No.4-2 (7)/2014/DD-I Government of India Ministry of Social Justice & Empowerment Department of Disability Affairs

Shastri Bhawan, New Delhi Dated the 23rd July, 2014

OFFICE MEMEORANDUM

Subject: Aids/devices approved for Visually Impaired for financial assistance under revised ADIP Scheme-forwarding of.

The undersigned is directed to say that the Scheme of Assistance to Disabled Persons for purchase/fitting of aids/appliances (ADIP), administered by the Department of Disability Affairs has been revised w.e.f. 01.04.2014.

2. Para 7: Quantum of Assistance, sub-para (ii) of the Scheme is as under:

"For providing modern assistive devices for all categories of PwDs both physical and mental and multiple disability impaired groups, e.g. Daisy Book players and other Talking Devices, Net Book Laptop and Digital Magnifiers for visual impairment and Behind the Ear (hearing aid) for hearing impairment, the items will be decided by an Expert Committee constituted in the Department of Disability Affairs with the approval of Minister for Social Justice & Empowerment......"

- 3. Accordingly an Expert Committee was constituted in the Department under the Chairpersonship of Secretary (DA) vide Order dated 11.04.2014 to decide and list out modern assistive devices for all categories of Persons with Disabilities (PwDs) under the revised ADIP Scheme. The Expert Committee held its First Meeting on 07.05.2014 in which 2 Core Groups were constituted, one for Hearing Impaired and the other for Visually Impaired for listing out the devices for Hearing Impaired and Visually Impaired, respectively.
 - 3. The Core Group for Visually Impaired in its meeting held on 23.06.2014 and the following lists have been finalized for financial assistance under revised ADIP Scheme:

- (i) List of 51 assistive devices showing indicative price, specifications and source of procurement meant for Visually Impaired as at **Annexure-I.**
- (ii) Category-wise Kits for Visually Impaired, showing indicative prices and source of procurement as at **Annexure-II**. These are Kit-1: For Primary School Children studying in Class 1 to 5, Kit-2: For Upper Primary School Children studying in Class 6 to 8, Kit-3: For Senior Secondary School students studying in Class 9 and 10, Kit-4: For students studying in Class 11 and 12 which has 2 sub-parts viz. Kit-4 (A) for Blind students and Kit-4 (B) for low vision students, Kit 5: For College Students which has 2 sub-parts i.e. Kit-5 (A) for Blind Students and Kit-5 (B) for low vision students and Kit-6: ADL Kit for Adults. Annexure-II also contains list of Common Low Vision Devices and list of High-end & Other Common Devices meant for visually impaired.
- 4. Aids/devices showing indicative price, specifications and source of procurement as contained in Annexure-I & II for Visually Impaired have also been approved by the Ministry in consultation with the Integrated Finance Division of the Ministry. All Implementing Agencies of ADIP Scheme may kindly see for information and appropriate action.

Encl: As above

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(S.K. Mahto)

Under Secretary to the Government of India

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- 1. Principal Secretary/Secretary, Department Social Welfare of States/UTs
- 2. All Implementing Agencies

Copy to:

- 1. PS to Hon'ble Minister (SJ&E)
- 2. PS to Hon'ble MoS (SJ&E)
- 3. PPS to Secretary (DA)
- 4. PS to JS (DA)
- 5. PS to JS & FA

List of assistive devices for Visually Impaired for financial assistance under the revised ADIP scheme.

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S.No.	5.1No. Name of the item	Specifications		Indicative cost	Source
		. Tr		<u> </u>	
 -	Smart cane	Type I: Normal cane	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Rs.	
		A Commence of Comm	1) Pe 11: Longer cane for fall	3000/-	M/s Phoenix
		for average height	users		Medical Systems
		users			Pvt. Ltd. Chennai
					(Proprietary item
		A set of 5 pieces are	A set of 5 pieces are as		- to check &
		as follows:	follows:		certify before
		Top pipe: 230mm	Top pipe: 230mm		Formement i
		Second pipe: 230mm	Second pipe: 230mm		
		Third pipe: 230mm	Third pipe: 230mm		
		Fourth pipe: 230mm	Fourth pipe: 230mm		
		Pottom pipe: 205mm	Bottom pipe: 230mm		
		A. Other pipe specifications	ications	•	
		1. Aluminium pipe of d	pipe of designation 19500 in	o e de	
		accordance with IS-3965-1969.	965-1969.	• 10	
		2. Other pipe dimensions:	ns:	. <u>5</u> 1787 - 1	
		• Out diameter: 12.8	Out diameter: 12.8mm (+0.1/-0.05 mm)		
-				-	

- Inner diameter: 10.22mm
- Thickness: 1.2mm
- The device should be mounted on the white cane and capable of detecting obstacles using sensors, from the knee- height up to the head height of the user.
- 2. The device should be capable of detecting obstacles, in front while tapping the cane, up to 3m further away from it. The user should have the option to reduce that detection range with the help of a switch.
- 3. Capable of conveying information about the obstacles distance with at least three different patterns of vibrations that vary with distance.
- 4. The device should be mounted on the white cane without increasing the original length of the white cane beyond a maximum of 50mm, it should allow the string on the top fold of the white cane to be retained and to be used for folding the entire unit attached to the cane. The device needs to be supplied mounted on the white cane with in two different heights: 44 inches and 48 inches with either 05 or 06 folds each. While mounted, the cane should still be foldable.
- 5. The user should be able to mount or detach the device to the cane without sighted assistance. The user should be able to adjust the angle of the sensors according to height of the user and angle

