

**अखिल भारतीय आयुर्विज्ञानसंस्थान, मंगलगिरी**  
**ALL INDIA INSTITUTE OF MEDICAL SCIENCES**  
**Mangalagiri, Guntur (A.P.) – 522503**  
**Website: [www.aiismangalagiri.edu.in](http://www.aiismangalagiri.edu.in)**

Ref. No.: AIIMSMG/STORE/Tender/2020-21/ENT/DHR-ICMR/VNG CDP/ Dt: 16.07.2020

**Subject:** Proposal for the procurement of “**Video Nystagmographywith computerized dynamic Posturography** ” for the ENT, Hospital Complex, AIIMS Mangalagiri, Guntur (A.P.) – 522503

The request received from ENT Department, AIIMS Mangalagiri for the purchase of captioned Item from **M/s Neuro Equilibrium Diagnostics Systems Pvt Ltd.**, on Proprietary basis.

The Notice is being uploaded for general information of Aspirant Manufacturer/Dealer/Distributor to submit their objections/proposal, if any, on proprietorship of these items.

In case, the product of any Manufacturer/Authorized distributor/dealer conforms to the enclosed specifications, they may submit their proposal for the supply same item along with the following: -

1. Product brochure
2. Point-by-point compliance of the, Enclosed specifications, along with all Relevant documentary evidence.

**The objection/ proposal** should be sent in sealed cover to, The Sr. Store Officer AIIMS Temporary Campus, First Floor, Government Siddhartha Medical College, NH 16 service road, Gunadala, Vijayawada 520008, so as to reach on or before 07.08.2020 upto 16:00 hrs., failing which it will be presumed that no any other vendor is interested to offer comments/protest and case will be decided accordingly on its merit.

The reference number of this tender and dated :16.7.2020, should be super scribed on sealed envelope.

**Yours faithfully**

**Sr. Store Officer  
(for Director, AIIMS, Mangalalgi)**

- Encl: 1. Authorization Certificate  
2.PAC Certificate  
3.Schedule of requirement

CP (100)



NeuroEquilibrium Diagnostics Systems Pvt Ltd.

140 SriGopal nagar , Gopalpur Bypass Road , Jaipur 302015

**Integrated Vestibular Diagnostic and Rehabilitation lab for vertigo and balance disorders**

<b>1.Computerized Dynamic Posturography</b>	
Product Description	Computerised Dynamic Posturography Platform and Software for dynamic Posturography Testing
Purpose	Dynamic Balance Platform(computerized) to evaluate postural control and for measuring rehabilitation outcome in Vertigo Patients
Components	Dynamic Posturography platform, FULL HD LED TV, safety harness
SALIENT FEATURES	
able to perform Sensory Orientation Test (SOT)	
able to perform Motor Control Test	
able to perform Adaption Test	
Should have minimum 3 rehabilitation modules	
Balance Platform with 4 load cells , forward –backward movement & up-down tilt	
With a 42 inch LED HD TV	
Automatic storage of data on the cloud	

<b>2.VideoNystagmography (VNG)</b>	
Product Description	Video Nystagmography (VNG) Equipment For Vertigo Clinics
Purpose	To evaluate the oculomotor system , positional and caloric test in Vertigo Patients

CP - (99)

# Neuro Equilibrium

NeuroEquilibrium Diagnostics Systems Pvt Ltd.

140 SriGopal nagar , Gopalpur Bypass Road , Jaipur 302015

Components	Binocular VNG Goggle, Projector, Desktop and Software
SALIENT FEATURES	
able to perform Spontaneous Nystagmus with optic fixation	
able to perform Spontaneous Nystagmus without optic fixation	
able to perform Gaze evoked Nystagmus	
able to perform Saccades - fixed	
able to perform Saccades - random	
able to perform Smooth tracking with varying frequencies	
able to perform Optokinetic test	
able to perform Head shaking test	
able to perform Caloric test	
able to perform Vibration test	
able to perform Positional Testing including Dix-Hallpike, McClure's, Supine, Deep Head Hanging	
able to perform Valsalva and hyperventilation induced nystagmus	
able to perform Skew Deviation	
Real time recording of all the parameters	
High frame rate camera ( 60 fps) with hot mirror for precision and obstruction less eye tracking	
able to integrate with any laptop/Computer	

