

Autonomous College - Affiliated to Osmania University Accredited with 'A' grade by NAAC Sainikpuri, Secunderabad - 500094



NAAC RE-ACCREDITATION - 2ND CYCLE

Criterion VII: -Institutional Values and Best Practices

7.1.7 Disabled-Friendly, Barrier free Environment

Submitted to

National Assessment and Accreditation Council

	IN:36AAPFM867		TAX INVOID			LL NO:8790	084464
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de.	Off:		c, 2 nd Floor, Mallapu				
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Dat	e: 09-06-2020				ort Nan	and the second se	
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Add	ress: Bhavan's V	vidya Bha	avan			1	
with BVC	all accessories Incl BVB Campus Sain	uding comple likouri	A Degree College, Sa (408Kgs) Traction Lift f the RCC and CIVIL wo				
GS	TIN- 36AAAT	B1693E	5ZU.		ite-	Cod	de:36
SL.	Description			SAC code	agana	Rate	Taxable
No 1.	Supply and living of	0.000	action Lift for 6 Persons	995415	a.i	1)den	value.
	collapsible Gate (for operating panel, Elo D.C. Alarm Bell along winng with GST. Specifications: LIFT:	pors in 11 Bloc Entrance and gant Ceiling in g with all civil	IX with Mild Steel Cabin, Enclosure) with S S Car Indirect lighting, Fan and works, internal electrical				
	Drive and ARD) (c)) (d) Auto Push Button of car with collapsibil Height with collapsibil Make (g) Mortar with Car Operating Panel and DC Alarm Bell et <u>CIVIL Works:-</u> (a) Balance construct	troller with D Machine Direc Operation (e) e Gates of siz operation (f) 5HP, 910RPA Elegant Celli c c	as (b) Micro processing elta/YASKAWA - VAVP bily Run above the shaft Entrance and Enclosure e 760mm wide 2000mm 13mm thick Uaba Martin A with Shark Make (i) SS ng indirect lightning fan		01.lob	Lump Sum	7.25,000-00
	(d) Fixing of Groutin Controller etc Civil w Lift to provide shall completion of instal 32Amps/60Amps Iso Earthing, Three Pha provided with input a proper ventilated ma requirement to accor bxing of Door along mortar and 7ft Heigh	ig of bracket orks to be do I and removin lation work (blators with I use Power Su and output from ichine room is mmodate the with the RC0 I for head roo plug to be pro-	or Frames to be provided Door Machina Bed and ne (e) Scaffolding in the og the scaffolding after (f) 3 phase Four pole 38 gauge wire, Double opply to controller to be in the existing source (g) to be constructed as per lift equipment including C Stab at 4ft Height for m (h) Hoist way lighting, wided in all Boots (inside be provided ets Total Aridunt of Rs.				
-		Ded	luct 1 17542% discount of	offered	1217	- The second	7,25,000-00
		andar	Net Amount of Rs		119	- Ziene	(-)8,522-00
	Add 18 % Towards GST for an amount of Rs 7,16,478/-					1,28,966-00	
	Net Amount of Rs.					8.45.444.68	
-	Deduct 1.5% towards TDS on Rs7 16.478/-					(+)10.747-05	
-			Net Amount of Rs				
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all accessories including complete RCC and CIVIL wo BVB Campus Sainikpuri	and the second se		A REPORT OF A LOD NAME OF A LOD NO.	
TIN- 36AAATB1693E5ZU.	Sta	ite-	Cor	de:36
	Telan	agana		
Description	SAC code	aty	Fate	faxable vatue:
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32Amps/60Amps Isolators with 08 gauge wire Double Earthing. Three Pruse Power Supply to controller to be provided with input and output from the existing source (g) proper ventilated machine room to be constructed as per requirement to accommodate the lift equipment including fixing of Door along with the RCC State at 4t Height for mortar and 7ft Height for head room (h) Holst way lighting. 03 pin socket power plug to be provided in all foors linside the Holst Way (i) 3ft iron Ladder to be provided etc. Total Amount of Rs.		-		7,25,000-00
	offered		13.	(+)8,522-00
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Add 18 % Towards GST for an amount	L of Rs 7,16	3.478!-	- Kar	1,23 960-00
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Deduct 1 5% towards TDS on Rs7 16,4784				
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	<section-header>PARAMENDAL SCIENCES SCIENCES</section-header>	Off: 5-1-135/1c, 2 nd Floor, Mallapur, Hydera OICE NO:001 Transp. e: 09-06-20200 Payme e: Telangana Code:36 Vehicle ne: Bharatiya Vidya Bhavan Transp. ress: Bhavan's Vivekananda Degree College, Sainikpur, I. Supply and fixing of 6 person's (408Kgs) Traction laft for 6+3 Finds -Supply and fixing of 6 person's (408Kgs) Traction laft for 6+3 Finds Events TM- 36AAAT B1693E5ZU. Sta Telann SAC code 95435 Statistic Supply and fixing of passenger Traction laft for 6 Persons Statistic Supply and fixing of passenger Traction laft for 6 Persons Statistic Supply and fixing of passenger Traction laft for 6 Persons Statistic Supply and fixing of passenger Traction laft for 6 Persons Statistic Supply and fixing of passenger Traction laft for 6 Persons Statistic Supply and fixing of passenger Traction laft for 6 Persons Statistic Supply and fixing of 0 Persons and Enclosure with S Code Statistic Supply and fixing to passenger Traction laft for 6 Persons Statistic Supply and fixing to passenger Traction laft for 6 Persons Statistic Supply and fixing to passenger Tractism and Enclosur	<section-header> Address of the series of t</section-header>	<section-header><section-header> APA SEAS OF SUBJECT SUBJEC</section-header></section-header>