	HAIN	HAIN
	1000/-	400/-
of inclination of the white cane. 6. The device should have the sensitivity to detect at continuous rod of 30nm diameter at 3m in front of the device. 7. Built-in Rechargeable battery with at least 08 hours of use on a single charge. 8. Both the white cane and the sensor device together should be usable with a single hand only, keeping the other hand free 9. The total weight of the device (excluding the cane) should not exceed 150 grams. 10. The device must be accompanied with a user manual explaining functionality and use in		Dice Plate made of Ply board 1st quality ISI mark Size - 200 mm square Thickness - 19 mm with dice box 75 mm x 75 mmx70mm with fitted revolving hexagonal dice with 1 to 6 number as per sample complete
	Snake and Ladder with dice	Dice Plate
	7	m

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	NIVH				NIVH, Saksham	Trust							Open Market	;						
	y 1000/-		San Park		150/-				<u>a 7</u> ,7		 		1200/-	•				e + Nag		
	Ludo with dice made seasoned shisham wood 1st quality fitted with MDF board 1st quality with 4 types 4 each colour wood coins as per sample	Luno pogra outer size – 4/3mm Inner size – 455 mm	Thickness – 22mm fitted with MDF Board 2.5 mm upper sheet with playing & resting square with holes 4.2 mm and 6 mm MDF board layer book floor	laker polish as per sample.	 Set of two non-electronic pieces that would help 		Piece one: Made of rigid plastic with signature guide	easily in pocket.	 Piece 2: made of flexible material with cuts for 	currency measurement that fits well in both men	 Both pieces must identify all denominations from RS5 to Rs. 1000 	 To be supplied with matching wallet for women 	Quartz watch with two hands for minutes and hour	 easy to open lid from 6 o'clock position 	 Combination of two tactile dots to denote numbers 	3, 6 and 9; combination of three tactile dots for	number 12 and single tactile dot for rest of the	numbers,	 made of high grade stainless steel 	• leather strap
T 200 - 2011 35	Trado with dice				Signature guide	rhecker and	wallet						Braille watch /	Quartz Braille	watch (ladies and	Sents				-
P	H				rv	·					 		9							

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7	To Heiman			
•	I diking Wrist	 Time and Date Announcement. 	-/009	Onon Markot
	watch	 Four Talking Alarms 	70. 	Open Maine
		Full talking support for time and alarm setun		
		Talking Stopwatch		
		 Hourly Time Announcement - lets you hear the time 		
		every hour		
		All features of setting time, alarm etc. should be usable with		
		voice output		
ං ච	Smartphone	Smart phone specifications	10000/-	Onen Market
	with screen			Open Market
	reading software	→ Ram-1GB		
	for persons with		12000/- 10f Student	
	blindness	→ Display Specification- Minimum 4 inch display	with Disabilities	
		capacity		
	~			
		Android- 4.2.2 or higher / IOS 6.0 or higher	· Jan	
		A 2 Minute in the second secon		
		- 3.3 luch jack lor headphone/hands-free earphones.		
		→ 2GB internal memory, expandable up to 16 GB	45	
		→ Battery Capacity- at least 2400 MAH		
		·		
	٠	→ 8 mp camera		
		What have CDC WH TH and The		
		A trust have GF3, WI-F1 and Binetooth		
· · · · · · · · · · · · · · · · · · ·		→ Supports screen reading software, TTS installed in English and Hindi		

							Student						
→ Should be connected with Android Marketplace or Apple App Store	Should be supplied along with following application with that work with screen reading software:	→ Daisy and/or EPUB Book Reader Application capable of connecting with ONLINE LIBRARY.	➤ Word Processor Application	→ Mail Client and Web Browser Application	Phone dialer Messaging Contacts		capacitive Android- 4.2.2 or higher / IOS 6.0 or higher	3.5 inch jack for headphone/hands free earphones. 2GB internal memory, expandable up to 16 GB		→ Must have GPS, WI-FI and Bluetooth Supports screen reading software, TTS installed in	English and Hindi Should be connected with Android Marketulace or	Apple App Store Should be surnlied along with Magniffer.	application with following specifications:
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Open Market	Open Market	Open Market
2000/-	10000/-	10000/-
 → Magnification support up to 5x → Colour Contrast support normal and black on white → Ability to capture photograph and magnify → Maximum size 3.5 X 2.5 inches → Telephone style numeric keypad with additional buttons for functions → Bluetooth connectivity with phone and tablet with connectivity distance from the device up to 8 metres. → Inbuilt chargeable battery with backup of at least 8 hours per charge → Automatic Bluetooth Pairing with known/previously paired devices. 	 Computer Mouse shape camera unit Compatible with any TV/Monitor with a RGB Video Input Three (3) Viewing Modes: Full Colour High-Contrast Positive (Black on White) High-Contrast Negative (White on Black) Seven Levels of Digital Magnification 17.5x to 70x Digital Zoom on a 20" TV/Monitor Larger TV/Monitor may Increase Level of Magnification Ability to Freeze and De-Freeze current image magnification should be controlled with Gliding Wheel Mechanism Easy to Use - Plug and Play 	Hand held electronic video magnifier up to 5 inches • Magnification up to 10 X • 3.5 inch or higher TFT LCD display
Pocket size external keyboard for smart phone or tablet	Mouse-cum-Video Magniffer	Hand heid electronic video magnifier
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		U 07 + 30 C = 7 1/C 07	1500/-	٠

* For low vision – one may require 1 or 2 or 3 items

16 D Magnifier-

Surface R1/R2	Optical Grade	Polycarbonate
Properties	Material	

Conic Constant	(K)	-7.279962	
Base Radius	(Conic surface)	71.160 (VEX)	
Conic Surface		R2*	

20 D Magnifier-

Properties	Surface R1/R2
Material	Optical Grade
	Polycarbonate
Clear Aperture	45
Power (Ring/Pv)	9
Irregularity (fringe)	2 ring
Cosmetic Quality / Ra	60-40
EDGE Chamfer	0.45×25.0
Eccentricity	2′

