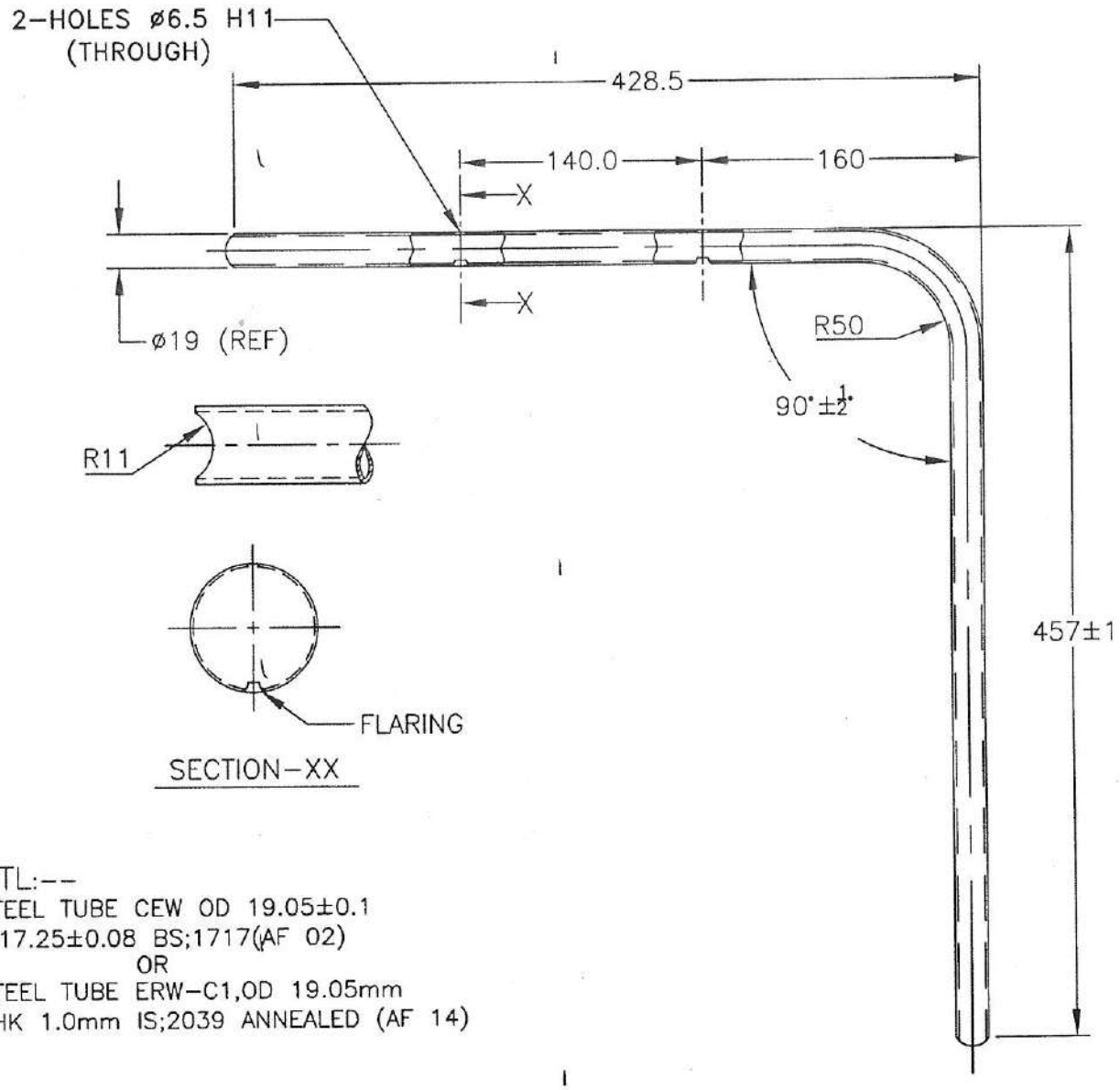
SNo.	REGION	REVISION	DATE	SIGN
1.	———	DRAWING REDRAWN	03.12.14	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	TUBE REAR
DRN	Ashish	MTL	STEEL TUBE ERW-C1 OD 22.23mm THICK1.6mmIS:2039,ANNEALED(AF13)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm — UNLESS SPECIFIED
DIM	in mm		
SCALE	NTS	FIN	———
APP	Sd/DD1	DRG No:-TD 2 C 51 A 01	SHEET 1OF1
DATE	25.09.1982		

01	K	5	160



MTL:--
STEEL TUBE CEW OD 19.05±0.1
ID17.25±0.08 BS;1717(AF 02)
OR
STEEL TUBE ERW–C1,OD 19.05mm
THK 1.0mm IS;2039 ANNEALED (AF 14)

