Enquiry No: NCIL/R&D/ACAD./WBDSTBT/PS/23-24/EQ-3(I)   **Dated:** 25/11/2024

Tender Notification

We intend to purchase the commodities as specified below (see Annexure - I) and invite quotation from the competent and bonafide vendors/ distributors/ dealers/manufacturers having registration of GST for the supply of following items to this Organization within the stipulated deadline from the date of publication of this notice in the web site as per specifications appended below.

If you are interested, kindly send your offer in precise and complete terms within the date and time as mentioned below.

Last date for Submission: 13.12.2024 (18:30 HRS); DATE &TIME of OPENING: 16.12.2024 (17:30 HRS)

Sealed quotation to be submitted to the following address:

Dr. Pratim Sengupta,
Managing Director,
Nephro Care India Ltd.,
18, JC Block Ln, JC Block,
Sector III, Bidhannagar,
Kolkata, West Bengal 700098

Yours faithfully,
(Pratim Sengupta / PI of the Project)

Annexure – I: List of Items

Mechanical and Electronic Circuits Hardware
PART - I

Sl. No.	Name of the Item	Quantity	Desired Specification
1	Waterproof Ultrasonic Obstacle Distance Sensor Module, with 2.5m Separate Probe	03	Operating voltage (v): 5; Operating Current (mA): 30; Static Current (mA): 5; Operating Range: 25cm ~ 4.5m; Resolution: 0.5 cm
2	Panasonic Bubble Detector Sensor - 25°C-55°C (TA), BE-A301	01	SKU: IND.MIS.924466151; Model: BE-A301; Series: BE-A; NPN - Open Collector; -25°C-55°C (TA)
3	DS18B20 Water Proof Temperature Probe – Black (1m) Original Chip	02	3 to 5.5 V; -55 to 125 °C; DS18B20 temperature sensor
4	NTC Thermistor Temperature Sensor	03	Probe sheath: Stainless Steel; Resistance value: 10K ± 1%; -20 to 105 °C; Length: 1 meter; 100 MOhm
5	Electric Solenoid Water Air Valve Switch	04	12VDC; 0.6 A; 600 mA
6	Rechargeable Lithium Ion (NMC) Battery Pack with compatible charger	02	12V 10Ah; 65W; C14 socket
7	LM35D Analog Temperature Sensor Module + Cable	03	LM35 temperature sensor; -55°C-150°C
8	Charger/Discharger 1-6 Cells Battery Charger	02	IMAX B6 80W 6A; 11 ~ 18V; 80W (max.); 0.1 ~ 6A

Annexure – I: List of Items (contd.)

Sl. No.	Name of the Item	Quantity	Desired Specification
9	LED Signal Indicator Built-in Buzzer	02	Red AC/DC220V 16mm AD16-16SM
10	LED Signal Indicator Built-in Buzzer	02	16mm AD16-16SM; Green AC/DC220V
11	Three Colors RGB LED Sensor Module DIY Starter Kit	02	Hardware Platform: Arduino, 5V, common cathode drive; 3 Colors RGB plug-in full-color LED Sensor Module
12	Arduino 3.2 inch TFT LCD Display Shield	04	240 RGB*320-dot resolution; Multi-domain vertical alignment (MVA)
13	Non-Contact Human Body Infrared Temperature Measurement Module	02	Capable of working from 3.3V to 5V input (2 mA); power regulator IC built-in; Standard I2C interface with built 2xpull upresistors; Sensor working temperature, -40 to +125 $^{\circ}$C; Sensing temperature range, -70 to +380 $^{\circ}$C
14	Raspberry Pi 4 Model B 8GB Starter Kit	02	Broadcom BCM2711, Quad core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz; LPDDR4-3200 SDRAM; 2.4 GHz and 5.0 GHz IEEE 802.11ac wireless, Bluetooth 5.0, BLE; H.265 (4kp60 decode), H264 (1080p60 decode, 1080p30 encode), Micro-SD card, 5V DC via USB-C connector, 5V DC, Power over Ethernet (PoE) enabled
15	ESP 8266 NodeMCU CP2102 board	02	Open-source firmware and WiFi development board kit; 5V to 14V input voltage; In-built USB to TTL Serial Converter
16	Microcontroller board, ATmega2560 based	02	5V operating voltage; 7-12V input voltage; 54 digital I/O pins; 16 analog input pins; 4 KB EEPROM
17	Plusivo Soldering Kit	01	60 W power; 230 operating voltage; with millimeter EU plug
18	Raspberry Pi 15.3W USB-C Power Supply - Official (For Raspberry Pi 4)	03	5.1V / 3.0A DC output; 96-264Vac operating input range; Short circuit, overcurrent and over temperature protection; 1.5m 18 AWG captive cable with USB-C output connector
19	Raspberry Pi Official Mini HDMI C	03	19-pin HDMI® A/Male to 19-pin HDMI® Type C/Male; 1000mm length; Nickel-plated plugs; 4Kp60 compliant; 20Mohm 300VDC insulation, withstands 300VDC for 0.1s
20	Official Micro-HDMI Male to Standard HDMI Male Cable for Raspberry Pi	03	1 meter; Fully compatible with high-speed HDMI with ehernet specification (v1.4)
21	Official Raspberry Pi 5 Active Cooler	03	Input voltage: 5V DC supplied via four-pin fan header; Fan speed control: Pulse width modulation control with tachometer; Max. airflow: 1.09 CFM; fan speed: 8000 RPM +/- 15%; Anodised Al body
22	Amazon Basics 51-Piece Precision Screwdriver Bit Set	03	Model: DS-AMZ036; ASIN: B07V843T2W

