



National Drug Dependence Treatment Centre  
All India Institute of Medical Sciences,  
Store Section (NDDTC)

Ref. No. 05/NDDTC/Proprietary item/2017-18/St.

Dated: 12-01-2018

Subject: Purchase of "Bio Chip Array Technology Analyzer" for screening New Psychoactive substance (NPS) in biological specimens for Drug Abuse Testing Laboratory at NDDTC, GZB, AIIMS on proprietary basis - Inviting comments thereon.

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NDDTC Store has received a request letter from Prof. Raka Jain Officer In-charge Lab at NDDTC, AIIMS Ghaziabad for the Purchase of "Bio Chip Array Technology Analyzer" for de-addiction center on proprietary basis. The Proposal submitted by M/s Randox Toxicology.

The above documents are being uploaded for open information to submit objections, comments, if any, from any manufacture regarding proprietary nature of "Bio Chip Array Technology Analyzer" within issue of 15 days giving reference no. 05/NDDTC/Proprietary item/2017-18/4. The comments should be received by Stores officer, 2<sup>nd</sup> Floor, Admin. Block NDDTC, Ghaziabad on or before **27.01.2018 up to 12.30 p.m.**, failing which it will be presumed that any other vendor is having no comments to offer and case will be decided on merit.

*[Handwritten signature]*  
NDDTC-AIIMS  
12/01/18


Encl: Related Document enclosed.

1. PAC Certificate enclosed.
2. Specification of Document

**AIIMS, ANSARI NAGAR, NEW DELHI - 110029**  
**PROPRIETARY/SPECIFIC BRAND GOODS CERTIFICATE**

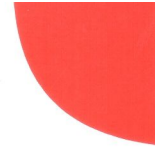
- |   |  |
|---|--|
| 1. Item/type/Model No. required:<br>along with specification  | Bio Chip Array Technology Analyzer   |
| 2. Is the item a spare part attachment:<br>or accessory for an existing equipment   | No   |
| 3. Name of Manufacturers supplier of:<br>the item proposed by the indenter  | Randox Laboratories Pvt. Ltd, UK   |
| 4. Are they sole manufactures/sold:<br>distributors of the item   | Yes  |
| 5. Is there any other item with similar/<br>equivalent specification available in the<br>market to meet the job requirement<br>envisaged. If the answer is yes, why the<br>same can't be procured. Demanding Officer<br>should bring out comparative functional<br>advantages/cost effectiveness of the<br>recommended item form these offered<br>by other: | Not Available  |
| 6. What were the efforts made to locate alternative<br>source of supply or use other substitutes:   | Literature Search through Internet and<br>demonstrations in different conferences  |
| 7. Why open/limited tender can't be resorted to,<br>for locating alternative source:  | The item is proprietary of M/S Randox<br>Laboratories Pvt. Ltd, UK for screening New<br>Psychoactive Drugs in biological specimens |
| 8. Are the proprietary items certifying that the rates<br>are reasonable or not:  | Rates seems to be reasonable<br>However, negotiation will be done by appropriate<br>Committee                                      |
| 9. Any other justification for procuring item form<br>Single source:  | As detailed in point No.7  |

*Rakha Jain*  
 Signature of Indentor  
 (Demanding Officer)  
 Dr. RAKA JAIN / डॉ. राखा जैन  
 Professor / प्रोफेसर  
 National Drug Dependence Treatment Centre  
 राष्ट्रीय नशील पदार्थ उपचार केंद्र  
 Deptt. of Psychiatry / मनोरोग विभाग  
 AIIMS, New Delhi-29/Ansari Nagar, New Delhi-29

*Rakha*  
 Countersign  
 (Head of the Department)  
 Dr. R. S. CHADDA  
 Joint Director of Services  
 Deptt. of Psychiatry & Behavioural Science  
 आचार्य मनोरोग विभाग, आचार्य मनोरोग विभाग  
 AIIMS, New Delhi-29, New Delhi-29

I certify that the item at Sr. No. 1 above is required to be procured on single tender basis as the source of supply is definitely known the specified brand proposed was advantages in meeting our functional requirements and limited tender system could be dispensed with as they would serve no useful purpose in the particular case.