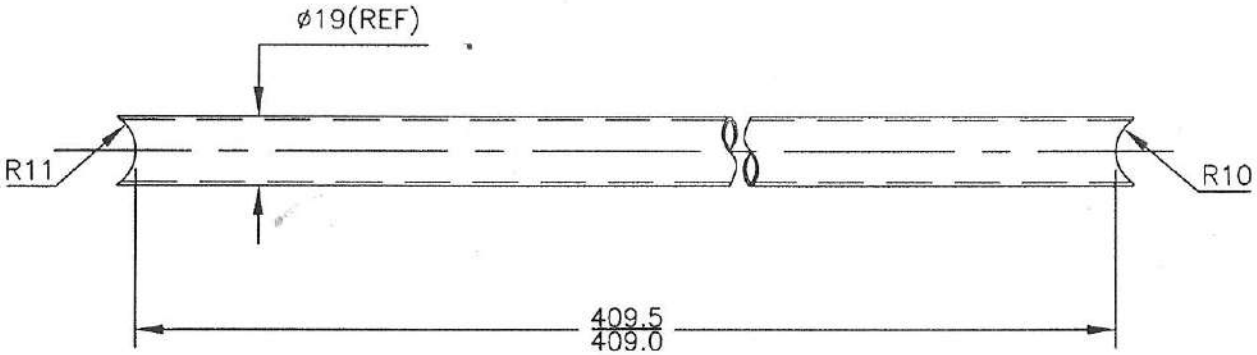
NOTE:--
1. REMOVED SHARP EDGES & CORNERS.
2. DRILL 2–HOLES ø6.5H11 & FLARE UP TO PROVIDE C'BORE FOR CSK HEAD SCREW.
3. AXIS OF HOLES TO BE IN THE PLANE OF TUBE WITH IN ±2°.

SNo.	REGION	REVISION	DATE	SIGN
16.	E–1	DIM 457±1 WAS 445±1	07.03.18	
15.	———	DRAWING REDRAWN	03.12.14	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA
KANPUR

DGN	Ashish	NOM	TUBE ARM REST
DRN	Ashish	MTL	INDICATED
CHD	Rai	HEAT TREATMENT	———
DIM	IN mm	SURFACE TREATMENT	———
SCALE	NTS		
APP	Sel/DDJ	DRG No:- TD 2 C 51 A 02	REV 16 / SHEET 1OF1
DATE	25.09.1982		



MTL:--

STEEL TUBE CEW OD 19.05±0.1
ID 17.25±0.08,BS:1717(AF02)
OR
STEEL TUBE ERW-C1 OD19.05mm
THICK1.0mm,IS2039ANNEALED (AF14)

NOTE:--

1.REMOVE SHARP EDGES & CORNERS.

SNo.	REGION	REVISION	DATE	SIGN
5.	———	DRAWING REDRAWN	03.12.14	

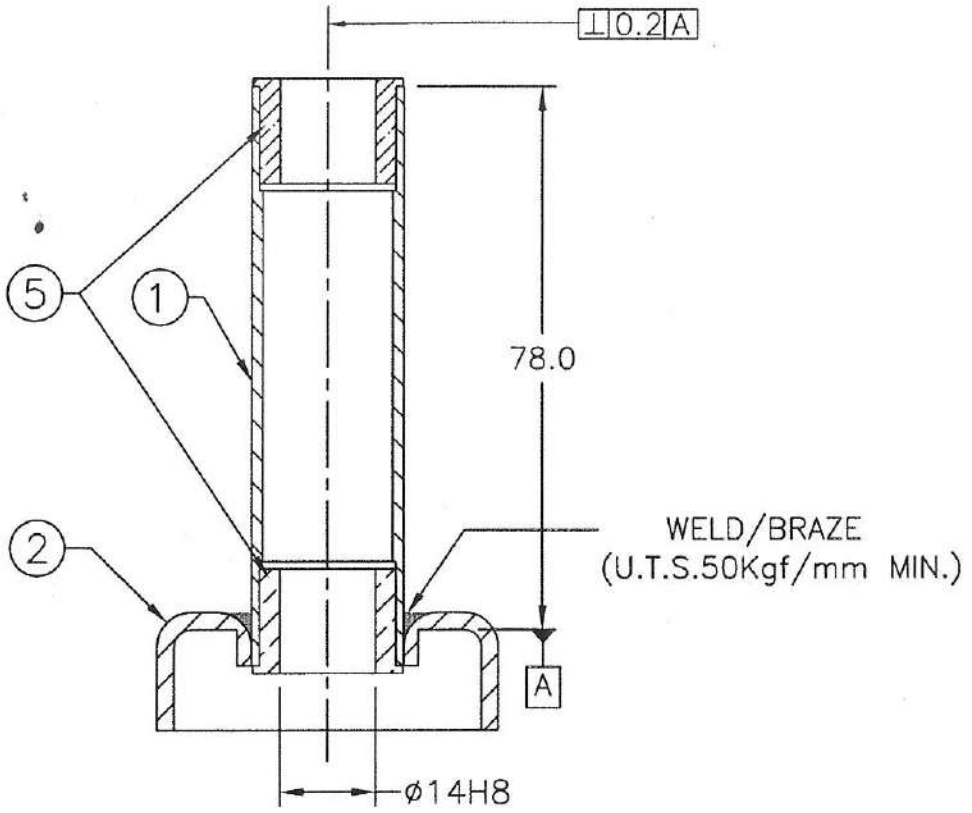
REVISIONS

ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR

DGN		NOM	TUBE UPPER
DRN		MTL	INDICATED
CHD		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		DRG No:- TD 2 C 51 A 03	SHEET 1OF1
DATE	25.09.1992		