Ph : 27113981 Fax : 040-27111363

Dec. 2018.



(Founded in 1938 by Kulapati Dr. K.M. Munshi with the blessings of Mahatma Gandhi)

SAINIKPURI KENDRA

Head Office Kulapati Munshi Marg, MUMBAI-400 007.

Ref. No : BVB/201/34/M.W/BVC/2018. To,

M/S HIGHBROW LIFTS Plot No:13, Near Sai Baba Temple, Sainath Puram, ECIL Post, Secunderabad – 500 062. Cell: 9502270768.

Sub:- <u>Acceptance letter cum Work Order - :</u>-"Supply and fixing of 6 person's (408Kgs) Traction Lift for G+3 Floors using with MS Powder coated cabin with all accessories Including all CIVIL works, painting, Electrical work etc in IT Block at BVC, BVB Campus Sainikpuri."

1. Reference your quotation dated 25/11/2018 for the above mentioned work in Bharatiya Vidya Bhavan, Sainikpuri.

2. Your Quotation for the above work is accepted for a contract Lump-Sum Amount of Rs.9,00,000/-(Rupees Nine Lakhs Only) which include 18% of GST. Accordingly work order is hereby placed on you to commence the work immediately on 10th Dec. 2018 and complete the work in all respects with in (60) Sixty Days i.e. 09th Feb. 2019 and hand over the same to the Principal BVC. The specification for the work are given in the appendix to this letter and the technical supervision of the work will be done by Mr. T.Srinivasu, Asst. Exec. Eng.

3. The quality of work has to be as per the specifications and to the entire satisfaction of A.E.E and Principal BVC/Vice Chairman, BVB. Any deviation proposed by the user during the execution of the work will be carried out on issue of written orders by the vice chairman BVB.

4. As "TIME" is the essence of this contract and you shall complete the work by the Target date. In case the work is not completed before 09th Feb. 2019, the liquidated damages at the rate of Rs.2000/- per each Day delay will be levied.

5. Income Tax (TDS) @ 2% will be recovered at Source. Please forward all your GST Bills in the Name of "Bharatiya Vidya Bhavan, Sainikpuri, Bhavan's Vivekananda Degree College" with our GST No:36AAATB1693E5ZU. All the payments will be made on Account pay cheque only. Mode of payments (a) An Advance amount of Rs.2.7Lakhs (i.e., 30%) will be paid along with the work order (b) After Receiving the 1st Lot of materials (that is Car Frames, Gates/Doors, Rails and brackets etc) 2nd installment of 30% that is an amount of Rs 2.7Lakhs will be paid after submission of BILL/Letter (c) After receiving the 2nd Lot of materials (Ropes, Cabin, Machine and Controller etc) 3rd installment of 30% that is an amount of Rs 2.7Lakhs will be paid after submission of BILL/Letter (d)final amount Rs 0.9 lakh will be paid after completion of work, Trail Run and satisfaction of the User Authority.