CP-98



NeuroEquilibrium Diagnostics Systems Pvt Ltd.  
140 SriGopal nagar , Gopalpur Bypass Road , Jaipur 302015

Detailed and customized reports automatically created in easy format	
Algorithm automatically calculates the slow phase velocity and counts the no. of beats per second	
Automatic calculation of Directional Preponderance, canal Paresis and fixation index	
Pan Control and eye centering through the software instead of knobs on goggle to avoid movement of goggle during testing	
Projector image instead of traditional light bar or LCD Screen	
Automatic Calculation of Gain at two frequencies in smooth pursuit test	
Automatically generate graphs of all parameters with normative data for easy visual comparison	
Automatically compensates the effect of spontaneous nystagmus in caloric testing	
Hot mirror for unobstructed viewing	
Built in fixation light to simplify testing	
Easy fit magnetic cover allowing for both occluded and unoccluded measurements	
Runs with advanced eye tracking algorithm that eliminates errors caused by blinking	
Equipped with soft and comfortable padded headband	
Binocular Testing	
Horizontal Eye Tracking	20°
Vertical Eye Tracking	15°
Sampling rate	60 Hz
Image Sensor Type	CCD / CMOS
<b>SOFTWARE FEATURES</b>	

CP- 97



## NeuroEquilibrium Diagnostics Systems Pvt Ltd.

140 SriGopal nagar , Gopalpur Bypass Road , Jaipur 302015

Automatic storage of test data on the cloud	
Integrates with water caloric irrigator	
Desktop	
Type	Desktop
Processor	Intel core i5
Minimum RAM	4 GB
Operating System	Windows 10 or above
Minimum Disk Space	256 GB
Minimum screen resolution	1024 (horiz) x 768 (vert) at 96 dpi
Display color	32-bit color

### 3. Water Caloric Irrigator For Video Nystagmography Machine

Purpose	To be used in combination with a Video Nystagmography (VNG) Machine For Caloric Testing in Vertigo Patients
Components	Water caloric Irrigator , External water tank
Delivery hose to easily reach the patient's ear	3 meter long
PRODUCT TECHNICAL FEATURES	
Temperature Range	25° to 50°C
Cool Stimulus	30°C
Warm Stimulus	44°C
Temperature Readout through software	Digital
Temperature Accuracy	± 1°C

CP-96



NeuroEquilibrium Diagnostics Systems Pvt Ltd.  
140 SriGopal nagar , Gopalpur Bypass Road , Jaipur 302015

Time Range	30 seconds
Water Flow rate	400cc to 500 cc per minute
Flow Rate Accuracy	± 50 cc per minute
All parameters visible in the VNG software	
<b>SAFETY FEATURES</b>	
Auto high temperature cut-off	
Temperature sensor failure shut down	
<b>ELECTRICAL SPECIFICATIONS</b>	
Voltage Requirements	220 – 240 VAC @ 50 Hz

<b>5. Dynamic Visual Acuity</b>	
Product Description	Head Mounted Device with 9 Axis Inertial Measurement Unit(IMU) and Software For Dynamic Visual Acuity(DVA) Test
Purpose	For Detection of Peripheral Vestibulopathy and Vestibulotoxicity.It assesses the ability of the subject to maintain the image on the fovea of the retina in Vertigo Patients
Components	Head device , software
<b>SALIENT FEATURES</b>	
able to detect angle of head flexing	



CP - (95)



### NeuroEquilibrium Diagnostics Systems Pvt Ltd.

140 SriGopal nagar . Gopalpur Bypass Road . Jaipur 302015

able to detect the velocity of head rotation	
able to perform static visual acuity Test	
able to perform dynamic visual acuity Test	
Automatically calculates dynamic visual acuity based on patient response	
Computerized with rate sensor for head movement to provide precise recordings	
Sound Assistance for easy head movement	

6. Subjective Visual Vertical	
Product Description	Subjective Visual Vertical (SVV) Equipment For Vertigo Clinics
Purpose	To evaluate the otolith system which is responsible for perception of verticality in Vertigo Patients
Components	Specialised Goggle with Tubular vision & Gyroscope, Bluetooth remote and Software
SALIENT FEATURES	
able to perform Static SVV test, Head Vertical	
able to perform Static SVV test, Head Inclined at 30 degrees	
able to perform Dynamic Moving background test , head vertical	
Goggle should ensure tubular vision to cut off the cues from the surrounding	
Gyroscope to measure head tilt of 30 Degrees	
Real Time data recording	
SVV goggle separate goggle with Tubular vision & Gyroscope , not combined with VNG	