01	K	5	162

ITEM No.	DRAWING No.	NOMENCLATURE	QTY	REMARKS
1.	TD 2 A 07 V A1	TUBE STEM	1	
2.	TD 2 A 07 V A2 TD 2 A 07 V 98	CUP ADAPTER	1	
5.	TD 2 A 07 V A5	BUSH SWIVEL	2	



NOTE:--

1. CLEAN WELDED JOINTS.
2. SECURE ITEM NO.5 AS SHOWN.
3. HAND REAM ø14 H8 IF REQUIRED TO ACHIVE FREE MOVEMENT OF STEM.

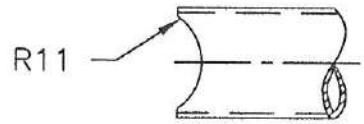
SNo.	REGION	REVISION	DATE	SIGN
5.	——	DRAWING REDRAWN	17.01.15	

REVISIONS

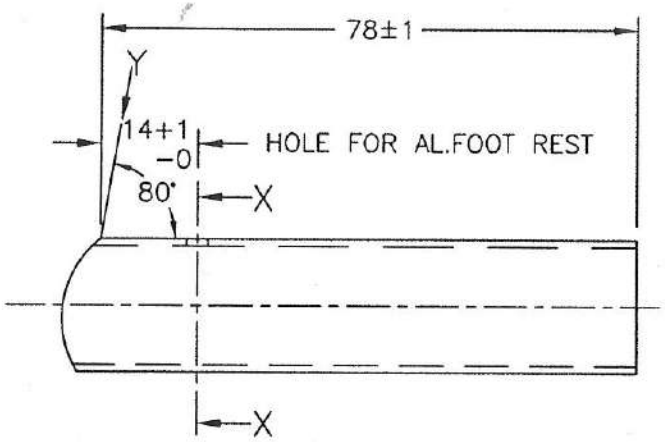
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

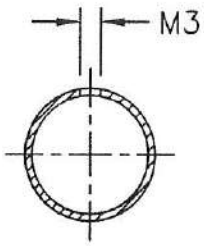
DGN		NOM	TUBE ADAPTOR ASSY.
DRN	Ashish	MTL	——
CHD		TOL	INTEGER ONLY ±0.500 mm ONE PLACE DECIMAL ±0.250 mm TWO PLACE DECIMAL ±0.126 mm UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	——
APP	Sal/DD	DRG No:- TD 2 A 07 V A0	SHEET 1OF1
DATE	11.04.1981		

01	K	8	086



VIEW IN DIRECTION 'Y'





SECTION–XX

NOTE:--

1.REMOVE SHARP EDGES & CORNERS.

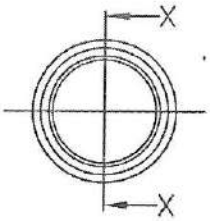
SNo.	REGION	REVISION	DATE	SIGN
13.	——	DRAWING REDRAWN	12.02.15	

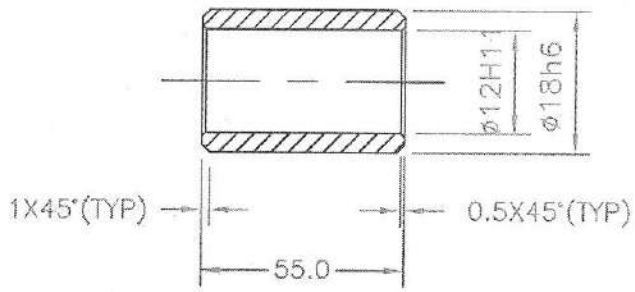
REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	TUBE FOOT REST
DRN		MTL	STEEL TUBE ERW C-1,OD 19.05 THICK 1.0mm IS:2039 ANNEALED (AF14)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm — UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	——
APP		DRG No:- TD 2 A 07 K 02	SHEET 1OF1
DATE	09.05.1978		