6. All Materials and Labour including scaffolding, tripods, miscellaneous materials and all accessories etc, shall be provided by you with in the cost of the contract.

7. You will be responsible for payment of compensation, if necessary, for any accidents that may take place during execution of the work carrying injury to the workers.

Accounts Copy (for Making advance payment of Rs 2.7Lakhs (i.e., 30%) to the contractor)

8. Please acknowledge receipt of this letter.

Yours faithfully

Sew sadent

Air Cmde (Retd) JLN Sastry, VSM Vice Chairman, BVB

Accepted: Signature of contractor:-

Date: Dec. 2018.

Copy to: 1.

- 2. Principal BVC Copy
- 3. Engineer Copy

Sainikpuri, SECUNDERABAD-500 094.

Date: o 5

Enclosure to the Letter No: BVB/201/34/M.W/BVC/2018 dated 0 5 Dec. 2018.

APPENDIX "A"

<u>Sub:</u>-"Supply and fixing of 6 person's (408Kgs) Traction Lift for G+3 Floors using with MS Powder coated cabin with all accessories Including all CIVIL works, painting, Electrical work etc in IT Block at BVC, BVB Campus Sainikpuri."

SI. No	Description of work	Quantity	Rate	Amount Rs.
1.	Supply and fixing of passenger Traction Lift for 6 Persons (408Kgs) for G+3 Floors in IT Block with Mild Steel Cabin, collapsible Gate (for Entrance and Enclosure) with S S Car operating panel, Elegant Ceiling indirect lighting, Fan and D.C Alarm Bell along with all civil works, internal electrical wiring with GST. Specifications:			Ŷ
	LIFT: (a) Four Stops and Four Openings (b) Micro processing System (ADCO Controller with Delta/YASKAWA – VVVF Drive and ARD) (c) Machine Directly Run above the shaft (d) Auto Push Button Operation (e) Entrance and Enclosure of car with collapsible Gates of size 760mm wide 2000mm Height with manual operation (f) 13mm thick Usha Martin Make (g) Mortar with 5HP, 910RPM with Shark Make (i) SS Car Operating Panel Elegant Ceiling indirect lightning, fan and DC Alarm Bell etc CIVIL Works:-	01Job	Lump Sum	7,62,712-00
	(a) Digging of pit with suitable depth and filled with Concrete wall with water proofing (b) Erection of Vertical columns with Footing along with Suitable reinforcement including construction 9" thick brick wall, plastering, curing and painting, (c) Door Frames to be provided (d) Fixing of Grouting of bracket Door Machine Bed and Controller etc Civil works to be done (e) Scaffolding in the Lift to provide shaft and removing the scaffolding after completion of installation work (f) 3 phase Four pole, 32Amps/60Amps Isolators with 08 gauge wire, Double Earthing,			
	Three Phase Power Supply to controller to be provided with input and output from the existing source. (g) proper ventilated machine room to be constructed as per requirement to accommodate the lift equipment including fixing of Door along with the RCC Slab at 4ft Height for mortar and 7ft Height for head room (h) Hoist way lighting, 03 pin socket power plug to be provided in all floors (Inside the Hoist Way (i) 3ft Iron Ladder to be provided etc.		а 1.	
	Total Amount of Rs.			7,62,712-00
	Add 18 % Towards GST			1,37,288-00
	Net Amount of Rs.			9,00,000-00

Der sachy

Air Cmde.(Retd) JLN Sastry, VSM Vice Chairman, BVB

Signature of contractor:-Date: Dec. 2018.



M.R. CONSTRUCTIONS Engineers & Contractors

H.No. 11-3-296/8/4, Plot No. 691, Srinivas Nagar, Secunderabad - 061.

The Principal, Bhavan's Vivekananda Degree College, Bharatiya Vidya Bhavan,

Sainikpuri, Secunderabad - 500 094.

