



All India Institute of Medical Sciences, Bhubaneswar
At - Sijua (Patrapada), Post - Dumuduma, Bhubaneswar (Odisha) - 751 019

To be uploaded in Website: www.aiimsbhubaneswar.edu.in (Tender)

Reference No: J-11035(017)/2019-20/S&P

Dated: ____/03/2020

Sub: Procurement of Neuro Bio Feed Back (Hardware & Software) & 32 Channel EEG (Make: Medicaid System, Model- Psycho Feed Back CBF-206) for the Department of Psychiatry at AIIMS, BBSR on Proprietary basis - Inviting Comments thereon.

The Department of Psychiatry of AIIMS, Bhubaneswar has requested for Procurement of Neuro Bio Feed Back (Hardware & Software) & 32 Channel EEG (Make: Medicaid System, Model- Psycho Feed Back CBF-206) from **M/s Medicaid Systems, Mohali, Panjab- 140306.**

The Notice is being uploaded for general information of prospective manufacturer/Authorized Distributor/Dealers to submit their objection/proposal/comments, if any, on proprietorship of the item.

In case the product of any manufacturer/Authorized distributor/Dealer conforms to the enclosed specifications, they may submit their proposal for the supply of the same along with the brochures, point by point compliance of the enclosed specifications along with all documentary evidence. One quotation of the product may also be submitted.

The objections/comments/proposal should be sent in sealed cover to the Office of Sr. Procurement Cum Stores Officer, AIIMS, Bhubaneswar (Odisha) – 751019 or through E-mail to spo@aiimsbhubaneswar.edu.in, so as to reach on or before **date: 31.03.2020** failing which it will be presumed that no other firm is interested to offer comments/protest/object and case will be decided on its merits.

The ref. no. – **J-11035(017)/2019-20/S&P** dt: 14-01-2020, due on dated: 31.03.2020 should be superscripted on sealed envelope.

Enclosure:

1. Proprietary Article Certificate from Indenting Officer of Department of Psychiatry, AIIMS, Bhubaneswar. **Annexure-I**
2. PAC of M/s Medicaid Systems, Mohali, Panjab- 140306 **Annexure-II**
3. Manufacturer Certificate. **Annexure-III**
4. Certificate of Registration from Quality Research Organisation. **Annexure-IV**
5. Price Quotation. **Annexure-V**
6. Product Brochure. **Annexure-VI**

Copy to:

- | | | |
|--|---|------------------------------|
| 1. Indenting Officer, Department of Psychiatry | : | for information please |
| 2. Accounts Officer | : | for information please |
| 3. IT Cell | : | for hoisting in the website. |

Sr. Procurement-cum-Stores Officer



MEDICAID SYSTEMS

An ISO 13485 : 2003 Company
Plot No. 667, JLPL Industrial Park,
Sector 82, Mohali-140 306, Punjab (INDIA)
Tele : +91-9814332314
E-mail : aksmedicaid@gmail.com

PROPRIETARY CERTIFICATE

This is to certified that we the Medicaid Systems based at Mohali, (Punjab) are the Sole Manufacture of the following Instrument in India and our Company is an ISO-13485:2016 and products are CE certified. This is our Proprietary item.

Computerized Psych feedback – Model- CBF-206 32

Ref: MS/2019-20/QF/520
Date. 01.02.2020

for MEDICAID SYSTEMS

(Authorised Signatory)

Dr. Susanta K. Padhy
Additional Professor & Head
Dept. of Psychiatry
AIIMS, Bhubaneswar-751019

Certificate of Compliance



We hereby declare that an examination of the under mentioned full quality assurance system has been carried out the following requirements of the national legislation to which the undersigned is subjected, transposing annex I- II (with the exemption of section 4) of the directive 93/42/EEC, Low Voltage Directive 2014/35/EU & Electromagnetic Compatibility Directive 2014/30/EU on medical devices. We UKCert Certify that the full quality assurance system conforms with the relevant provisions of the aforementioned directive. Identification of the products covered by this certificate is given in the Appendix.

Certificate No.: CE-3555

Manufacturer

Name : Medicaid Systems

Address : Plot: 667, JLPL Industrial Park, Sector: 82, Mohali
(SAS Nagar) Punjab - 140306 India

Product Name : Computerised Psychofeedback (CBF - 206) NeuroBiofeedback System,
Psychoanalysis "Biostream" Bio-Monitoring System

Classification of Medical Device, Low Voltage Directive, Electromagnetic Compatibility

The Certification body has performed an audit of the above product quality system covering the design, manufacture and final inspection of the certified product. The quality system has been assessed, approved and is subject to continuous surveillance according to Directive 93/42/EEC Medical Device Directive, 2014/35/EU Low Voltage Directive & 2014/30/EU Electromagnetic Compatibility Directive.