01	K	5	057





SECTION–XX

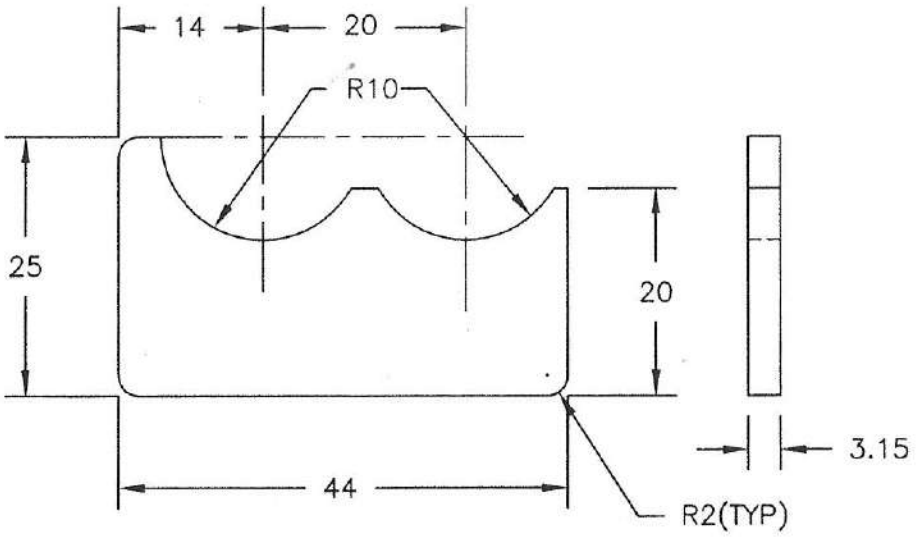
MTL:——
COLD DRAWN BRIGHT MS BAR ø 18 mm
13 S 25 (11 C 10 S 25) IS:9550 (AB 34)

NOTE:——
1. REMOVE SHARP EDGES & CORNERS.
2. WEIGHT – 60gms(APPROX)

SNo.	REGION	REVISION	DATE	SIGN
		REVISIONS		

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DRN	Kaushal	NOM	BUSH AXLE
CHD		MTL	INDICATED
DIM	IN mm	TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm — UNLESS SPECIFIED
SCALE	NTS	FIN	———
PROJ		DRG No:–TD 2 A 07 A 29	SHEET 10F1
APP			
DATE	12.02.2021		



NOTE:--

1. REMOVE SHARP EDGES & CORNERS.

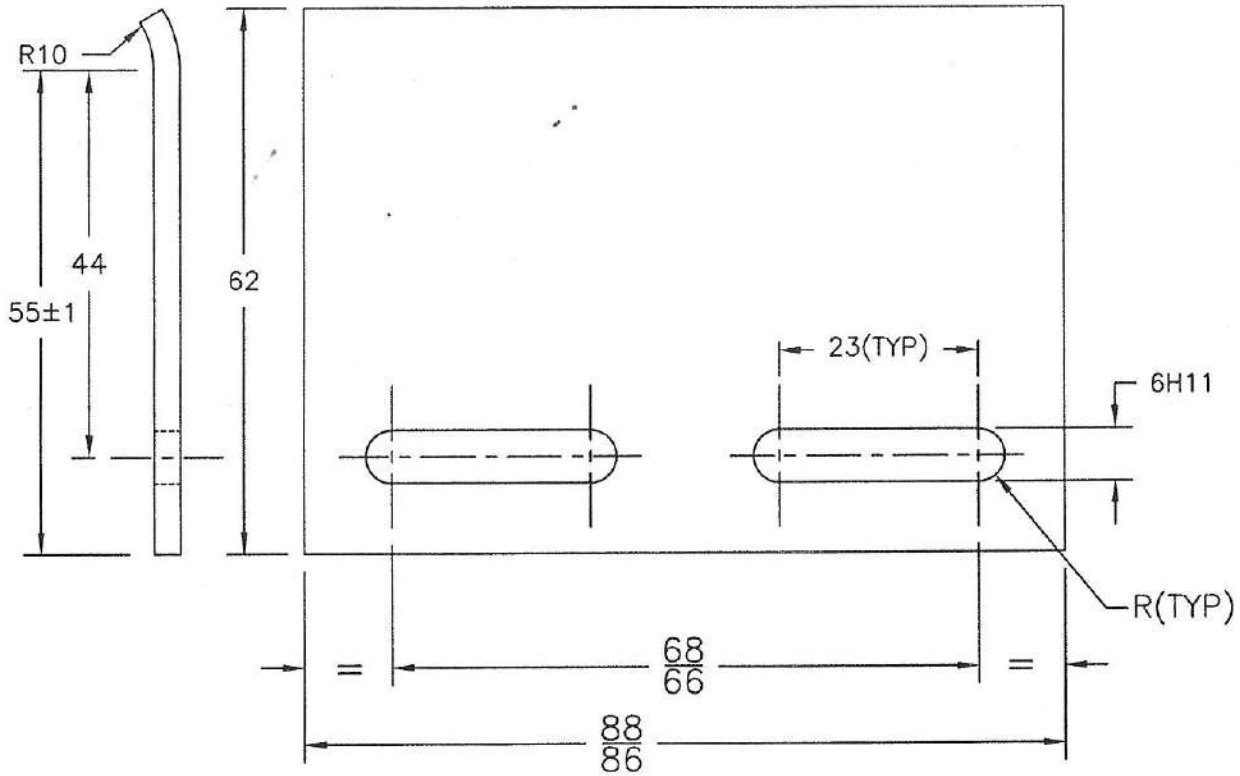
SNo.	REGION	REVISION	DATE	SIGN
1.	——	DRAWING REDRAWN	14.01.15	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	REST RAIL SEAT(REAR)
DRN	Ashish	MTL	SHEET MS HRA Gd'0' IS:1079 THK3.15mm (AA08)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm — UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	——
APP	Sd/ D.D.I	DRG No:-TD 2 A 07 A 28	SHEET 1OF1
DATE	25.01.1985		