CP-94



NeuroEquilibrium Diagnostics Systems Pvt Ltd.  
140 SriGopal nagar , Gopalpur Bypass Road , Jaipur 302015

<b><u>Integrated Vestibular Diagnostic and Rehabilitation lab for vertigo and balance disorders</u></b>	<b>With GST (INR)</b>
Dynamic Visual acuity	<b>2500000</b>
Videonystagmography	
Water caloric	
Subjective Visual Vertical	
CDP	



CP - (93)



✓ Diagnostic Systems Pvt. Ltd.

140, Shri Gopal Nagar, Gopalpura Bypass Road, Jaipur 302015. E-mail : [info@neuroequilibrium.in](mailto:info@neuroequilibrium.in) | [www.neuroequilibrium.in](http://www.neuroequilibrium.in)

- All equipment from same supplier & fully integrated
- All data from each equipment should be automatically stored in the cloud for easy retrieval
- All equipment should be ISO 13485 certified
- Warranty 2 years
- No Major consumables required

For Neuroequilibrium Diagnostic Systems Pvt Ltd

For Neuroequilibrium Diagnostic Systems Private Limited

A handwritten signature in black ink, appearing to read "Rajneesh Bhandari".

Director

Rajneesh Bhandari  
Managing Director  
6<sup>th</sup> May 2020



CP-91



**INTELLECTUAL  
PROPERTY INDIA**  
PATENTS | DESIGNS | TRADE MARKS  
GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

भारत सरकार  
GOVERNMENT OF INDIA  
पेटेंट कार्यालय  
THE PATENT OFFICE  
पेटेंट प्रमाणपत्र  
PATENT CERTIFICATE  
(Rule 74 Of The Patents Rules)

क्रमांक : 011112702  
SL No :



पेटेंट सं. / Patent No. : 311870  
आवेदन सं. / Application No. : 3877/DEL/2015  
फाइल करने की तारीख / Date of Filing : 27/11/2015  
पेटेंटी / Patentee : Neuroequilibrium Diagnostic System Pvt. Ltd.

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित APPARATUS AND METHOD FOR IDENTIFYING GAZE STABILITY OF PATIENT नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 27th day of November 2015 से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled APPARATUS AND METHOD FOR IDENTIFYING GAZE STABILITY OF PATIENT as disclosed in the above mentioned application for the term of 20 years from the 27th day of November 2015 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 29/04/2019  
Date of Grant :

*OKSuptis*  
पेटेंट नियंत्रक  
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, 27th day of November 2017 को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।  
Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 27th day of November 2017 and on the same day in every year thereafter.

CP-90



**INTELLECTUAL  
PROPERTY INDIA**  
PATENTS | DESIGNS | TRADE MARKS  
GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

भारत सरकार  
GOVERNMENT OF INDIA  
पेटेंट कार्यालय  
THE PATENT OFFICE  
पेटेंट प्रमाणपत्र  
PATENT CERTIFICATE  
(Rule 74 Of The Patents Rules)

क्रमांक : 011109198  
SL No :



पेटेंट सं. / Patent No. : 302747  
आवेदन सं. / Application No. : 1502/DEL/2015  
फाइल करने की तारीख / Date of Filing : 26/05/2015  
पेटेंटी / Patentee : Neuroequilibrium Diagnostic System Pvt Ltd.

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित APPARATUS FOR DIAGNOSING VERTIGO AND BALANCE RELATED AILMENT नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 26th day of May 2015 से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled APPARATUS FOR DIAGNOSING VERTIGO AND BALANCE RELATED AILMENT as disclosed in the above mentioned application for the term of 20 years from the 26th day of May 2015 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 31/10/2018  
Date of Grant :

*OK Singh*

पेटेंट नियंत्रक  
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, 26th day of May 2017 को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।  
Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 26th day of May 2017 and on the same day in every year thereafter.