(Strike out whichever is not applicable)



To,  
The Director,  
All India Institute of Medical Sciences  
Ansari Nagar, New Delhi-110029

28<sup>th</sup> December 2017

Quotation Number	RXD/IND010/EI
Company Name	All India Institute of Medical Sciences
Address	Ansari Nagar, New Delhi, 110029
Radox Contact	Nikith Ninan

#	Product Code	Description	Quantity	Unit Price	Total Price INR
1	EV3602	Evidence Investigator-Biochip Array Technology Analyser Imaging Module Camera Full computer System Software Barcode Scanner Thermo-shaker Printer Operators Manual	1	63,55,932.00	63,55,932.00
				Total INR	63,55,932.00
				GST 18%	11,44,068.00
				Grand Total	75,00,000.00

**Radox Laboratories (India) Private Limited**  
Regd Office : Plot No.191 - 195 & 248 - 250, KIADB Industrial Area,  
Bommasandra-Jigani Link Road, Bengaluru, India - 560 105  
T +91 80 2802 5000/675150001, Fax: +91 80 2802 5012  
www.radox.com CIN : U24230KA0004PTC070372



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On purchase of the Evidence Investigator the following services will be offered:

- 5 years Gold package services contract which includes:

SERVICE	Gold Package
Telephone Support (9 am - 5pm GMT Monday-Friday)	Yes
Email Support (9 am - 5pm GMT Monday-Friday)	Yes
1 Preventative Maintenance Visit Per Annum (including spare parts required for the Preventative Maintenance, labour and travel/logistics costs.)	Yes
Up to 1 Troubleshooting Visit Per Annum (including Service Kit, any repair carried out, Spare parts, labour costs and travel expenses.	Yes
<b>EXCLUDING: Kits used to troubleshoot issues).</b>	
Onsite Response time	Within 2-3 Working Days
Software Upgrades	Yes
Consumable Items	Excluded (and charged at prevailing price)
Remote Diagnostics	Yes

- Provision of one of our Biochip Customer service engineer from Randox Headquarters United Kingdom, Research and Development department to visit the customer site for installation, training and validation of our Evidence Investigator Analyser for free of cost.
- Start-up kits 3 Drugs of Abuse kits worth one lakhs will be provided for training and one services kit for installation purposes free of cost.

**Other terms and conditions:**

The analyser and other products shall be delivered within (12) weeks of receipt of confirmed purchase order.

**Installation and Training**

Installation will take place at the customer premises as soon as requested after delivery of the analyser. A technical specialist shall conduct the training course, which will take for five day from the date provided by the customer.

**Payment terms:**

50% advance payment should be done and the remaining 50% after installations is completed successfully.

Yours Sincerely,

*Panwajit Sahu*

(Authorised Signatory)



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www.randox.com CIN : U24230KA2004PTC070372



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Proprietary Letter

19<sup>th</sup> December 2017

Attn:  
The Director,  
All India Institute of Medical Sciences,  
Ansari Nagar,  
New Delhi – 110029  
India

Respected Sir,

We certify that Biochip Array Technology (BAT) is a proprietary technology to Randox Laboratories Limited and there is no other company in the world which is licensed to manufacture Evidence Investigator which works on the principle of Biochip Array Technology (BAT) for screening the New Psychoactive Substances. The below mentioned items are Proprietary to Randox Laboratories Ltd, United Kingdom.

1. Biochip Array Technology
2. Evidence Investigator (Biochip Array Technology Analyser)

For and on behalf of Randox Laboratories Limited

Philip Robinson | Regional Manager Europe & Asia  
T: +44 289 442 2413  
M: +44 743 679 2072

*R. Rose*  
*Amil*  
*United Kingdom*  
**RANDOX**  
TOXICOLOGY  
55 Diamond Road Crumlin  
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Randox Toxicology Limited, 55 Diamond Road, Crumlin, Co. Antrim, United Kingdom, BT29 4QY, United Kingdom  
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Randox Toxicology Limited is a company registered in the Northern Ireland. Company number: NI 628513. VAT Registered Number: GB 153492758



ALL INDIA INSTITUTE OF MEDICAL SCIENCES  
National Drug Dependence Treatment Centre  
Department of Psychiatry

Dated:1.1.2018

To,

Mr. M.L. Arya  
Store officer  
NDDTC

TPC


Sub: Finalization of technical specification committee for procurement of "Bio Chip Array Technology Analyzer" for screening New Psychoactive substance (NPS) in biological specimens for Drug Abuse Testing Laboratory at NDDTC, Ghaziabad from NFCDA Funds on proprietary basis.