This certificate is issued under the following conditions:

1. It applies only to the quality system maintained in the manufacture of above referenced models and it does not substitute the design or type examination procedures, if requested.
2. The certificate remains valid until the manufacturing conditions or the quality systems are changed.
3. The certificate validity is conditioned by positive results or surveillance audits.
4. After fulfilling the relevant EU legislation of Class I-II in medical directive, the manufacturer shall affix to each device, of the referenced models.
5. The CE mark as shown above can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of conformity and compliance with all relevant EC Directives in Class I-II product. The statement is based on a single evaluation of one sample of above mentioned products. It does not imply an assessment of the whole production.

Validity of this certificate can be verified at www.ukcertifications.co.uk/verify

Date of initial registration	09 th August 2018
Date of this certificate	09 th August 2018
Certificate Expiry	08 th August 2019
Recertification due (subject to the company maintaining its system to the required standard)	08 th August 2021

Daniel..

Authorised Signatory



This certificate is the property of UK Certification & Inspection Limited and shall be returned immediately on request.
71-75 Shelton Street, Covent Garden, London, WC2H 9JQ, United Kingdom
Website: www.ukcertifications.co.uk, email: info@ukcertifications.co.uk

Dr. Susanta K. Padhy
Additional Professor & Head
Dept. of Psychiatry
AIIMS, Bhubaneswar-751018



Certificate of Registration

This is to certify that

Medicaid Systems

Plot No.667, Sector-82, JLPL Industrial Park, Mohali, Punjab, (India)

has been independently assessed by QRO
and is compliant with the requirements of:

ISO 13485:2016

Quality Management System for Medical Devices

For the following scope of activities:

*Design, Manufacture And Supply of Electrical And Electronic
Scientific And Medical Instruments*

Date of Initial Registration: 15th February 2018
Date of this Certificate: 15th February 2018

Certificate Expiry: 14th February 2021
Recertification Due: 14th February 2021

Certificate Number: 1200218074K



Head of Certification

Validity of this certificate is subject to annual surveillance audits to be done successfully on or before 365 days from date of the audit.
(In case if surveillance audit is not allowed to be conducted; this certificate shall be suspended / withdrawn).

The Validity of this certificate can be verified at www.qrocert.com

This certificate of registration remains the property of QRO Certification LLP, and shall be returned immediately upon request.
QRO Certification LLP is accredited by UK Accrediting Forum Limited, UK (www.ukaf.org.uk)
5-4 Jupiter House, Calveley Park, Aldermaston, Reading, Berkshire RG7 2BN UK

India Office: QRO Certification LLP
311, Aggarwal Modern Duzar, C-23, Lawrence Road, Delhi - 110030, India

Dr. Susanta K. Padhy
Additional Professor & Head
Dept. of Psychiatry
All India Institute of Medical Sciences - New Delhi



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Réf. : MS/2019-20/QF/520-Q

Date : 01.02.2020

The Prof & Head
Department of Psychiatry
AIIMS
Bhubaneswar – (Odisha)

QUOTATION

Sub.: - Quotation: - Computerized Psych feedback- (Model CBF-206) along with Thirty-two channel Electroencephalography Brain Mapping Systems

Dear Sir

Our offer is as under: -

Sr. No.	Description	Qty. (Nos.)	Amount (in Rs.)
01.	A) Computerized Biofeedback for GSR, Temp, Pulse Rate, Respiration, EMG, EEG & Neurofeedback Parameters Model - PSYCHOFEEBACK: (CBF-206) 1.General Specifications a) The biofeedback is used for conducting training session for the subjects to improve stress management leading to relaxation. The feedback lap is expected to enable the user become aware of physiological process which Normally takes place un consciously with a view to being these under control. The purposed system provide feedback on: - i) GSR (Skin Conductance) ii) Temperature (Skin) iii) Pulse (change in blood flow just below the skin surface). iv) Respiration (Abdominal and Thoracic) v) Electromyography (EMG), (Muscle Tension) vi) Electroencephalography (EEG feedback brainwave activity) b) The recording of subject's Physiological data is captured through user friendly light weight sensor modules and transmitted to the PC using latest technology. c) The sensor records physiological changes (e.g. Heart rate, temperature, Respiration). d) The captured reading is reported visually and auditory e) Psycho feedback makes it possible to deliberately change Physiological functions and helps to change his /her Functional efficiency.	01	5,95,000-00 (Rupees Five Lakh Ninety-Five Thousand only)

Contd./P2...