Conic Surface	Base Radius	Conic Constant
	(Conic surface)	(K)
 R2*	46.77 (VEX)	-3.171162

24 D Magnifier-

Properties	Surface R1/R2
Material	Optical Grade
	Polycarbonate
Clear Aperture	45
Power (Ring/Pv)	9
Irregularity (fringe)	2 ring
Cosmetic Quality/Ra	60-40
EDGE Chamfer	0.45 x 25.0
Eccentricity	2′

	Conic Constant	(<u>X</u>)	-2.007178	
	Base Radius	(Conic surface)	34.84 (VEX)	
,	Conic Surface		R2*	

28 D Magnifier-

Properties	Surface R1/R2
Material	Optical Grade
	Polycarbonate
Clear Aperture	45
Power (Ring/Pv)	9
Irregularity (fringe)	2 ring
Cosmetic Quality / Ra	60-40
EDGE Chamfer	0.45 x 25.0
Eccentricity	2′

Conic Constant	(K)	-1.509501	
Base Radius	(Conic surface)	27.75 (VEX)	
Conic Surface		R2*	

Notes-

All dimensions are in mmTolerance on CT± 0.05 mm

Optical layout & Datasheet of the magnifiers

ONT.	Name of the nem	Specifications	Indicative cost	Source
			R	
E E	Tablet	Ram-1GB	10000/-	And a
		Display Specification- 7.0 inch display		Chen Warket
		capacitive		
		Android- 4.2.2 or higher / IOS 6.0 or higher		-
		3.5 inch jack for headphone/hands-free		
		earphones.		
		→ 2GB internal memory expandable up to		
		16GB or higher		
		→ Battery Capacity- Playtime up to 10 hours	•	
		Should be connected with Android	-	
		Marketplace or Apple App Store		
		→ Must have GPS, WI-FI and Bluetooth		
		connectivity	* .	
		→ Built in speaker and Microphone		
	-	Supplied with Wired or Bluetooth		
		keyboard		
		Must Support screen reading software with		
		TTS installed in English and Hindi		
		→ Voice Recognition support for Indian-		
				-

	 ★ Must be supplied with following applications usable with screen reading software: ★ Daisy and/or EPUB Book Reader Application capable of connecting with ONLINE LIBRARY. ★ Word Processor Application ★ Mail Client and Web Browser Application 		
Tablet of individual devices	 minimum 4 inch capacitive display Android- 4.2.2 or higher / IOS 6.0 or higher 3.5 inch jack for headphone/hands-free earphones. I6GB or higher storage Minimum Battery Capacity- Playtime up to 10 hours 5.0 or higher mp Camera Should be connected with Android Marketplace or Apple App Store Must have GPS, WI-FI and Bluetooth 	Z0000/- O	Open Market
	 connectivity Built in speaker and Microphone To be Supplied with Wired or Bluetooth keyboard Must Support screen reading software with TTS installed in English and Hindi Automatic switching of TTS according to the language of the text Voice Recognition support for Indian-English Must be supplied with following 		

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		Open Market
		-/000/-
applications usable with screen reading	 → Daisy and/or EPUB Book Reader Application capable of connecting with ONLINE LIBRARY. → Word Processor Application → Mail Client and Web Browser Application → Dual Core A5 or higher chip → Must support connectivity with online book store with reading granularity of word, sentence, paragraph and pages through screen reading software Must support spelling of word in book reading and word processing applications using screen reading software 	 Minimum 35 hours voice recording facility. Variable speed playback (slow down speed up to 75% or lower and speed increase up to 200% or higher) In Built Speakers Somm Stereo Earphone Jack In Built Text to speech facility in English and if possible Hindi as well. Support for playback of .MP3 and .Wav audio file formats Capability to read following digital book formats: DAISY 2.02 TOC only audio books DAISY 3.0 and EPub text only
		Daisy player with one additional speaker (Basic model)

Timer Fig.

·		Open Market
		. 20000/-
	c. DAISY 2.02 and DAISY 3.0 full text full audio synchronized books d. doc,.htm and .txt files d. doc,.htm and .txt files Reading of DAISY Books a. Go to next or previous page, b. Jump to specific page c.Go to previous or next chapter or sub section d. Go to previous or next phrase e. Jump forward or backward by specific time interval 9- Easy to use and identifiable user interface or buttons 10-Resume playback from last position in the book for at least last 10 read books 11-Facility to insert at least 99 book -marks and to jump to bookmarked positions cdeleting 13-Facility to read content from external memory such as memory card or USB memory such as memory card or USB memory stick at least up to 16 GB 14-Rechargeable battery with at least 8 hours usage per charge 15-Facility to transfer data through USB Facility to Auto shut down after specified time	 Minimum 35 hours voice recording facility. Variable speed playback (slow down
		Daisy player (Advance model)
		18

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Shood un to 750/ ou la serie de la serie d	increase in to 2000, out 1:1.	3. In Built Speakers	4. 3.5mm Stereo Earphone Jack	5. Connectivity to internet via Wi-Fi or 3g/4g	6. Compatibility with DAISY online protocol	7. In Built Text to speech facility in English	8. Support for playback of .MP3 and .Wav	9. Capability to read following digital book	formats:	DAISY 2.02 TOC only audio books	• DAISY 3.0 and EPub text only books	DAISY 2.02 and DAISY 3.0 full text full	audio synchronized books	• doc, htm and .txt files	10. Following Easy Navigation facility while	Reading of DAISY Books	• Go to next or previous page,	Jump to specific page	• Go to previous or next chapter or sub	section	 Go to previous or next phrase 	• Jump forward or backward by specific	time interval	Navigation by character or word when	reading with TTS	11. Resume playback from last position in the