Enquiry No: NCIL/R&D/ACAD/WBDSTBT/PS/23-24/EQ-3(I)　　　　**Dated:** 25/11/2024

Annexure – I: List of Items (contd.)

Sl. No.	Name of the Item	Quantity	Desired Specification
23	Noel Solder Wire 60/40 1.00mm 50gm	02	Rosin Cored Solder Wire; Flux, 2%; 60/40 tin lead solder wire
24	20A ACS712 Current Sensor	04	100 mV/A output sensitivity; 5.0 V, single supply operation; Output voltage proportional to AC or DC currents
25	Jumper Wire Set - M2M, M2F, F2F	04	40 pcs each; 20 cm long
26	CJMCU-219 INA219 I2C Interface	03	Operating Voltage (VDC): 3 ~ 5.5 · Accuracy: ±0.5%
27	Universal PCB Prototype Board Double-Side	04	12 x 18 cm, Base Material FR4; Copper Thickness 1-4 OZ; Board Thickness 1.6; Min. Hole Size 0.3mm; PCB Weight: 60 to 65 g
28	24V 15A 360W AC/DC Switching Adapter Converter Driver	01	24V 15A 360W Power Supply
29	High Flow Diaphragm Liquid Pump	02	KLP01.30 Diaphragm liquid pump; 12V/24V; ≥500ml/min
30	Water Flow Measurement Sensor	02	Model, YF-S201; Hall Effect sensor; 5 to 18V DC; 5V TTL; 1 to 30 Liters/Minute working flow rate
31	BeagleBone Rev C	01	Cortex CPU, 1 GHz, 4GB flash memory
32	STM32 Nucleo-144 development board with STM32H743ZI MCU	01	STM32 microcontroller in an LQFP144 or a TFBGA225 package; 3 user LEDs; 2 user and reset push-buttons; Board connectors: SWD, ST Zio expansion connector including ARDUINO Uno V3; ST morpho expansion connector

TERMS AND CONDTIONS FOR SUBMISSION OF QUOTTION

1. Payment terms: 100% payment shall be made to you after receipt of the stores in good order & conditions and successful installation & commissioning and thereafter certification of your final bill by the concerned Principal Investigator.
2. Warranty Term: 30 days (Minimum)
3. Delivery Period: No more than 30 Days
4. Name of the Company with full address in details to whom purchase order is to be placed.
5. Packing & Forwarding Charges: Please mention if any.
6. Freight & Insurance Charges: Please mention if any.
7. GST/IGST Charges: As applicable or may vary depending on the item or if the job/work is related with services.
GSTIN Regn. No. & PAN No. and Bank Details are required to be mentioned in Quotation.
8. No Hidden Charges are allowed.