Dear Mr. Arya,

This has reference to the above subject. In this regard, I am enclosing herewith the final and approved technical specification of the said equipment by the evaluation specification committee and other correspondence in original and related to the said equipment. This instrument has to be purchased in the current financial year from NFCDA funds. Approximate cost of the equipment is about Rs.75 lacs. Kindly process it as per AIIMS store purchase rules.

Thanking you,

Yours sincerely

  
Prof. Raka Jain  
O/I NDDTC Lab  
Dr. RAKA JAIN / डॉ. राका जैन  
Professor / प्राध्यापक  
National Drug Dependence Treatment Centre  
राष्ट्रीय नशीला दवा प्रयोगशाला केंद्र  
Deptt. of Psychiatry / मनोरोग विभाग  
AIIMS, New Delhi-29/स.स.स.स., नई दिल्ली-29  
Encl: As stated (Total pages 29 including covering letter)

  
Dr. R.K. CHADDA  
Dr. R.K. CHADDA  
Chief of NDDTC & Professor & Head  
National Drug Dependence Treatment Centre  
Department of Psychiatry  
AIIMS, New Delhi-29/स.स.स.स., नई दिल्ली-29

①

## **“Bio Chip Array Technology Analyzer” For Screening of New Psychoactive Substance (NPS) In Biological Specimens**

**Number required: 1(one)**

### **1. Specification**

- a. The analyser should be a bench top multiplex, imaging system for toxicology biochip array assays that uses a Charge coupled device (CCD) camera with a biochip array technology
- b. The drug assays should be competitive and sandwich competitive immunoassay methods using chemiluminescent reaction (i.e., using Horse Radish Peroxidase (HRP) as the detection substrate to generate the chemiluminescent signal) for detection by a charge-coupled device (CCD) camera.
- c. Assays should be interpreted as qualitative and quantitative.
- d. The analyser should be capable of performing simultaneous detection of at least 20 drugs of abuse assays from a single patient sample.
- e. The calibration method for the analyser should be a nine-point calibration.
- f. The analysers should be capable of handling whole blood, oral fluid, urine, tissue (post-mortem samples & viscera), vitreous humor and hair samples, etc.
- g. The analyser should have user defined cut off values for the toxicology panels.
- h. All assays and analysers should comply with all CE regulations or FDA for their use.
- i. Suppliers should state their current ability to test other matrices.
- j. Suppliers should state their ability to develop or upgrade new or novel markers for New Psychoactive substances (NPS) to run on this instrument.
- k. The analyser should have a LIMS Bi-directional interface.
- l. The analyser should be comprised of the following components:

#### **Accessories**

- 1x Barcode scanner
- 1x Thermo-shaker
- 1x Full computer with printer
- 1x Key-board
- 1x Mouse
- 1x Printer
- 1x 6-carrier holder
- 1x Operators Manual
- 1x 4 kVA online UPS (one hour back up)

## 2. Specifications of the Accessories

### a. Hand Held Barcode Scanner

- i. A barcode scanner should be supplied with the analyzer to enable data entry. This scanner should be used with multi-analyte calibration standards and quality control material.
- ii. It should also be used to enter Patient sample data.
- iii. The Barcode should be able to read the following Symbol Valid character.
  - (a) Interleaved 2 of 5 Numeric (0–9)
  - (b) Code 39 Digits (0–9), alphabetical letters, symbols (-, space, \$, /, +, %, )
  - (c) Code bar Numeric, symbols (-, \$, :, /, , , +)
  - (d) Code128 All ASC II code characters [digits (0–9), alphabetical Set A, Set B, Set C letters (uppercase/ lower-case), symbols, control characters]
  - (e) Code 9 3 Digits (0–9), alphabetical letters, symbols (-, space, \$, /, +, %, )