01	K	8	096



NOTE:--

1.REMOVE SHARP EDGES & CORNERS.

SNo.	REGION	REVISION	DATE	SIGN
2.	——	DRAWING REDRAWN	14.01.15	

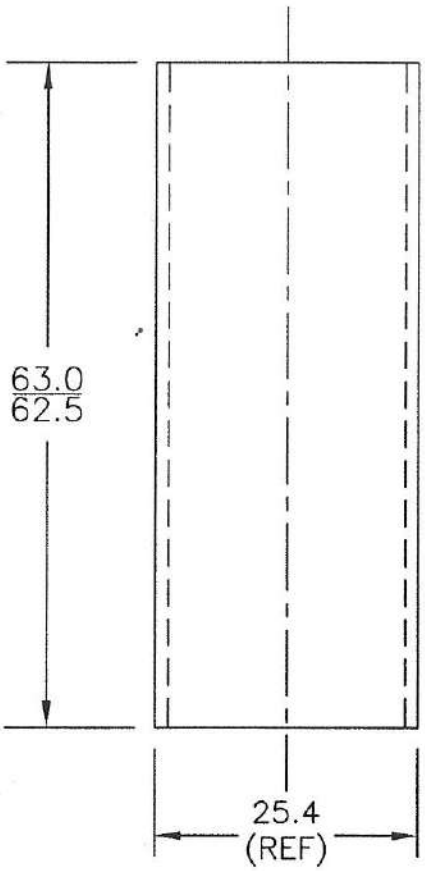
REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	BRACKET
DRN	Ashish	MTL	SHEET MS HRA Gd'O'IS:1079 THK3.15mm(AA08)
CHD		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	Sal/D.D	DRG No:-TD 2 A 07 A 25	SHEET 1OF1
DATE	10.05.1983		

01	K	5	189

5 4 3 2 1 — G F E D C B A



NOTE:--

1. REMOVE SHARP EDGES & CORNERS.

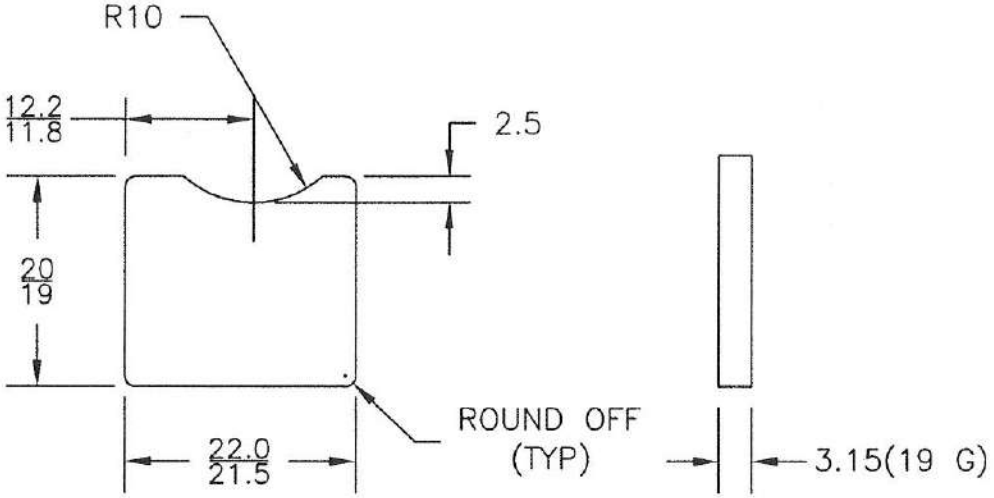
SNo.	REGION	REVISION	DATE	SIGN
8.	——	DRAWING REDRAWN	14.01.15	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	TUBE ADAPTER FRONT WHEEL
DRN	Ashish	MTL	STEEL TUBE ERW C1 OD 25.4mm THICK 1.25mm IS:2039 ANNEALED (AF 60)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm; UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	——
APP	Sal/ 20 1	DRG No:-TD 2 A 07 A 22	SHEET 10F1
DATE	16.01.1982		

01	K	8	085



NOTE:--

1.REMOVE SHARP EDGES & CORNERS.