Dr. Susanta K. Padhy
Additional Professor & Head
Dept. of Psychiatry
AIIMS Bhubaneswar-751019

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Sr. No.	Description	Qty. (Nos.)	Amount (in Rs.)
	2. SOFTWARE FEATURES: - The features of the system are - Audio Visual feedback. - A variety musical variation to set at different level of Relaxation. - 21 Nos. of picture animation. - Separate Monitor for Video animation. - Modular system to enable use of parameters of choice at a particular time. - User friendly sensors to provide simple plug in connection and color coded connectors for easy identification. - Precision and sensitivity levels more than 7 grades. - Simultaneously display of readings- the system is able to give differential readings from one person for different parameters at same time. 3. Description of Parameters: - i) Temperature: The module measures skin temperature It is possible to attach temperature sensor used for measuring temperature to hand or forehead with help of a headband or Velcro strap. ii) Pulse: The module measures pulse amplitude and frequency. It is possible to attach pulse to hand or forehead with the help of headband or Velcro strap. iii) GSR: The module measures skin conductance. It possible to attach Velcro strap to palm of hand and finger. iv) Respiration: The module measures breathing pattern. It is possible to fasten the breathing belt around thorax or abdomen. v) EMG: The EMG signals are detected with silver electrodes (surface electrode) and amplified by a low noise pre amplifier. vi) EEG feedback & Separate Neurofeedback module is used to enhance a particular frequency of electroencephalograph waves. Enhancing different Frequency band activity via training through Neurofeedback describes following frequency band detail: - DELTA, THETA, ALPHA, SMR, MIDRANGE, BETA and HIGH BETA. Neurofeedback analysis. 3-D graphics games for feedback.		Contd./P3...

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Psychofeedback CBF-206

Neurofeedback

Specially used for the management of Stress, Depression, Insomnia, Concentration problems in children & adults, ADHD (Attention Deficit Hyperactive Disorder) in children and adults, OCD (Obsessive Compulsive Disorder), Headache and many more.

"Neurofeedback" is used to enhance a particular frequency band of EEG (Electroencephalogram) waves.

The EEG measures brain waves of different frequencies within the brain. Electrodes are placed on specific sites on the scalp to detect and record the electrical impulses within the brain.

The raw EEG has usually been described in terms of frequency bands: GAMMA (less than 30Hz), BETA (3-30Hz), ALPHA (8-13Hz), THETA (4-8Hz) and DELTA (less than 4Hz).

The effect of enhancing different frequency band activity via training through MEDICAID's Neurofeedback are detailed below:

1. DELTA (0-1 to 4 Hz) can induce drowsiness, trance, deeply relaxed state.
2. THETA (4-8Hz) can induce drifting, trance-like state and if suppressed can impair concentration, ability to focus attention.
3. ALPHA (8-13Hz) can produce deeper states of relaxation and to improve the quality of sleep.
4. SMR (12-15Hz) can produce relaxed focus, improved attention abilities.
5. MIBRANGE BETA (15-18Hz) can produce mental clarity, focus, alertness, IQ etc.
6. HIGH BETA (Above 18Hz) can induce alertness but may also produce agitation etc.

Neurofeedback Benefits

- Persons with Psychiatric and Psychological problems and Tired of taking Medicines.
- Students, Executives, CEOs and Call Centre Employees.
- Hotels, Resorts, Spas, Wellness/Lifestyle Centres.
- Anybody and Everybody who wants to remain Healthy without Medicines!

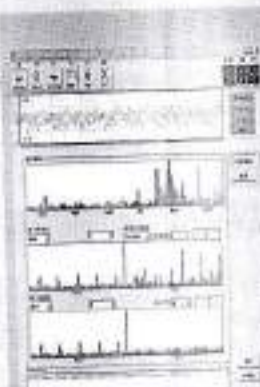
Computer Hardware Standard (Desktop / Laptop)

COMPUTER: i3, i5, i7 or above, 8 GB RAM, 500 GB HDD, CD/DVD ROM, Keyboard, Mouse, Headphone