CP-(89)



**INTELLECTUAL  
PROPERTY INDIA**  
PATENTS | DESIGNS | TRADE MARKS  
GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

भारत सरकार  
GOVERNMENT OF INDIA

पेटेंट कार्यालय  
THE PATENT OFFICE

पेटेंट प्रमाणपत्र  
PATENT CERTIFICATE  
(Rule 74 Of The Patents Rules)

क्रमांक : 011110714  
SL No :



पेटेंट सं. / Patent No. : 306778  
आवेदन सं. / Application No. : 1501/DEL/2015  
फाइल करने की तारीख / Date of Filing : 26/05/2015  
पेटेंटी / Patentee : Neuroequilibrium Diagnostic System Pvt Ltd.

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित APPARATUS AND METHOD FOR EVALUATING OTOLITH DYSFUNCTION नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 26th day of May 2015 से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled APPARATUS AND METHOD FOR EVALUATING OTOLITH DYSFUNCTION as disclosed in the above mentioned application for the term of 20 years from the 26th day of May 2015 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 04/02/2019  
Date of Grant :

*OKSupta*  
पेटेंट नियंत्रक  
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, 26th day of May 2017 को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।  
Note - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 26th day of May 2017 and on the same day in every year thereafter.



CP - (88)



Diagnostic Systems Pvt. Ltd.

140, Shri Gopal Nagar, Gopalpura Bypass Road, Jaipur 302016. E-mail: info@neuroequilibrium.in | www.neuroequilibrium.in

Proprietary Equipment Certificate

To whom so ever it may concern

This letter is to certify that we are the proprietary manufacturer of "Integrated Vestibular Diagnostic and Rehabilitation lab" for vertigo and balance disorders. The vestibular lab includes Computerised Dynamic Posturography platform, subjective visual vertical, Dynamic Visual acuity, Water caloric Irrigator, Videonystagmography system on a single integrated platform used for diagnosis and rehabilitation. We have two patents on the diagnostic equipment. The reports from all the diagnostic & rehabilitation equipment's are integrated on a cloud based vertigo assessment software for concise clinical decision support system.

There is no other manufacturer of the "Integrated Vestibular Diagnostic and Rehabilitation lab" for vertigo and balance disorders.

For Neuroequilibrium Diagnostic Systems Pvt Ltd

For Neuroequilibrium Diagnostic Systems Pvt Ltd

A handwritten signature in black ink, appearing to read "Rajneesh Bhandari".

Rajneesh Bhandari  
Managing Director  
6<sup>th</sup> May 2020

Director



**Schedule of requirement and brief specifications**

Sr.No	Description	Req qty.
1	<b>VNG with computerized dynamicposturography</b> <b><u>Components of the item</u></b> <ul style="list-style-type: none"> <li>• VNG</li> <li>• Water caloric irrigator</li> <li>• Dynamic visual acuity</li> <li>• Subjective Visual vertical</li> <li>• Computerized dynamic posturography</li> </ul>	01 No

**Specifications as below: -**

<b>1.Computerized Dynamic Posturography</b>	
Product Description	Computerized Dynamic Posturography Platform and Software for dynamic Posturography Testing
Purpose	Dynamic Balance Platform(computerized) to evaluate postural control and for measuring rehabilitation outcome in Vertigo Patients
Components	Dynamic Posturography platform, LED TV, safety harness
SALIENT FEATURES	
Should be able to perform Sensory Orientation Test (SOT)	
Should be able to perform Motor Control Test	
Should be able to perform Adaption Test	
Should have minimum 3 rehabilitation modules	
Balance Platform with 4 load cells, forward –backward movement & up-down tilt	
With a 42-inch LED HD TV	
Automatic storage of data on the cloud	



## 2.VideoNystagmography (VNG)

Product Description	Video Nystagmography (VNG) Equipment for Vertigo Clinics
Purpose	To evaluate the oculomotor system, positional and caloric test in Vertigo Patients
Components	Binocular VNG Goggle, Projector, Desktop and Software
<b>SALIENT FEATURES</b>	
Should be able to perform Spontaneous Nystagmus with optic fixation	
Should be able to perform Spontaneous Nystagmus without optic fixation	
Should be able to perform Gaze evoked Nystagmus	
Should be able to perform Saccades - fixed	
Should be able to perform Saccades - random	
Should be able to perform Smooth tracking with varying frequencies	
Should be able to perform Optokinetic test	
Should be able to perform Head shaking test	
Should be able to perform Caloric test	
Should be able to perform Positional Testing including Dix-Hallpike, McClure's, Supine, Deep Head Hanging	
Should be able to perform Valsalva and hyperventilation induced nystagmus	
Should be able to perform Skew Deviation	
Real time recording of all the parameters	
High frame rate camera (60 fps) with hot mirror for precision and obstruction less eye tracking	
Detailed and customized reports automatically created in easy format	
Algorithm automatically calculates the slow phase velocity and counts the no. of beats per second	
Automatic calculation of canal Paresis and fixation index in caloric test	
Pan Control and eye centering through the software instead of knobs on goggle to avoid movement of goggle during testing	