BILL

<u>Sub:</u>-"Supply and fixing of 6 person's (408Kgs) Traction Lift for G+3 Floors using with MS Powder coated cabin with all accessories Including balance CIVIL works, painting, Electrical work etc in IT Block at BVC, 3VB Campus Sainikpuri."

				Rs.
	Supply and fixing of passenger Traction Lift for 6 Persons (408Kgs) for G+3 Floors in IT Block with Mild Steel Cabin, collapsible Gate (for Entrance and Enclosure) with S S Car operating panel, Elegant Ceiling indirect lighting, Fan and D.C Alarm Bell along with all civil works, internal electrical wiring with GST. Specifications: <u>LIFT:</u> (a) Four Stops and Four Openings (b) Micro processing System (ADCO Controller with Delta/YASKAWA – VVVF Drive and ARD) (c) Machine Directly Run above the shaft (d) Auto Push Button Operation (e) Entrance and Enclosure of car with collapsible Gates of size 760mm wide 2000mm Height with manual operation (f) 13mm thick Usha Martin Make (g) Mortar with 5HP, 910RPM with Shark Make (i) SS Car Operating Panel Elegant Ceiling indirect lightning, fan and DC Alarm Bell etc <u>CIVIL Works:-</u> (a) Balance construction of 9" thick brick wall, plastering, curing etc (b)ACE painting, (c) Door Frames to be provided (d) Fixing of Grouting of bracket Door Machine Bed and Controller etc Civil works to be done (e) Scaffolding in the Lift to provide shaft and removing the scaffolding after completion of installation work (f) 3 phase Four pole, 32Amps/60Amps Isolators with 08 gauge wire, Double Earthing, Three Phase Power Supply to controller to be provided with input and output from the existing source. (g) proper ventilated machine room to be constructed as per requirement to accommodate the lift equipment including fixing of Door along with the RCC Slab at 4ft Height for mortar and 7ft Height for head room (h) Hoist way lighting, 03 pin socket power plug to be provided in all floors (Inside the Hoist Way (i) 3ft Iron Ladder to be provided etc. Total Amount of Rs.	01Job	Lump Sum	4,92,712-00 8VC 68644 68644 5027-8-1 307 eligib
+	Add 18 % Towards GST for an amount of Rs7,62,	712/-		4,92,712-00
+	Net Amount of Rs.	1 12/-	NoSa	6,30,000-00
+		169	190 1911	
+	Deduct 2% towards TDS)El	(-)12,600-00
	Net Amount of Rs We also undertake Electrical, Plumbing, Carpentry, Paintings	10.10	PAR	6,17,400-00

SAAPFM8673C1ZV

TAX INVOICE

CELL NO:8790084464

M.R CONSTRUCTIONS

Off: 5-1-135/1c, 2nd Floor, Mallapur, Hyderabad – 500 076.

NVOICE NO:009		Transport Name:
ate: 27-08-2019		Payment mode:
tate: Telangana	Code:36	Vehicle no:

lame: Bharatiya Vidya Bhavan

ddress: Bhavan's Vivekananda Degree College, Sainikpuri, Medchal - Malkajgiri ist.-94

<u>ub:</u>-"Supply and fixing of 6 person's (408Kgs) Traction Lift for G+3 Floors using with MS Powder coated cabin ith all accessories Including balance CIVIL works, painting, Electrical work etc in IT Block at BVC, BVB ampus Sainikpuri."