SNo.	REGION	REVISION	DATE	SIGN
4.	———	DRAWING REDRAWN	14.01.15	

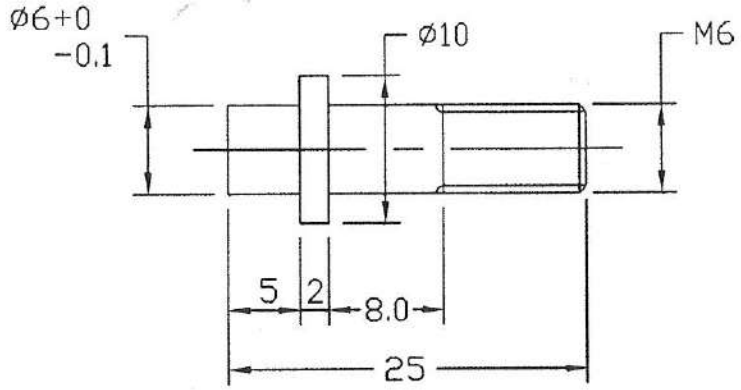
REVISIONS

ARTIFICIAL LIMBS
MANUFACTURING CORPORATION
OF INDIA
KANPUR

DGN		NOM	REST RAIL SEAT(FRONT)
DRN	Ashish	MTL	SHEET MS HRA Gd '0' IS:1079 THICK 3.15mm (AA 08)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm — UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	BUFF
APP	Sd/DD1	DRG No:-TD 2 A 07 A 20	SHEET 10F1
DATE	23.10.1978		

01	K	5	029

5 4



NOTE:--

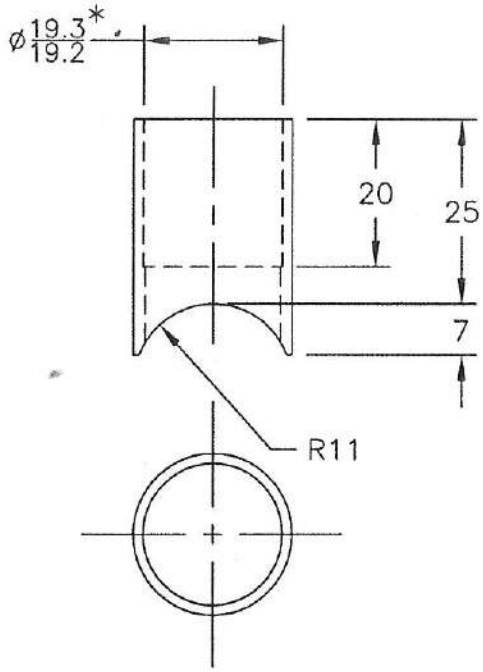
1. REMOVE SHARP EDGES & CORNERS.
2. WEIGHT – 6gms(APPROX)

SNo.	REGION	REVISION	DATE	SIGN
6.	A – 1	FINISH – Ni.Cr. PLATED DELETED	28.10.17	
5.	——	DRAWING REDRAWN	14.01.15	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN	Ashish	NOM	STUD
DRN	Ashish	MTL	BAR MS CRBA ø10mm, (11 C 10 S 25) AS PER IS:9550 (AB51)
CHD	Rao	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	DRG No:–TD 2 A 07 A 19	REV 6 / SHEET 10F1
APP	Sd/ DDI		
DATE	26.05.1978		



NOTE:--

1.*BORE/REAM IF TUBE FRONT (TD 2 A 07 A 02)IS NOT TELESCOPIC WITH NOMINAL DIMENSIONS.