	Open Market
	1.25 lakh (case by case)
book for at least last 10 read books 12. Facility to insert at least 99 book -marks and to jump to bookmarked positions 13. File Management like browsing, playing & deleting 14. Facility to read content from external memory such as memory card or USB memory stick at least up to 16 GB 15. Rechargeable battery with at least 8 hours usage per charge 16. Facility to transfer data through USB 17 Facility to Auto shut down after specified time	Refreshable Braille Display System 1. To be able to display at least 40 Braille Cells at a time. 2. Connectable to the computer via USB port and Bluetooth. 3. Inbuilt rechargeable battery. 4. Must have at least 8 configurable navigation keys. 5. Must have one cursor routing key per Braille Cell. 6. Must have brailler type six keys for typing commands or text on computer Syping commands or text on computer Screen reading software for windows and Linux. 8. Should include software for reading Braille formatted files.
	Refreshable Braille Display
	19

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To the

		Open Market Open Market	Open Market
		20000/-	25000/-
	9- Should attach certificates of satisfactory performance of the equipment from the at least three user agencies from Europe and three from North America & Japan. 10- Must produce evidence of turnover of Rs. 1,50,00,000/-per year from the last two years equivalent to US\$ 283000 11- Reliable Service back -up in India. 12- One year warranty with onsite service arrangement & provision of an alternative piece of equipment till the unit is repaired and returned	Screen Reading Software for blind: Bi- lingual edition Hindi & English with Indian accent voice. Screen Magnification Software with Speech for low vision	 (1) Intel Core i3, 3110M, 2.4 GHz with 3MB Smart Cache or better, (2) Operating System Window 8 Professional, (3) IVY Bridge Configuration, (4) Mobile Intel 7 Series or higher chipset, (5) 4GB 1333 MHz DDR3 RAM or hugher Expandable up to 8GB, (6) HDD 500 GB, 5400 rpm (min) SATA, (7) Display 14" (35.56 cm) or above TFT active matrix wide screen display, 1366 x 768 WXGA or higher, (8) Integrated Intel HD Graphics, Integrated Wireless b/g/n, Integrated
	;	Software Screen Magnification Software	Laptops with screen reading software
L-	6	27 28	22

		Bluetooth.		
		Integrated DVD Writer 8x and Integrated Stereo,		
		Key Board with touch pad,		
		(9) 3 USB, 10/100/1000 Ethernet card,		
		RGB or Video or VGA, HDMI/Mini DP,		
		Microphone In, Headphone In & other standard		
	-	features,		
		(10) Preinstalled and Norton/Mcafee/e-trust, &		
		other software, Antivirus software latest version		•
		with 3 years license,		
		(11) 230V, 50 Hz AC Supply with rechargeable		
		Battery pack Comprising of Li-Ion/Li-Polymer		
		battery Suitable pack Approx.		
		(12) 4hours operation complete with battery		
		charger/adaptor, Less than 2.5 kg with DVD		
		Writer,		
		(13) Carry case, 3 years warranty		
		or		
		higher		
23	Cubarithem	The Cubarithm device (Math teaching aid and	5000/- Open Market	Tarket
		working trame for visually impaired persons)		
		consists of 200 plastic cubes with magnetic		
		properties along with single lifting device,		
		empossed with Braine signs using the upper four		
		dots (1, 2, 4 and 5) and an embossed line. Frame/		
		board structure should accommodate 20x15 cells work board to enable the users to perform		
		Arithmetic calculations.		
		100 X 9 mm square cubes.		
		and the state of t		

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		Plastic cont	Plastic container for the cubes		
	•	Plastic 20 X 1 19cm X 1cm.	15 cell work board measuring 25cm X	. 12	
		Horse shoe magn X 28mm X 8mm.	Horse shoe magnet and Keeper, measuring 24mm X 28mm X 8mm.		
		1, 47		:	
24.	Radio + CD PLAYER			2000/-	Open Market
22	Interline Braille Slate Big with two line Guide & Clamp fitted + two Plastic Stylus	Slate -Laminated Particle Board Guide & Clamp- G.I. Sheet Stylus – HDP Plastic 1 st quality	Slate – 357mm x 242mm x 9mm Clamp – 121.5mm x 53.5mm x 1.2mm with two pin & hole on top & two pin & hole on bottom pieces Guide – 302mm x 32mm x 1.2mm with 36 cell on top pieces & 297mm x 32mm x 1.2 mm with 36 embossed dot complete with 3 Nos. of locating pin aluminium on bottom pieces Stylus – 45mm plastic length x 20.5mm dia round head x 11.5mm centre dia x 7mm tapper bottom dia fixed with stainless steel pin 30mm mould inside x 15.5mm outer length x 1.3mm thickness with ball head round smooth	200/-	NIVH
26.	Interline Braille Slate Small with	Laminated Particle Board	Slate – 291mm × 190mm × 9mm Clamp – 121.5mm × 53.5mm × 1.2mm	100/-	NVH

 $\begin{aligned} & \frac{1}{2\pi i} \left(\frac{E_{i} (\theta_{i})}{E_{i}} \frac{E_{i} (\theta_{i})}{E_{i}} \right) + \frac{1}{2\pi i} \left(\frac{E_{i} (\theta_{i})}{E_{i}} \right) + \frac{1}{2\pi i} \left(\frac{E_{i} (\theta_{i})}{E_{i}} \right) \\ & = \frac{1}{2\pi i} \left(\frac{E_{i} (\theta_{i})}{E_{i}} \right) + \frac{1}{2\pi i} \left(\frac{E_{i} (\theta_{i})}{E_{$