STIN- 36AAATB1693E5ZU.		State-		Cod	e:36
		Telan	agana		
 D	Description	SAC code 995415	qty	Rate	Taxable value:
	Supply and fixing of passenger Traction Lift for 6 Persons (408Kgs) for G+3 Floors in IT Block with Mild Steel Cabin, collapsible Gate (for Entrance and Enclosure) with S S Car operating panel, Elegant Ceiling indirect lighting, Fan and D.C Alarm Bell along with all civil works, internal electrical wiring with GST.				
	Specifications: <u>LIFT:</u> (a) Four Stops and Four Openings (b) Micro processing System (ADCO Controller with Delta/YASKAWA – VVVF Drive and ARD) (c) Machine Directly Run above the shaft (d) Auto Push Button Operation (e) Entrance and Enclosure of car with collapsible Gates of size 760mm wide 2000mm Height with manual operation (f) 13mm thick Usha Martin Make (g) Mortar with 5HP, 910RPM with Shark Make (i) SS Car Operating Panel Elegant Ceiling indirect lightning, fan and DC Alarm Bell etc <u>CIVIL Works:-</u> (a) Balance construction of 9" thick brick wall, plastering, curing etc (b)ACE painting, (c) Door Frames to be provided (d) Fixing of Grouting of bracket Door Machine Bed and Controller etc Civil works to be done (e) Scaffolding in the Lift to provide shaft and removing the scaffolding after completion of installation work (f) 3 phase Four pole, 32Amps/60Amps Isolators with 08 gauge wire, Double Earthing, Three Phase Power Supply to controller to be provided with input and output from the existing source. (g) proper ventilated machine room to be constructed as per requirement to accommodate the lift equipment including fixing of Door along with the RCC Slab at 4ft Height for mortar and 7ft Height for head room (h) Hoist way lighting, 03 pin socket power plug to be provided in all floors (Inside the Hoist Way (i) 3ft Iron Ladder to be provided etc.		01Job	Lump Sum	4,92,712-00
	Total Amount of Rs.		1		4,92,712-00
V	been Campilded 18 % Towards GST for an amou	nt of Rs7,6	2,712/-	1	1,37,288-00
1	factory checked Net Amount of Rs.		100	PEIL	6,30,000-00
	Deduct 2% towards T	DS	CALL SEG	840.5	(-)12,600-00
_	I Same Total 30/08/19 Net Amount of Rs		Cole +	- SI	6,17,400-00

Ph: 27113981 Fax: 040-27111363



(Founded in 1938 by Kulapati Dr. K.M. Munshi with the blessings of Mahatma Gandhi)

SAINIKPURI KENDRA

Head Office Kulapati Munshi Marg, MUMBAI-400 007.

Sainikpuri, SECUNDERABAD-500 094.

Date 30 Nov. 2018.

BVB/201/32/M.W/BVC/2018. Ref. No : M/S SREE Constructions. Mr. K.N.M. Srinivas Rao. H.No:34-87/3, Vivekananda puram, Sainikpuri, Secunderaba 500 094. Cell: 9849171383.

Sub:- Acceptance letter cum Work Order -:- "Additions/Alterations to the existing Toilet at G.F Landing slab of science Block for Divyangan Boys Toilets etc at BVC, BVB Campus Sainikpuri."

Reference your quotation dated 29/11/2018 for the above mentioned work in Bharatiya Vidya 1. Bhavan, Sainikpuri.

Your Quotation for the above work is accepted for a contract Sum Amount of Rs.18,000/-(Rupees 2. Eighteen Thousand Only). Accordingly work order is hereby placed on you to commence the work immediately on 30th Nov. 2018 and complete the work in all respects with in (10) Ten Days i.e. 10the Dec. 2018 and hand over the same to the Principal BVC. The specification for the work are given in the appendix to this letter and the technical supervision of the work will be done by Mr. T.Srinivasu, Asst. Exec. Eng.

The quality of work has to be as per the specifications and to the entire satisfaction of A.E.E and 3. Principal BVC/Vice Chairman, BVB. Any deviation proposed by the user during the execution of the work will be carried out on issue of written orders by the vice chairman BVB.

As "TIME" is the essence of this contract and you shall complete the work by the Target date. In case 4. the work is not completed before 10th Dec. 2018, the liquidated damages at the rate of Rs.2000/- per each Day delay will be levied.

Income Tax @ 2% will be recovered at Source. Please forward all your GST Bills in the Name of 5. "Bharatiya Vidya Bhavan, Sainikpuri, Bhavan's Vivekananda Degree College" with our GST No:36AAATB1693E5ZU.

All Materials and Labour including scaffolding, tripods, miscellaneous materials and all accessories 6. etc, shall be provided by you with in the cost of the contract.

You will be responsible for payment of compensation, if necessary, for any accidents that may take 7. place during execution of the work carrying injury to the workers.

8. Please acknowledge receipt of this letter.

K. Sigh

Accepted: Signature of contractor:-Date: 30 Nov. 2018. Accounts Copy Copy to: 1.

