ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA

(A GOVERNMENT OF INDIA UNDERTAKING MINIRATNA COMPANY) (UNDER MINISTRY OF SOCIAL JUSTICE & EMPOWERMENT)



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NOTICE

The Corporation has firmed up the Technical Specification regarding supply of Kit Consisting of Components for Behind the Ear (BTE) Hearing Aid – Digital Category- II & III alongwith Batteries & Ear Tips. The Techno CommercialSpecification/Tender Document Firmed up by Corporation are appended herewith to this notice.

Suggestions/Comments/Objections regarding Technical Specification firmed up by the Corporation, if any, are invited from all the concerned till 28.05.2018 at 1200 Hrs. of this Notice on our website for consideration by Corporation.

The Suggestions/Comments/Objections, if any, may be sent to e-mail : manager1_mm@alimco.in, dgm mm@alimco.in latest by 28.05.2018 up to 1200 Hrs.

Dy. General Manager (Materials)

| | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | | 2 | 1 | |
|--|--|---|--|--|---|---|---|--|--|---|--|----------------|
| PRODUCT No.B.O.No.NOMENCLATUREQTY.TD 0 E 16 0 00LH 71COMPONENTS FOR BEHIND THE EAR (BTE) HEARING AID-DIGITAL, CATEGORY-II01 | | | | | | | (iv) Housing Pair Assembly:- Housing Pair with "ALIMCO" & "ISI" Mark printing as per fig.1 shown below.Trimmer door,Trimmer Lable shall be printed as N-H & MPO and suitable indication of Trimmer position, Battery Door.Suitable Ear Hook For Housing pair assembly, plated with corrosion resistant material | | | | | |
| SPECIFICATIONS : ((i) Amplifier Assembl Complete digital Amplifieither through trimmer or material,Switch for microp both side of Amplifier asse Volume Control:- By sy ON-OFF :- On- Off switch The Amplifier Assembly sh | CONSISTING OF 1 y:- fier assembled with 1 push button, Positio hone & Tele - Coil m embly. Cleaned/unm witch or Rotary type to apply power eith | FOLLOWINGS SMD component: ve (+) & Negative node change, Auto nasked soldering e potentiometer were through switch | S:- s,Tone control (N- e(-) Battery Conta omatic Gain Contr points for Receive with min.4 stage n ch or the battery co | -H) & MPO Controls cts plated with corro ol Facility(AGC),mas er Assembly & Micro umbering like 1,2,3 ompartment cover/ | s shall be provided osion resistant sking/Insulation c ophone Assembly. & 4 etc. door. | 1 | cross pan he | ead tapping scro ir Assembly as p : 60 : 25 : 15 : AI : Ci : Th m ree th ba : Th ma ba ba ba | ews suitabl er over all mm Max. mm Max. 35 Gd.1 namon(Ski ee housing eethod of ba quire the u ebattery co tteries. e mass of entioned al ttery,ear In | le for Housing pair | assembly. Black gned that the t does not to open/close o replace the t-components wer excluding the all not exceed | he |
| Electro - acoustic Cha | racteristics :- | 105.15 | | | | | Serial Number to | be printed on I | Battery Doo | or /Housing as pe | r ALIMCO advid | ce. |