Projector image instead of traditional light bar or LCD Screen	
Automatic Calculation of Gain at two frequencies in smooth pursuit test	
Automatically generate graphs of all parameters with normative data for easy visual comparison	
Automatically compensates the effect of spontaneous nystagmus in caloric testing	
Hot mirror for unobstructed viewing	
Built in fixation light to simplify testing	
Easy fit magnetic cover allowing for both occluded and unoccluded measurements	
Equipped with soft and comfortable padded headband	
Binocular Testing	
Horizontal Eye Tracking	20°
Vertical Eye Tracking	15°
Sampling rate	60 Hz
Image Sensor Type	CCD / CMOS
<b>SOFTWARE FEATURES</b>	
Automatic storage of test data on the cloud	
Integrates with water caloric irrigator	
<b>Desktop</b>	
Type	Desktop
Processor	Intel core i5
Minimum RAM Required	4 GB
Operating System	Windows 10 or above
Minimum Disk Space Required	256 GB
Minimum screen resolution	1024 (horiz) x 768 (vert) at 96 dpi
Display color	32-bit color

### 3. Water Caloric Irrigator for Video Nystagmography Machine

Purpose	To be used in combination with a Video Nystagmography (VNG) Machine for Caloric
---------	---

	Testing in Vertigo Patients
Components	Water caloric Irrigator, External water tank
Delivery hose to easily reach the patient's ear	3 meter long
<b>PRODUCT TECHNICAL FEATURES</b>	
Cool Stimulus	30°C
Warm Stimulus	44°C
Temperature Readout through software	Digital
Temperature Accuracy	± 1°C

Time Range	30 seconds
Water Flow rate	400cc to 500 cc per minute
Flow Rate Accuracy	± 50 cc per minute
All parameters must be visible in the VNG software	
<b>SAFETY FEATURES</b>	
Auto high temperature cut-off	
Temperature sensor failure shut down	
<b>ELECTRICAL SPECIFICATIONS</b>	
Voltage Requirements	220 – 240 VAC @ 50 Hz

<b>4. Dynamic Visual Acuity</b>	
Product Description	Head Mounted Device with 9 Axis Inertial Measurement Unit (IMU) and Software for Dynamic Visual Acuity (DVA) Test
Purpose	For Detection of Peripheral Vestibulopathy and Vestibulotoxicity. It assesses the ability of the subject to maintain the image on the fovea of the retina in Vertigo Patients
Components	Head device, software
<b>SALIENT FEATURES</b>	

Should be able to detect angle of head flexing	
Should be able to detect the velocity of head rotation	
Should be able to perform static visual acuity Test	
Should be able to perform dynamic visual acuity Test	
Automatically calculates dynamic visual acuity based on patient response	
Computerized with rate sensor for head movement to provide precise recordings	

<b>5. Subjective Visual Vertical</b>	
Product Description	Subjective Visual Vertical (SVV) Equipment for Vertigo Clinics
Purpose	To evaluate the otolith system which is responsible for perception of verticality in Vertigo Patients
Components	Specialized Goggle with Tubular vision & Gyroscope, Bluetooth remote and Software
<b>SALIENT FEATURES</b>	
Should be able to perform Static SVV test, Head Vertical	
Should be able to perform Static SVV test, Head Inclined at 30 degrees	
Should be able to perform Dynamic Moving backgroundtest, head vertical	
Goggle should ensure tubular vision to cut off the cues from the surrounding	
Gyroscope to measure head tilt of 30 Degrees	
Real Time data recording	
SVV goggle should be separate goggle with Tubular vision & Gyroscope, not combined with VNG	

**\*\* Note: Please don't quote the prices of the above schedule requirement**