. 4				
		NIVH	NIVH.	HANN
		200/-	150/-	150/-
	with two pin & hole on top & two pin & hole on bottom pieces Guide – 260mm x 32mm x 1.2mm with 28 cell on top pieces & 255mm x 32mm x 1.2 mm with 28 embossed dot complete with 3 Nos. of locating pin aluminium on bottom pieces	Peg Board – 180mm Square x 3mm complete with 100 holes & with four Nos. of Nylon buffer fitted on at corner side of bottom	Wooden Frame – 248mm x 304.5mm x 12.5mm fitted with 3mm hard board on bottom side Perforated/Punching Aluminium Sheet – 235mm x 229.5mm x 1.2mm complete with 25 holes x 25 rows Types – 4mm square thickness x one side 16mm height with 1.7mm x 1.5mm two dot x other side 15.5mm height with slot 4mm x 1.5mm x 1.5mm thickness	Wooden Frame – 211mm x 304.5mm x 12.5mm fitted with 3mm hard board on bottom side Perforated/Punching Aluminium Sheet – 192.5 mm x 229.5mm x 1.2mm complete with 25 holes x 18 rows
	Guide & Clamp- G.I. Sheet	Hard Board & HDP Plastic Coins	Seasoned Shisham wood fitted with Hard board & Perforated Aluminium Sheet Types – 80% Leads & 20% Tin	Seasoned Shisham wood fitted with Hard board & Perforated Aluminium Sheet
	two line Guide &	Peg Board with 100 Plastic Coins	Taylor Frame Big with Arithmetic Types	Taylor Frame Small
		27	% 78	70

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30. Inter Point Braille Slate	e ABS Plastic	Top - 305mm x 220mm x 2.7mm with 30 cell x 27 line	100/-	NIVH
Slate	-	30 cell x 27 line	- 100+	
	J. P. T.			
	-	Bottom - 305mm x 220mm x 2.7mm		
\top		with 30 dot embossed x 27 Line		
 Measuring kits 	ABS Plastic	310 mm x 35mm x Tapper thickness-	200/-	
		3mm centre & 2mm both side	•	a d
		moulded with one side inches &		
-	d -	other side centimetre		•
32. Measuring kits	ABS Plastic	158 mm x 35mm x Tapper thickness-	200/-	NIVH
		3mm centre & 2mm both side		7
		moulded with one side inches &		
	-	other side centimetre		
32. Cricket Ball	HDP Plastic No.	Outer dia 73mm x wall thickness	35/-	NIBVE.
	6303 Milky White	7.5mm, steel balls 3/16" x 24 Nos.) }	
	1st Quality	fitted inside of the ball,		
		Net Weight - 70 to 80 gms		
34. Abacus	ABS Plastic	150mm x 91mm x 9mm, 30 holes on	-/09	HAIN
		top, middle & bottom for stainless	•	
	*****	steel wire with beads 5x 13 rows	-	
		passing through the holes also with		
		foam inside for supporting the beads		
		Steel wire - 90mm x1.8mm thickness		
		Milky white beads – outer dia – 7mm	**	
		x inner dia 1.9mm		
		White Foam thickness-5mm		
Tactile Drawing	Seasoned		150/-	Onon Markot
Board	Shisham wood			Open Mainet
	fitted with base			
	Duro ply 1st			
	quality &			

											NNH	w									All India Chess	Federation	Z = Z = Z = Z = Z = Z = Z = Z = Z = Z =				HAN		
								•		-	100/-										-/009		1500/-				125/-		
											Shisham wood - 350mm x 225mm x	12.5mm	MDF Board – 350mm x 225mm x	6mm including providing Black square	25mm x 3.17mm thickness with	centre hole dia 6.3mm in both Black	& MDF down square	Plastic Coins – 32 coins in each set (16 black without top pointed & 16	white with top pointed)			LSOMM X LLSMM X SMM	Dot empossed in rigure of Science	(Biology, Physics, Electronic) & Maths		Ply Board - 290mm x 220mm x 6mm	Hard Board 290mm x 220mm x 3mm	
										1 ja	Seasoned	Shisham wood	fitted with base	MDF Board &	HDP 1 st quality	Plastic Coins	,	· "e.,	;		14 <u>.</u> 1	ABC Mactic	Abs plastic				Duro Ply 1st	quality & Hard	Board 1st anality
Quarter	Protector	Plastic	8. Serrated circle	Plastic fitted	with GI Guide	9. 10 Nos	Locating Pin	Pointed	aluminium		(A) Chess Board	with Plastic Coins									(B) Chess Kit	Tartile Disgram	Sot Sot	100 gr 400 y	(set of 96	Heces)	Scrabble Board	with Plastic	Coins (A to 7 & o
							. <u>.</u>		·		တ်						···		- "	•••		98					9	•	

					HAIN		-							HAIN															
					300/-									200/-							100/	- /00+							
x 10 line y 13 rowrs	Plastic Coins – upper side 22mm	square & lower side 9mm square	embossed with A to Z (99) & 0 to 9	(10) in Print & Braille	Shisham wood - 350mm x 225mm x	12.5mm	MDF Board – 350mm x 225mm x 6mm	including providing Black square 25mm x	3.17mm thickness with centre hole dia	6.3mm in MDF down square only	Plastic Coins - 32 coins in each set (16	black without top pointed & 16 white	with top pointed)	Aluminium Pipe outer dia 12.7mm x	inner dia 10.2 mm x Thickness 1.2mm	including inside cutting ~	Top Pipe - 215mm x 1	Middle Pipe – 230mm x 3	Bottom Pipe - 205mm x 1	fitted with Elastic, Plastic Top & Nylon	Aluminum Pine outer die 12 7mm vinner	dia 10.2 mm x Thickness 1.2mm including	inside cutting –	Top Pipe – 215mm x 1	Middle Pipe – 230mm x 2	Bottom Pipe - 205mm x 1	fitted with Elastic, Plastic Top & Nylon	Tip	
					Seasoned Shisham	wood fitted with	base MDF Board &	HDP 1st quality	Plastic Coins					Aluminium Pipe	sleeved with Lining	PVC Pipe Milky	White				Aluminium Pipe	sleeved with Lining	PVC Pipe Milky	White					
to 9)					Draught Board	with Plastic	Coins							Folding Stick with 5	Segments	Total length – 106	E C				Folding Stick with 4	Segments	Total length – 87	cm				-	
					41.									42.							43.								