### b. Thermoshaker Specifications:

- I. The analyser should be supplied with a Thermoshaker unit which enables simultaneous incubation of six biochip carriers at a time on the handling tray.
  - II. The heated lid and baseplate should provide bi-directional heating which ensures:
    - (a) Temperature stability
    - (b) Temperature uniformity across the Biochip well
    - (c) Condensation prevention.
- The Thermoshaker should:**
- i. Accommodates 6 carriers in a handling tray.
  - ii. Variable temperature microplate shaker (Temperature range: ambient +25 to +60°C) with 1°C increment.
  - iii. Variable speed range 250 – 1200 rpm (Horizontal)
  - iv. Speed setting : 10 rpm
  - v. 2 mm shaking orbit for effective mixing.
  - vi. Timed operation: 1 minute to 96 hours with buzzer and automatic switch off.
  - vii. Display 16x2 sign LCD

### c. Computer Hardware Overview

The analyzer should be controlled via bespoke software, supplied with the computer hardware. The computer hardware should consist of the following components.

- i. **Flat screen** the main interface for the control of all system functions
- ii. **Display** Graphical User Interface (GUI) screen
- iii. **Keyboard** Standard QWERTY key board
- iv. **Disc drives**
- v. **Removable Media** for saving or transferring sample information and installing assay information.

- vi. **Hard Drive** for storage device and contains operating software, sample test, quality control and calibration results.
- vii. **CD ROM/CD Writer** for updating and loading new software.
- viii. Back up versions of the system and software should be supplied on Compact Disc (CD).
- ix. **Mouse** for various screens and functions on the PC.
- x. **Laser** for Printing copies of Patient, Quality Control (QC) and Calibration result data in any of the available report formats.
  - a. Print,Copy,Scan
  - b. USB, Wireless
  - c. Colored
  - d. Print easily with r Smartphone/Tablet wirelessly
  - e. Half the size of other All in one Printers
  - f. Mobile Printing Capability
  - g. Interface: USB, Wireless
  - h. Power And Operating Requirements of printer includes
    - Operating Temperature range: 5°C - 40°C
    - Power consumption (standby): 220 V
    - Operating Humidity range: 20% - 80% RH
    - %
    - Power requirements: AC 100 - 240 V, 50/60 Hz

d. **Software specifications**

The analyser MUST be controlled by software; the following functions MUST be performed automatically:

- i. Processor, chip set, graphic options, memory, hardware
- ii. image capture, generation of multiple calibration curves
- iii. storage of multiple calibration curves
- iv. quantification of individual markers
- v. generation of Levy-Jennings plots for Q.C. samples
- vi. data export facility
- vii. generation of multiple report types
- viii. unique user log passwords and data traceability
- ix. storage of work list templates
- x. traceability of error in the manual assay procedure

3. **Power and Operating Requirements of the Analyzer:**

Instrument should operate with Indian Standard conditions (Power 200-240V with safeguards against high voltage).

4. **On purchase of the Analyzer:**

Company should provide all the above mentioned component along with two free kits and controls for training consisting of 100 chips which can screen 100 samples of the following newer drugs:

- Bath Salts (a-PVP/FLAKKA, M.D2V, Methcathinone and Mephedrone)
- Phenylpiperazines
- Benzylpiperazines
- Mescaline
- Salvinorin
- Synthetic Cannabinoids (XLR11/UR144, JWH-018, AB-PINACA and AB-CHMINACA )
- Synthetic Opioids (MT-45, U-47700, W-18/W-19/W-15)
- N-BOMes
- Creatinine (Urine assay)

Also 1 service kit for camera alignment must be provided.

5. **TRAINING SHOULD BE PROVIDED BY THE COMPANY** : During this training the engineer should install the machine for free of charge and train the technician at the customer site till customer satisfaction.