2.

Principal BVC Copy

Engineer Copy 3.

Yours faithfully

gersach

Air Cmde.(Retd) JLN Sastry, VSM Vice Chairman, BVB

Enclosure to the Letter No: BVB/201/32/M.W/BVC/2018 dated 30 Nov. 2018.

APPENDIX "A"

<u>Sub:-</u>"Additions/Alterations to the existing Toilet at G.F Landing slab of science Block for Divyangan Boys Toilets etc at BVC, BVB Campus Sainikpuri."

<u>"Additions/Alterations to the existing of Toilet of size 6'0"x6'0" below stair case landing of</u> Science Block for Divyangan Boys Toilet at BVC, BVB Campus Sainikpuri.

SI. No	Description of work	Quantity	Rate	Amount
1.	Labour only for removing of existing MS door and handing over to the user authority etc including making the edges smooth and level	01Job	L.S	1,000-00
2	with extra cement motar etc complete all as directed D-2'6"x6'6" Size.			
2.	Material and Labour for 35mm thick water proof flush door shutter along with medium teak wooden frame of size 4"x3" including aluminum	01Nos	7500/- per	7,500-00
	mongeries etc complete all as directed. D-3'6"x7'0" Size	tin an ∳atting	Each	
3.	Supply and fixing of 1 ½" dia SS pipe rail for supporting purpose etc including fixing and grouting in position etc complete all as directed.	15RFT	150/- per RFT	2,250-00
4.	Material and Labour for Internal painting using with ACE Paint in two coats along with making the formation surface using with Asian make paint etc complete all as directed	01Job	L.S	1,500-00
5.	Supply and fixing of S S wall Hanger of 12" length and S S Soap Dish etc complete all as directed	01Job	L.S	900-00
6.	Material and Labour for Cement Concrete Ramp at Three Place using with RCC 1:2:4 along with fair finish plastering in cm1:4, curing	01Job	L.S	2,500-00
	etc complete all as directed(Two Nos in corridor and one Nos in Existing Grill door)		x s ²	3
	Total Amount of R			15,650-00
	Add 18 % Towards C	and the second		2,817-00
	Net Amount of Rs	i.		18,467-00 s.18,000/-

K. Sish

Signature of contractor:-Date: 3º Nov. 2018.

Sensachy_

Air Cmde.(Retd) JLN Sastry, VSM Vice Chairman, BVB

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	GSTIN/UIN: 36AGDPT5284 E-Mail : haricreations2009@			Suppli	er's Ref.		Other	Refe	erence(s)	
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	<i>Remarks:</i> 5X4-1, 3X3-1, 3X2-1		C	ompan	v'a Papl	Details				
	Company's VAT TIN : 363934 Company's CST No. : 363934 Company's PAN : AGDPT	10578	E	ank Na /c No.	me	: Indian : 660614	7625	bads	& IDIB000R074	
	Declaration We declare that this invoice sho of the goods described and that true and correct.	ws the actual p all particulars a	orice are	repared		Verified		for	Hari Creations	
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GPAL, B.V.C PEIN SAINIKOURI

NVDA Screen Reader

Screen readers make it very easy for a blind or visually-impaired person to use a device by simply listening to everything happening on the screen. For this purpose, <u>NVDA</u> (Non-Visual Desktop Access) is an amazing screen reader that is both robust and completely free to use. Downloading and installing NVDA on your device may require assistance as a new user (the installer also talks), but once everything is set up it will automatically start in the PC to guide you. It will read everything your mouse hovers over and whatever you type, allowing you to easily use your PC.



It works fine with many of the popular applications, including browsers. You can use it to open and browse the Web, and it will read everything to you. Its options allow control over voice type, pitch, speed and volume to configure it according to your needs. I tried using the tool with my eyes closed and quite easily navigated this website and opened and read a few articles. In my experience it will consume extra time if you are only using your mouse to navigate the Web. You should also try using keyboard shortcuts and arrow keys to quickly complete most tasks without having to find them with the cursor.