2. REMOVE SHARP EDGES & CORNERS.

SNo.	REGION	REVISION	DATE	SIGN
4.	———	DRAWING REDRAWN	14.01.15	

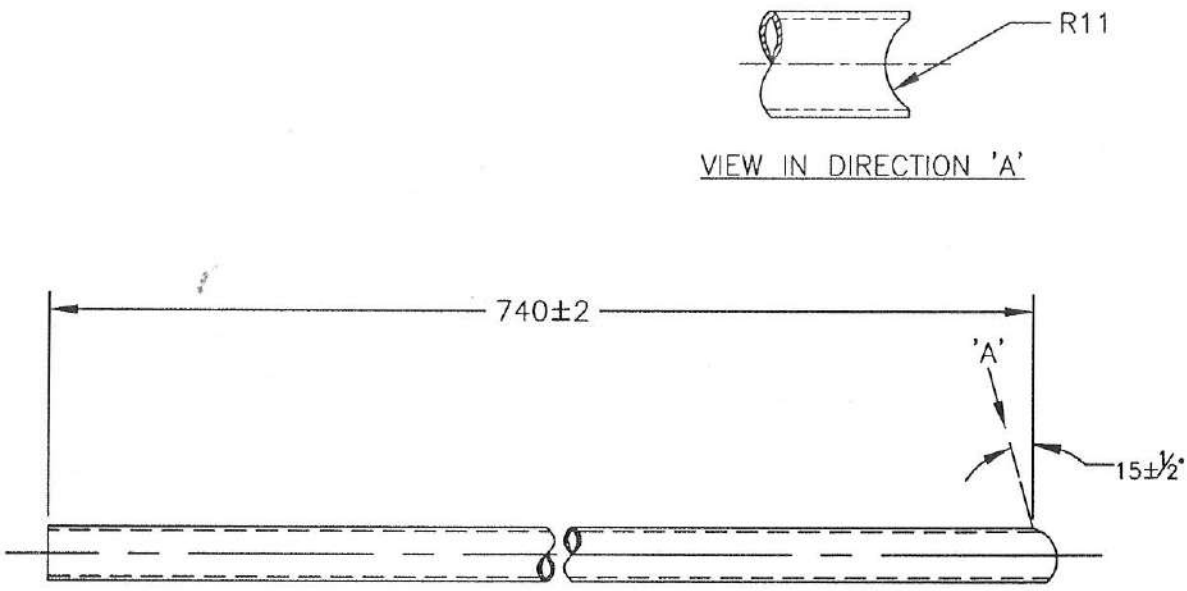
REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	EXTENSION FRONT
DRN	Ashish	MTL	STEEL TUBE ERW-C1 OD 22.23mm THK 1.6mm IS:2039 ANNEALED(AF13)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm — UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	———
APP	Sal/DD1	DRG No:-TD 2 A 07 A 01	SHEET 1OF1
DATE	26.05.1978		

01	K	5	012

5 4



NOTE:--

1. REMOVE SHARP EDGES & CORNERS.

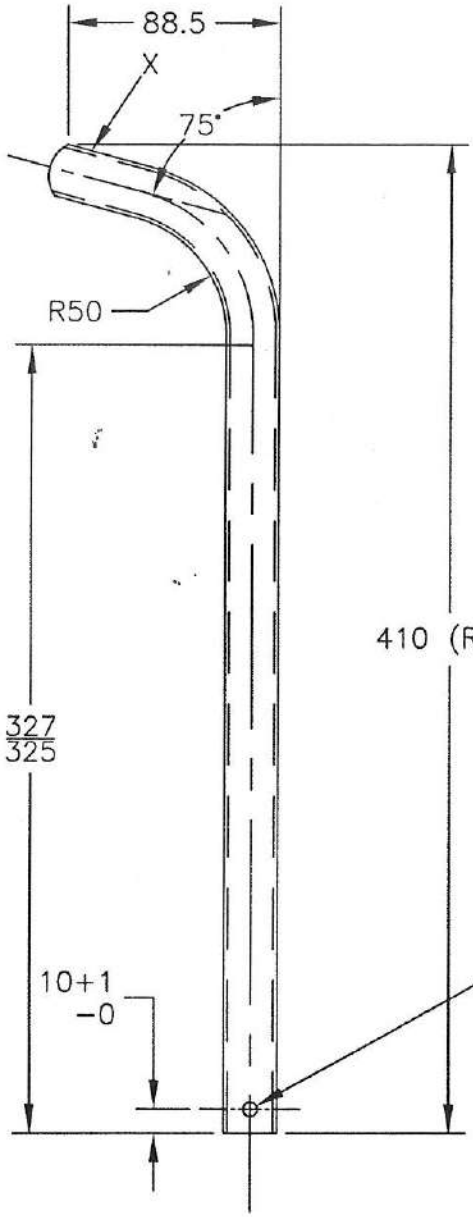
SNo.	REGION	REVISION	DATE	SIGN
8.	———	DRAWING REDRAWN	14.01.15	

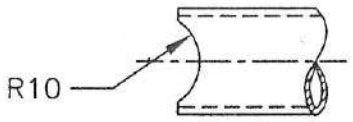
REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	TUBE LOWER
DRN	Ashish	MTL	STEEL TUBE ERW-C1 OD 22.23mm THK 1.6mm IS:2039 ANNEALED(AF13)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm — UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	———
APP	Sd/DD 1	DRG No:-TD 2 A 02 A 14	SHEET 1OF1
DATE	30.12.1982		