Separate 15" TFT MONITOR 2: CRTLCD for animation pictures & video games

TRANSFER: Windows supporting any laptop colour printer

OPERATING SYSTEM: Windows based



Neurofeedback spectrum analysis



3D Graphics biofeedback games

Medical Safety Standard is medical approved ISO 9001

Standard Accessories

EEG Gold Plated electrodes	£219.00
EMG electrodes	£21.00
GSR electrodes	£11.00
Pulse Transducer	£11.00
Respiration Belt	£11.00
Temperature Transducer	£11.00
Ground wire	£11.00
Conductive gel	£21.00
Conductive paste 10-20	£21.00
Photo Stimulator Flash	£11.00
CPU interface cable	£11.00
Software Backup on CD	£11.00
User manual	£11.00



MEDICAID SYSTEMS

Neurofeedback & Biofeedback Systems

100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

Computerised Neuro Biofeedback Psychofeedback CBF-206



An effective device
to teach relaxation without consuming
pills and hence no side effects

Features

- High sensitivity USB interface connection with computer.
- The reading of subject's physiological data captured through user friendly, light weight sensor modules and transmitted to the PC using state-of-art technology.
- Storage of patient's data for review and multiple precision and sensitivity levels.
- Audiovisual forms of biofeedback: variety, musical vibration, animation images and video games pre-defined program to modify the level of relaxation.
- Modular system to enable use of parameters of choice at a particular time.

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What is biofeedback

Biofeedback is a technique in which people are trained to improve their health by learning to control certain internal bodily processes that normally occur involuntarily, such as heart rate, blood pressure, muscle tension and skin temperature. These activities can be measured with electrodes and displayed on a monitor that both the participant and his or her practitioner can see. The monitor provides feedback to the participant about the internal working of his or her body. This person can then be taught to use information to gain control over these "involuntary" activities.

How does biofeedback work

Scientists are not able to explain exactly how or why biofeedback works, there does seem to be at least one common thread: most benefits from biofeedback have conditions that are brought on or made worse by stress. For this reason, many scientists believe that relaxation is key to successful biofeedback therapy.

What happens during a biofeedback session?

In a normal biofeedback session, electrodes are attached to the skin. These electrodes then feed information to a small monitoring box that translates the physiologic response into a tone that is moving in pitch, a visual meter that varies in brightness, or a computer screen that mental exercises. Through trial and error, people can learn to identify and control the mental activity that will bring about the desired physiological changes.

How many sessions will I need

Each session generally lasts less than one hour. The number of sessions required depends on the condition being treated. Many people begin to see results within 8 to 10 sessions. Treatment of headache, insomnia, and Raynaud's disease (a condition that causes diminished blood flow to the fingers, toes, nose, ears) requires at least 10 weekly sessions and then less frequent sessions as health improves. Conditions like high blood pressure, however, usually require 20 weekly biofeedback sessions, you will also be taught mental before exercises and relaxation techniques that can be done at home and must be practiced at least 5 to 10 minutes every day.

Therapeutic Management of:

- Chronic Stress
- Anxiety
- Asthma
- Anorexia
- Autism
- Raynaud's disease
- Autism
- Backpain
- Bed Wetting
- Constipation
- Diabetes
- Headache
- Migraine
- Fecal Incontinence
- Epilepsy and related seizure Disorders
- High Blood Pressure
- Irregular heartbeats (cardiac arrhythmia)
- Learning Disabilities
- Motion sickness
- Muscle Spasms
- Sexual disorders including pain with intercourse
- Spinal Cord Injuries



See a biofeedback session in a room having concentration, stress, and concentration and hyperactive.

Are there different types of biofeedback?

The six commonly used forms of biofeedback therapy are or it can be used 32 channel EEG (Brain Mapping):

- Neurofeedback/ electroencephalography (EEG), which measures brain wave activity
- Electromyography (EMG), which measures muscle tension
- Thermal biofeedback, which measures skin temperature
- Pulse/Heart Rate (HR) measures pulse amplitude and frequency with pulse oximetry HRV (Heart Rate Variability)
- GSR measures skin conductance with attached skin strip on finger
- Respiration rate biofeedback, which measures respiration rate



Are there any risks associated with biofeedback?

Biofeedback is considered a safe procedure. No negative side effects have been reported.

How can I find a qualified practitioner?

Specialists who provide biofeedback training range from psychiatrists and psychologists to nurses, dentists, and physicians.

Biofeedback Games

Select a game out of number of games provided. Playing our games you learn the skills of relaxation.



3D Graphics biofeedback games for participants



Signature