		wood & MDF Board thickness fitted with duro ply 3mm base Puzzle Segment – MDF Board 6mm x 8 Nos. Various size with 25mm black	300/-	Z Z
Arithmetic Types	ţic	Made of 80% lead & 20% Tin as per sample.	125/-	2
Algebra Types,	Types,	Made of 80% load & 20% Tin	per Kg	
			125/-	NIVH
Brailler		Brailler 25 lines with 42 cell on an 11"X 11% "chant of	per kg	
		(Carry case)	35,000/-	Open
				Market/
				Worth
Talking		Should appoint the receipt of the Line		Trust.
Glucometer	ter	 Should store the reading in its internal memory 	-/0008	Open
		 Should be able to provide an average blood glucose reading function 		Market
		Alert for insufficient blood,		
	_	 Low battery. 		
		Wet/used strip.		
		 Memory damage. 		
		• All the functionality of the device should be accessible through clear andible weigh		
Talking Blood	poo	• Should announce the measurement in a clear audible voice	10000	
Pressure		 Should be able to store the records in its internal memory. 	3000/-	Coen
Monitor		 Should be able to provide following notifications in clear audible voice 		Market
		o incorrect measurement.		
		o Irregular heartbeat.		
		o Internal errors in monitor		
		 Should have automatic switch-off. 		
		• All the functionality of the davice should be seemed.	-,-	

Audio Labeller • An electronic audio labelling device that enables recording and playback of audio labels associated with self sticking labels. The electronic device must have In built 4GB memory Rechargeable battery that would enable device to work for 4 to 5 hours of continuous use on a singly recharge. USB connectivity for data transfer, firmware update and charging of the battery. Simple to use re-record audio associated with any compatible label. To be supplied with labels with following specifications: At least 250 self sticking paper labels compatible with the sonic labeller. I taking At least 40 unique washable labels that could be stuck or stitched to clothes Should announce the body temperature in clear audible voice. Should have the option of temperature announcement in Degree Celsius or Farenheit. Should have an option of Automatic switch-off. All the functionality of the device should be accessible through clear audible voice.		_					
 The electronic device must have In built 4 GB memory Rechargeable battery that would enable device to work for 4 to 5 hours of continuous use on a singly recharge. USB connectivity for data transfer, firmware update and charging of the battery. Simple to use re-record audio associated with any compatible label. To be supplied with labels with following specifications: At least 250 self sticking paper labels compatible with the sonic labeller. It should be possible to purchase at least 2000. More unique compatible labels different to the first 250 labels. At least 40 unique washable labels that could be stuck or stitched to clothes Thermometer Should announce the body temperature in clear audible voice. Should have the option of temperature announcement in Degree Celsius or Farenheit. Should have an option of Automatic switch-off. All the functionality of the device should be accessible through clear audible voice. 	ž		•	An electronic audio labelling device that enables recording and playback of andio labels	70000		
 The electronic device must have In built 4 GB memory Rechargeable battery that would enable device to work for 4 to 5 hours of continuous use on a singly recharge. USB connectivity for data transfer, firmware update and charging of the battery. Simple to use re-record audio associated with any compatible label. To be supplied with labels with following specifications: At least 250 self sticking paper labels compatible with the sonic labeller. It should be possible to purchase at least 2000. More unique compatible labels different to the first 250 labels. Talking Should announce the body temperature in clear audible voice. Should have the option of temperature announcement in Degree Celsius or Farenheit. Should have an option of Automatic switch-off. All the functionality of the device should be accessible through clear audible voice. 				associated with self sticking labels.	-/2005		
 In built 4 GB memory Rechargeable battery that would enable device to work for 4 to 5 hours of continuous use on a singly recharge. USB connectivity for data transfer, firmware update and charging of the battery. Simple to use re-record audio associated with any compatible label. To be supplied with labels with following specifications: At least 250 self sticking paper labels compatible with the sonic labeller. It should be possible to purchase at least 2000. More unique compatible labels different to the first 250 labels. At least 40 unique washable labels that could be stuck or stitched to clothes Talking Should announce the body temperature in clear audible voice. Should have the option of temperature announcement in Degree Celsius or Farenheit. Should have an option of Automatic switch-off. All the functionality of the device should be accessible through clear audible voice. 			•	The electronic device must have		Market	
o Rechargeable battery that would enable device to work for 4 to 5 hours of continuous use on a singly recharge. O USB connectivity for data transfer, firmware update and charging of the battery. Simple to use re-record audio associated with any compatible label. To be supplied with labels with following specifications: At least 250 self sticking paper labels compatible with the sonic labeller. It should be possible to purchase at least 2000. More unique compatible labels different to the first 250 labels. At least 40 unique washable labels that could be stuck or stitched to clothes At least 40 unique washable labels that could be stuck or stitched to clothes Should announce the body temperature in clear audible voice. Should have the option of temperature announcement in Degree Celsius or Farenheit. Should have an option of Automatic switch-off. All the functionality of the device should be accessible through clear audible voice.				o in built 4 GB memory			
on a singly recharge. USB connectivity for data transfer, firmware update and charging of the battery. Simple to use re-record audio associated with any compatible label. To be supplied with labels with following specifications: At least 250 self sticking paper labels compatible with the sonic labeller. It should be possible to purchase at least 2000. More unique compatible labels different to the first 250 labels. At least 40 unique washable labels that could be stuck or stitched to clothes Should announce the body temperature in clear audible voice. Should have the option of temperature announcement in Degree Celsius or Farenheit. Should have an option of Automatic switch-off. All the functionality of the device should be accessible through clear audible voice.							
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To be supplied with labels with following specifications: At least 250 self sticking paper labels compatible label. It should be possible to purchase at least 2000. At least 40 unique washable labels that could be stuck or stitched to clothes At least 40 unique washable labels that could be stuck or stitched to clothes Should announce the body temperature in clear audible voice. Should have the option of temperature announcement in Degree Celsius or Farenheit. Should have an option of Automatic switch-off. All the functionality of the device should be accessible through clear audible voice.							
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 At least 250 self sticking paper labels compatible with the sonic labeller. It should be possible to purchase at least 2000. More unique compatible labels different to the first 250 labels. At least 40 unique washable labels that could be stuck or stitched to clothes. Should announce the body temperature in clear audible voice. Should have the option of temperature announcement in Degree Celsius or Farenheit. Should have an option of Automatic switch-off. All the functionality of the device should be accessible through clear audible voice. 			•	To be supplied with labels with following specifications:			
O It should be possible to purchase at least 2000. O More unique compatible labels different to the first 250 labels. O At least 40 unique washable labels that could be stuck or stitched to clothes Talking Should announce the body temperature in clear audible voice. Should have the option of temperature announcement in Degree Celsius or Farenheit. Should have an option of Automatic switch-off. All the functionality of the device should be accessible through clear audible voice.							
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Talking Should announce the body temperature in clear audible voice. Thermometer Should have the option of temperature announcement in Degree Celsius or Farenheit. Should have an option of Automatic switch-off. All the functionality of the device should be accessible through clear audible voice.				 More unique compatible labels different to the first 250 labels. 			
Talking Should announce the body temperature in clear audible voice. Should have the option of temperature announcement in Degree Celsius or Farenheit. Should have an option of Automatic switch-off. All the functionality of the device should be accessible through clear audible voice.	- 1			At least 40 unique washable labels that could be strick or stirched to clother.			
 Should have the option of temperature announcement in Degree Celsius or Farenheit. Should have an option of Automatic switch-off. All the functionality of the device should be accessible through clear audible voice. 		Talking	•	Should announce the body temperature in clear andihla voice	, 000		- 1
 Should have an option of Automatic switch-off. All the functionality of the device should be accessible through clear audible voice. 		Thermometer	•	Should have the option of temperature announcement in Doggo, Coloing of Samueland	-/00‡	oper :	
 All the functionality of the device should be accessible through clear audible voice. 			•	Should have an option of Automatic switch-off.		Market	
			•	All the functionality of the device should be accessible through clear audible voice.			
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DRAFT LIST OF ASSISTIVE DEVICES FOR VISUALLY IMPAIRED SUGGESTED BY THE EXPERTS DURING EXPERT COMMITTEE MEETING HELD ON 7.5,2014