Yoice english Variant Max Bate: • Bate: • Rate boost • Pitch: • Inflection: • Volume: • Variantic language switching (when supported) Automatic language switching (when supported) Punctuation/symbol level Some Trust voice's language when processing characters and symbol Capital pitch change percentage 30 Say cap before capitals	V.	oice Settings
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📰 Say <u>c</u> ap before capitals		30
	L	Say <u>c</u> ap before capitals
Beep for capitals		
Use spelling functionality if supported		

NVDA can also be configured to work with a braille display (if you own one). Furthermore, it comes with forty-three languages with an automatic language switch to make it easier to navigate in your own language. You can add more features using <u>NVDA add-ons</u>, like controling the mouse with the keyboard, saving locations or reading emoticons. Best of all it also has a portable version allowing you to keep it in your USB drive and use it on any PC right from the USB.

Do also check out the various screen readers for each OS.

INFORMATION FLOW DIAGRAM



HOW IT WORKS ?

NVDA fetches information about GUI widgets, textual data, events, user interactions and OS events with the help of:

Accessibility APIs: These are special purpose APIs that provide information about the graphical widgets such as name, type/role, description, value, states, etc. Accessibility APIs also provide events to allow assistive technologies to monitor object's properties changes. Accessibility APIs include Microsoft Active Accessibility (MSAA), IAccessible2, Java Access Bridge and UI Automation.

Native APIs: If application does not expose sufficient information via accessibility APIs but expose information via native APIs (not specific to accessibility) then these APIs can be used. For ex: Win32

Application Specific APIs: A lot of applications also provide APIs of their own to expose informationabout the components and events of the application. For example COM (Component Object Model)APIforMicrosoftExcel.

OS Functions: Windows OS provides many functions to obtain system information and perform tasks. Information that can be obtained includes the class name of a window, the current foreground window, window location, process or thread ID.

NVDA FEATURES

- Open Source s/w- NVDA is open source, that is, it is available for free to users. Also users can create modules of their own and use them.
- Braille- provides output to user in Braille format
- Speech- provides output to user in audio format
- Indian Languages- provides support for 12 Indian languages
- Portable- NVDA can be installed directly on to your computer, but it has the ability to run entirely from a USB stick or other portable media.
- Speech Engines is bundled with eSpeak, a free multi-lingual speech synthesizer. Additionally, it can use both SAPI 4 and SAPI 5 speech engines.

SYSTEM REQUIREMENTS

NVDA runs on both 32-bit and 64-bit editions of Microsoft Windows XP or later. NVDA has no additional hardware requirements beyond those of the operating system and requires around 50 MB of disk space.

NVDA is bundled with eSpeak, a free multi-lingual speech synthesizer. Additionally, NVDA can use both SAPI 4 and SAPI 5 speech engines.

NVDA IMAGE DESCRIPTION ADDON

Overview

When browsing across the internet, many times we come across images without any alternate text. This causes NVDA to simply mention it as a graphic without any description. This add-on has been written to provide description for such graphics. The add-on uses Microsoft's Computer Vision cognitive API to get a description of the image provided to it. The add-on works for the Internet Explorer, Mozilla Firefox and Chrome (Canary version) browser as well Installation

System Requirements

1.	Windows	operating	system
2.	NVDA	screen	reader
3. If	using with Chrome browser, use	e Chrome Canary	

Instructions

Step 1: Generate a subscription key for using Microsoft Computer Visioncognitive API from the linkPlease note that the key has to be created fortheComputerVisionAPI.

Step 2: Download and Install the NVDA Addon named Describelt. ForAddoninstallationinstructionsvisit link

Step 3: From the add-on menu (the add-on menu is named asAssistech_IIT_Delhi), select the options add API key and provide yoursubscriptionkeyforthecognitionAPI.

Step 4: If you are behind a proxy, from the add on menu, select the options add proxy details and provide your proxy IP and port. Step 3 and step 4 only need to be performed the first time or whenever either of your proxy details or subscription key changes.

Step 5: While navigating a webpage, whenever a graphic is encountered and is in focus, use keyboard shortcut NVDA+g. The image description and the confidence level returned b the API are provided as audio output. Use NVDA+gg to get the results (including the dominant colors present in the image) in a browseable message box. (Fetching results takes a few seconds.). If no result is obtained from API, appropriate speech message is returned.

Scribe















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