| (a) Max. OSPL 90 (b) HF Average OSPL 90 (c) HF Average Full on g | ain(At 50/60dh inn | : 125dB : 115dB ut): 50dB (| 8 to 124dB | | | | (v) Shelf Life | e of Kit | : 2 | 24 Months | | |
| (d) Frequency Range(e) Total Harmonic Dist(f) Battery Current | | : At leas : Should | st between 200Hz d not exceed 7% a sured at frequency | : to 4000Hz it 1.3V Nominal Batt y 500,800 & 1600Hz | tery voltage at RTG position | | (vi) Test Rep | | - 5 | May provide the H Analyser test repo sample quoted. | ort for the | |
| (g) equivalent input Noi (h) Induction Coil Sensit (At 10 mA/m) | | : ≤30 dH : 85 dB | B SPL | | | | (vii) Packing | • | F | tems/Componen backed so as to av luring transporta | oid damage | g. |
| (i) AGC Characteristics (i) Steady state inpu output character | | point | corresponding to | specified curves ma 70 dB input SPL,the | measured curve | | | PRINTING BLACK DN CDVER | | | | |
| (ii) Dynamic output | characteristics | manuf : The at | acturer for the mo tack & release tim | from the curves spectrum odel by more than \pm uses shall be within \pm | 5 dB. 5 milliseconds | 9 (105) A | A | 4 C-5 3 — | - NO | RK WITH CM/L No. A MENCLATURE MODI | FIED 09.07 | |
| (ii) Receiver Assembl | W: | manuf | acturer for the mo | arger,of the values s odel. | pecified by the | T // | LIMCO | 2 F-10 | | ation of Amplifier As | - | |
| Receiver suitable for suitable length of Lit Assembly.Receiver A | the BTE Hearing Ai z wires to be solder | ed to receiver po | ints with colour co | oding for assembly | with Amplifier | Fig. 1 | 7 | SNo. REGID | RE | REVISION VISI | DNS | TESI |
| receiver in Housing p litz wires of Receiver on Amplifier Assemb | air assembly of BTE Assembly.Other en | E Hearing Aid .Ma ds of Litz wires s | sking /Insulation shall be unmasked | shall be coated on s /not insulated suita | soldering noints & | CML-93000 | 19211 | M | | IFICIAL LIMB URING CORPO OF INDIA KANPUR | | |
| (iii) Microphone Asse Microphone suitable Suitable length of Lit | mbly:- for BTE Hearing Aid | d - Digital .Microp | phone completly a | ssembled with Boo | t & nozzle. | NOTE:- | | DGN DRN | | COMPONENTS FOR HEARING AID-DIC | BEHIND THE EA ITAL, CATEGORY | R (BTI Y-II |
| amplifier assembly 0 with amplifier assem connector of Micropl | OR Microphone with bly. Masking/Insula | a flat strip connect ation shall be coa | ctor to be soldered ated on soldering r | to Microphone points & Litz wires/ | nts for assembly flat strip | 1. SAMPLE OF TO BE GOT A BEFORE SUP | | CHD DIM IN mm | MTL TOL 🛱 | NTEGER DNLY NE PLACE DECIMAL WD PLACE DECIMAL | ±0.500 mm ±0.250 mm ±0.126 mm | UNLESS |
| insulated suitable to voltage 1.3 V. | soldering on Amplif | ier Assembly. Mi | icrophone shall be | able to work on no | minal battery | | | | FIN | B.0 - L LI | | SHEE |
| | 10 | 9 | 8 | 7 | 6 | 5 | 4 | DATE 18 02 20 | DRG | NO:- LH | 16 0 00 | 10F1 |