KIT -1: FOR PRIMARY SCHOOL CHILDREN FROM 1ST TO 5TH CLASS

Sl.	Name of the assistive device	Indicative	Source
No.		price in Rs.	
1.	Interline Braille Slate with two stylus	200/-	NIVH
2.	Taylor frame with arithmetic types (250 grams) with packing box	150/-	NIVH
3.	Abacus (Inclusive Design)	60/-	NIVH
4.	Drawing Board with 20 sheets	300/-	NIVH
5.	Two Braille scales (6" and 12") (Inclusive Design)	12/-	NIVH
6.	Puzzles (Inclusive Design)	300/-	NIVH
7.	Peg Board (Inclusive Design)	200/-	NIVH
8.	Tactile book of drawings of major monuments, shapes of tall trees, types of houses, bridges, dam etc.	500/	Yet to be designed and developed-to be added later
9.	One adapted board game with Dice	1000/	NIVH
10.	Auditory balls (2 in nos.)	32/-	NIVH
11.	Scrabble board (Inclusive Design)	125/-	NIVH
12.	Small white folding cane (Four folds with packing)	80/-	NIVH
13.	Cubarithem	5000/-	Open Market
14.	Talking wrist watch	400/-	Open Market
15.	Kit bag/specially designed school bag for assistive devices	1000/-	NIVH
	Total	9559/-	

KIT -2: FOR UPPER PRIMARY SCHOOL CHILDREN FROM CLASS 6^{TH} TO 8^{TH}

Sl.	NT	T 10 /0	
No.	Name of the assistive device	Indicative price in Rs.	Source
1.	Inter point Braille Slate with two stylus (large)	100/-	NIVH
2.	Interline Braille Slate	200/-	NIVH
3.	Taylor frames large with Arithmetic Types (250 grams) with packing box	150/-	NIVH
4.	Taylor frames large with Algebra Types (250 grams) with packing box	150/-	NIVH
5.	Tactile Geometry Kit with 20 raising sheets	500/-	NIVH
6.	Drawing Board with 20 raising sheets	150/-	NIVH
7.	Tactile Draught Board (Inclusive Design)	300/-	NIVH
8.	Tactile Chess Board (Inclusive Design)	500/-	NIVH
9.	One accessible board game	1000/-	Should be included at a later stage after ensuring mass production.
10.	Tactile diagram set for Science teaching	1500/-	NIVH
11.	Pocket Frame	45/-	NIVH
12.	Audio labeller (Inclusive Design)	3000/-	Open Market
13.	Signature guide with rupee checker and wallet	150/-	NIVH, Saksham Trust
14.	Braille wrist watch	1200/-	HMT, Saksham Trust, Karishma Enterprises, M/s Barrier Break Technologies
15.	White folding cane	200/-	NIVH
16.	Measuring kit (inch tape, needle threader, small Braille scale, liquid indicator, measuring cup)	200/-	NIVH
17.	Audio Ball 2no	32/-	NIVH
18.	Talking Table Clock	600/-	HMT, Saksham Trust, Karishma Enterprises, M/s Barrier Break Technologies
<u>19.</u>	Packing box	1000/-	NIVH
	Total	10,977 /-	

