## **ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA**

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



(An ISO 9001: 2015 Company) G.T. Road, Naramau Kanpur-209217 Visit us: www.alimco.in Email: mm\_office@alimco.in, alimco\_hq@vsnl.net, Tele Fax 0512-2770137, Ph. 2770174 TOLL FREE NO. 18001805129



## 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.
<ul> <li>(a) Max. OSPL 90</li> <li>(b) HF Average OSPL 90</li> <li>(c) HF Average Full on g</li> </ul>	ain(At 50/60dh inn	: 125dB : 115dB ut): 50dB (	8 to 124dB				(v) Shelf Life	e of Kit	: 2	24 Months		
<ul><li>(d) Frequency Range</li><li>(e) Total Harmonic Dist</li><li>(f) Battery Current</li></ul>		: 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	
<ul> <li>(g) equivalent input Noi</li> <li>(h) Induction Coil Sensit</li> <li>(At 10 mA/m)</li> </ul>		: ≤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	
<ul> <li>(f) Battery Current</li> <li>(g) equivalent input</li> </ul>		: ≤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-		