| | 10 9 | 8 7 | 6 5 | 4 | 3 | | 1 1 | |
|---|---------------------------------------|--|---|--------------------------------|-----------------------------------|--|---|--|
| PRODUCT No. | B.O.No. | NOMENCLATURE | QTY. | (iv) Housing P Housing Pair | with"ALIMCO" & "ISI | " Mark printing as p | er fig.1 shown | |
| | COMP | ONENTS FOR BEHIND THE EAR (BTE) | | below.Trimme | er door,Trimmer Lab | le shall be printed a | as N-H & MPO and | |
| TD 0 E 17 0 00 | | | 01 | | ation of Trimmer po | | | |
| | HEAR | RING AID-DIGITAL, CATEGORY-III | For Housing pair assembly ,plated with corrosion resistant material cross pan head tapping screws suitable for Housing pair assembly. | | | | | |
| DECIFICATIONS . | COMPONENTS FOR | DELUND THE FAD (DTE) HEADING AID D | CITAL CATECODY III | | | 01 | | |
| SPECIFICATIONS : | -COMPONENTS FOR | R BEHIND THE EAR (BTE) HEARING AID-D | GITAL, CATEGORY-III | Length | Assembly as per over : 60mm Ma | | | |
| | CONSISTING OF FO | LLOWINGS- | | Width | : 25mm Ma | | | |
| | dombiorinte or ro | LEO MINUS. | | Thickness | : 15mm Ma | | | |
| (i) Amplifier Asse | mhlv- | | | Material | : ABS Gd.1 | | | |
| | | MD components, Tone control (N-H) & MPO Controls | shall be provided | Colour | | (Skin),Cream,Brow | | |
| | | re (+) & Negative(-) Battery Contacts plated with corre | | Design | | ing should be so de | | |
| | | ode change, Automatic Gain Control Facility (AGC), mas | | | | of battery replacem | | |
| both side of Amplifier | assembly. Cleaned/unma | asked soldering points for Receiver Assembly & Micro | phone Assembly. | | | he use of tools,eithe | | |
| | · · · · · · · · · · · · · · · · · · · | | | | batteries | ry compartment or | to replace the | |
| | | All | | Mass | | s of the kit of all th | e 4 components | |
| Volume Control:- | By switch or Rotary type | potentiometer with min.4 stage numbering like 1,2,3 | & 4 etc. | 11455 | mentione | ed above taken toge | ther excluding the | |
| | | | | | | ar Insert & adaptor | | |
| | | r through switch or the battery compartment cover/de | bor. | | | luding the ear Tip/ | | |
| The Amplifier Assemi | ily shall operate on nomi | nal 1.3V Zinc - Air Battery/NIMH rechargeable batery. | | C | | D (11) | | |
| Electro - acoustic | Characteristics :- | | | Serial Number to c | e printed on Battery | Door / Housing as j | ber ALIMCO advice | |
| (a) Max. OSPL 90 | | : 135dB | | (v) Shelf Life | of Kit | 24 Months | | |
| (b) HF Average OSI | | : 125dB to 134dB | | (v) Shen bite | or me . | 2 T Montais | | |
| | l on gain(At 50dB input) | : 60dB (min.) | | (vi) Test Repo | rt : | May provide the | Hearing Aid | |
| (d) Frequency Rang | | : At least between 200Hz to 4000Hz | | (ii) reservept | | Analyser test re | U | |
| (e) Total Harmonio | Distortion | : Should not exceed 7% at 1.3V Nominal Batt | | | | sample quoted. | port for the | |
| (D. Dattant Comment | | measured at frequency 500,800 & 1600Hz | at RTG position | (vii) Packing R | equirement : | Items/Compon | ents shall be | |
| (f) Battery Current (g) equivalent input | | : ≤15 mA : ≤30 dB SPL | | | 1 | packed so as to | | |
| (h) Induction Coil S | | : 95 dB (min.) | | | | during transpor | tation & handling. | |
| (At 10 mA/m) | 5/ | | | | | | | |
| (i) AGC Characteri | stics | : | | SCREEN F | | | | |
| (i) Steady state | | : With the measured and specified curves ma | | | | | | |
| output char | acteristics | point corresponding to 70 dB input SPL, the | | | JVER | | | |
| | | at 50 & 90 dB input SPL from the curves sp | | K I | 3 C-5 ISI | MARK WITH CM/L No. | ADDED 09.07.1 | |
| (ii) Dumamia a | itput characteristics | manufacturer for the model by more than ± The attack & release times shall be within ± | S dB. 9 (S) Á | LIMCO | 2 F-10 Spe | ecification of Amplifier | Assy Modified 10.8.1 | |
| (II) Dynamic of | uput characteristics | 1 or $\pm 50\%$ whichever is larger, of the values s | necified by the | ~~~~ F | | ODUCT No.TD 0E 17 | | |
| | | manufacturer for the model. | Fig. 1 | \checkmark | SNO. REGION | REVISION | DATE | |
| (ii) Receiver Asse | mbly: | manufacturer for and models | | Ě | | | | |
| | | d - Digital ,Receiver completely assembled with cushio | on & coupler. 15:16127 | 7 | | EVISI | | |
| suitable length | of Litz wires to be soldere | ed to receiver points with colour coding for assembly | with Amplifier | ิ | | RTIFICIAL LIM | | |
| | | with or without Receiver Shield shall be suitable for a | | | MANUF A | ACTURING CORP | URATIUN | |
| | | Aid .Masking /Insulation shall be coated on soldering | | 19211 | | DF INDIA KANPUR | | |
| | | wires shall be unmasked/not insulated suitable to sole | lering on | | | | | |
| | | le to work on nominal battery voltage 1.3 V. | • |] | DGN | | OR BEHIND THE EAR DIGITAL, CATEGORY- | |
| (iii) Microphone | | | NOTE:- | 1 | DRN | | JIGITAL, CATEGORI- | |
| | | d - Digital .Microphone completly assembled with Boo | | SCREEN PRINTING | СНД МТ | | | |
| | | red to Microphone points with colour coding for assen flat strip connector to be soldered to Microphone poi | TO BE GOT AF | PPROVED | | INTEGER DNLY DNE PLACE DECIMA TWO PLACE DECIMA | ±0.500 mm UN ±0.250 mm SF | |
| | | ation shall be coated on soldering points & Litz wires/ | | PLY. | DIM IN mm | TWO PLACE DECIMA | L ±0.126 mm | |
| | | itz wires/flat strip connector shall be unmasked/not | | S | | [N | | |
| | | rophone shall be able to work on nominal battery volt | | 1 | APP | B.O - L | H 72 | |
| | 10 9 | 1 | 0 | - | | IRG Not- | | |