KIT-3: FOR SENIOR SECONDARY SCHOOL CHILDREN FOR 9^{TH} AND 10^{TH}

Sl. No.	Name of the assistive device	Indicative price in Rs.	Source
1.	Interline Braille Slate with two stylus	200/-	NIVH
2.	Small white folding cane (Five folds with packing)	150/-	NIVH
3.	Talking calculator	500/-	Sparsh, Saksham, Karishma Enterprises
4.	Tablet computer	10,000/-	Open Market
5.	Rupee checker with wallet	150/-	Sparsh Trust, Saksham Trust, Karishma Enterprises, M/s
	West 1893 of the second	ti turkiyatiya daga daga daga daga daga daga daga da	Barrier Break Technologies
6.	Packing box	1000/-	NIVH
	Total	12,000/-	

KIT- 4: FOR HIGHER SECONDARY AND ABOVE SCHOOL CHILDREN FOR CLASS $\mathbf{11}^{TH}$ AND $\mathbf{12}^{TH}$

KIT-4 (A): FOR BLIND CHILDREN

ISY Player with one speaker	9,000/-	Open Market
art cane	3,000/-	M/s Phoenix Medical Systems Private Ltd. (Proprietary item to check & certify before procurement)
al	12,000/-	
í	al ··	al 12,000/-

KIT-4 (B): FOR LOW VISION CHILDREN

Sl. No.	Name of the assistive device	Indicative price in Rs.	Remarks
1.	Mouse Cam Video Magnifier	10,000/-	Saksham Trust, Karishma Enterprises,
			M/s Barrier Break Technologies
2.	Need based optical and non optical devices as prescribed by the rehabilitation expert	2,000/-	NIVH, Open Market
7. 6	Total	12,000/-	4.1

KIT-5: FOR COLLEGE STUDENTS

COLLEGE KIT-5 (A): FOR BLIND STUDENTS

SI. No.	Name of the assistive device	Indicative price in Rs.	Source
1.	Smart phone with screen reading software	7,000/-	Open Market
2.	Pocket size blue tooth keyboard for smart phone or tablet	5,000/-	Karishma Enterprises, Saksham Trust, M/s Barrier Break Technologies
	Total	12,000/-	

COLLEGE KIT-5 (B): FOR LOW VISION STUDENTS

SI. No.	Name of the assistive device	Indicative price in Rs.	Source
1.	Smart phone with magnifier App for low vision	10,000/-	Open Market, Saksham Trust.
2.	Need based optical and non optical devices as prescribed by the rehabilitation expert	2,000/-	NIVH, Open Market
3.	Total	12,000/-	

KIT-6: ADL KIT FOR ADULTS

Sl. No.	Name of the assistive device	Indicative price in Rs.	Source
1.	Rupee checker plastic with signature guide and rupee checker flexible with wallet	150/-	NIVH, Saksham Trust
2.	Smart Cane	3000/-	M/s Phoenix Medical Systems Private Ltd. (Proprietary
	A State of the Artist of the A		item — to check & certify before procurement)
3.	Talking body thermometer	400/-	Saksham Trust, Karishma Enterprises, M/s Barrier Break
			Technologies
4.	Talking wrist watch	400/-	Do
5.	Liquid level indicator	870/-	Do
6.	Pill dispenser	50/-	Do
7.	Talking table clock with four alarms and stop watch	400/-	Do
8.	Audio labeller	3000/-	Do
9.	Talking calculator	500/-	Do
10.	Measuring kit (inch tape, needle threader, small Braille scale, liquid indicator, measuring cup)	200/-	NIVH
11.	Packing Box	1000/-	NIVH
	Total	9970/-	

LIST OF COMMON LOW VISION DEVICES

Sl. No.	Name of the assistive device	Indicative price in Rs.	Source
1.	Telescopic Glasses	3,000/-	Open Market
2.	Optical Magnifiers (Power lenses of different magnification capacity including magnifying glasses, magnifying sheets, high powered CCTV Glasses, directory readers etc.	5,000/-	Open Market
3	Mouse Cam Video Magnifier	10,000/-	Open Market
4.	Hand held Electronic Video Magnifier up to 5 inches	10,000/-	Open Market
5.	Smart phone with magnifier app for low vision	10,000/-	Open Market

LIST OF HIGH-END AND OTHER COMMON DEVICES

(A) LIST OF HIGH-END DEVICES

Sl. No.	Name of the assistive device	Indicative price in Rs.	Source
1	Brailler (for Upper Primary & above)	35,000/-	Open Market
2	Laptop with screen reading software & with Indian language & Indian English TTS	25,000/-	Open Market
3	Refreshable Braille Display (40 cells or more) with Braille inputs keys	1,25,000/-	Open Market
4	Daisy Player Advance Model	20,000/-	Open Market
5	Screen Reading Software (Blind)	20,000/-	Open Market
6	Screen Magnification Software (Low Vision)	20,000/-	Open Market

(B) LIST OF OTHER COMMON DEVICES

SI. No.	Name of the assistive device	Indicative price in Rs.	Source
1	Tablet with screen reading	10,000/-	Open Market
	Software and keyboard	10,000/-	Open Market
	(upper primary and above)		
2	Smart Mobile Phone with screen	10,000/-	Open Market
	reading software accessible digital		-
	book reader, accessible word		
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3	Daisy Player + Audio recorder with	10,000/-	Open Market
	TTS		
4	Smart Phone with Magnifier for	10,000/-	Open Market
	low vision		
5	Pocket size blue tooth keyboard for	5,000/-	Open Market
	smart phone or tablet		
6	Talking Glucometer	3,000/-	Open Market
7	Talking Blood Pressure Monitor	3,000/-	Open Market
8	Audio Labeller	3,000/-	Open Market
9	Cubarithem	6,000/-	Open Market