01	K	5	165





VIEW IN DIRECTION–X

NOTE:--

1. REMOVE SHARP EDGES & CORNERS.

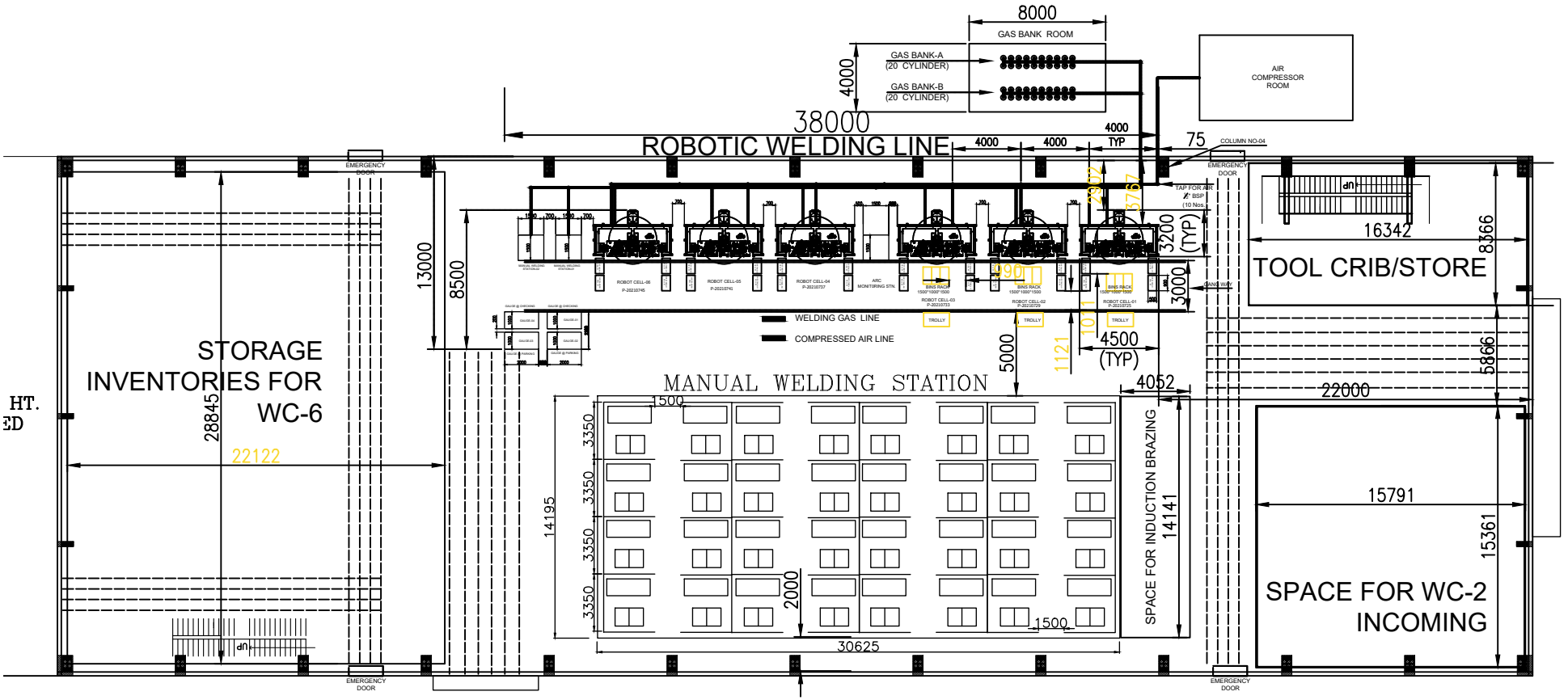
SNo.	REGION	REVISION	DATE	SIGN
17.	——	DRAWING REDRAWN	14.01.15	

REVISIONS

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR

DGN		NOM	TUBE MAIN FOOT REST SUPPORT
DRN	Ashish	MTL	STEEL TUBE ERW–C1 OD 22.23mm THK 1.6mm IS:2039 ANNEALED(AF13)
CHD		TOL	INTEGER ONLY ±0.500 mm; ONE PLACE DECIMAL ±0.250 mm; TWO PLACE DECIMAL ±0.126 mm — UNLESS SPECIFIED
DIM	IN mm		
SCALE	NTS	FIN	——
APP	Sd/DD1	DRG No:–TD 2 A 02 A 05	SHEET 1OF1
DATE	26.05.1978		

01	K	5	003


8000
GAS BANK ROOM
GAS BANK-A
(20 CYLINDER)
GAS BANK-B
(20 CYLINDER)
4000
AIR
COMPRESSOR
ROOM
38000
ROBOTIC WELDING LINE
4000
4000
4000
TYP
75
COLUMN NO-04
EMERGENCY
DOOR
TAP FOR AIR
½" BSP
(10 Nos.)
3200
(TYP)
3000
16342
8366
TOOL CRIB/STORE
13000
8500
WELDING GAS LINE
COMPRESSED AIR LINE
5000
1121
4500
(TYP)
5866
STORAGE
INVENTORIES FOR
WC-6
28845
22122
MANUAL WELDING STATION
1500
4052
22000
3350
3350
3350
3350
14195
2000
1500
30625
SPACE FOR INDUCTION BRAZING
14141
15791
15361
SPACE FOR WC-2
INCOMING
EMERGENCY
DOOR
EMERGENCY
DOOR
EMERGENCY
DOOR