



**Bihar Medical Services & Infrastructure Corporation
Limited**

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CORRIGENDUM-IV

**Tender for rate contract and supply of Medical Devices/Consumables required for RTPCR Lab
installed at different Govt. Health Institutions of Bihar**

Notice Inviting Tender Ref No.: - BMSIC/MEDICAL DEVICE/CONSUMABLES/21-03

Dated:05/05/2021

(Only through E- Tender on website: -www.eproc.bihar.gov.in)

Bihar Medical Services and Infrastructure Corporation Limited (BMSICL) has invited e-Bids from the interested parties for “**Tender for the Procurement, rate contract and supply of Medical Devices/Consumables required for RTPCR Lab installed at different Govt. Health Institutions of Bihar**”, vide Notice Inviting Tender No.- **BMSIC/MEDICAL DEVICE/CONSUMABLES/21-03**. Detailed tender document containing eligibility criteria, selection mechanism, other terms and conditions are available on the website www.eproc.bihar.gov.in.

After considering the suggestions/ queries received from the prospective bidders & after due deliberations on all the aspects, certain amendments have been made with regard to the tender document as per Annexure-A, amendments with regard to the product list as per annexure-B (Revised Tendered Product List) and amendments with regard to the product Technical Specification as per annexure-C of this Corrigendum-IV. All other terms and conditions along with the tender schedule as mentioned in corrigendum- III shall remain unchanged.

**Sd/-
GM (Procurement)
BMSICL**

ANNEXURE-A (Amendments in Bid Clauses)		
Sl. No.	Present Clause	Amended Clause
1	Clause 5(a): - Tender bid is invited directly from Manufacturers/ Loan Licensees or Direct Importers only. Distributors/agents/contract manufacturers are not eligible to participate in the tender.	<p>Clause 5(a) may be read as follows: -</p> <p>i) Tender bid is invited directly from Manufacturers or Direct Importers or Manufacturers as well as direct importers or reputed govt suppliers.</p> <p>ii) The bidder has to quote for all items of the product list otherwise the bid will be treated as non-responsive.</p>

<u>ANNEXURE- B</u>				
<u>REVISED TENDERED PRODUCT LIST</u>				
S. N.	Name of the Products	Specification	Unit	Estimated Tendered Quantity per RTPCR Lab per month
1	Cryovials	(2ml) & as per annexure C	Each Piece	26,000 Units
2	Cryobox	(100 set) & as per annexure C	Each Piece	650 Units
3	Pipette Aid	0.5-10µl & as per annexure C	Each Piece	26 Set
4	Pipette Aid	10-20µl & as per annexure C	Each Piece	26 Set
5	Pipette Aid	20-200µl & as per annexure C	Each Piece	26 Set
6	Pipette Aid	100-1000µl & as per annexure C	Each Piece	26 Set
7	Forceps	As per Annexure C	Each Piece	65 Units
8	Discarding jars	As per Annexure C	Each Piece	26 Set (Red, Black & Yellow)
9	Biomedical waste disposal (BMW)bags	(with ties for sealing, preferably autoclavable) (Red, Black, Yellow) & as per Annexure C	Each Piece	6500 Units
10	Biomedical waste disposal Bins	As per Annexure C	Each Piece	260 Units
11	Iceboxes with gel packs	As per Annexure C	Each Piece	130 Units
12	Tube rack	(15ml tubes) & as per Annexure C	Each Piece	390 Set
13	Tube rack	(20ml tubes) & as per Annexure C	Each Piece	390 Set
14	Permanent Marker pen	(for tube or cryovial labelling) as per Annexure C	Each Piece	325 Units
15	Cellotape	As per Annexure C	Each Piece	650 Units
16	Printer with label markers (for label print outs)	As per approved License	Each Piece	26 Set
17	1.7 ml Eppendorf Tubes	As per Annexure C	Each Piece	13,000 tests
18	Cryovial/ Eppendorf rack	As per Annexure C	Each Piece	390 Set
19	Micropipettes-	100-1000µl & as per Annexure C	Each Piece	91 Set
20	Filter Barrier Tips:	200µl & as per Annexure C	Each Piece	26,000 Pcs
21	Filter Barrier Tips:	1000µl & as per Annexure C	Each Piece	26,000 Pcs
22	Tissue rolls	As per Annexure C	Each Piece	650 Units
23	PCR tubes/ PCR plates	(200µl) & as per Annexure C	Each Piece	13000 tests
24	PCR plates adhesive seals & plate sealer	As per Annexure C	Each Piece	13,000 tests

25	Micropipettes-	0.5-10µl & as per Annexure C	Each Piece	52 Pcs
26	Micropipettes-	2-20µl & as per Annexure C	Each Piece	52 Pcs
27	Micropipettes-	20-200µl & as per Annexure C	Each Piece	52 Pcs
28	Filter Barrier Tips:	10µl & as per Annexure C	Each Piece	26,000 Pcs
29	Filter Barrier Tips:	20µl & as per Annexure C	Each Piece	26,000 Pcs
30	Nuclease free water for PCR	As per Annexure C	Each Piece	13,000 tests
31	RNase P	As per Annexure C	Each Piece	13,000 tests

Note- 1) The bidders are required to quote all the above-mentioned product otherwise bid remain non responsive and for deciding overall L1 bidder the procedure mentioned in Clause 14 e of the Standard bid document will be taken into consideration.

2) This is the centralized tender for the State of Bihar. Various labs are under process of construction hence the lab requirement may increase in future. The required quantity may vary in accordance with the actual need as the situation warrants.

3) The above product list is generic in nature, the actual requirement may vary as per the make and model of the equipment installed in a lab so the bidders are directed to quote equipment specific product, if any, separately.

4) Two products i.e. Micropipettes 20-2000 µl & Filter Barrier Tips 200µl floated vide NIT S.N. 20 & 31 are hereby deleted from the original product list.

5) The name of the MCH/Institution where the RT-PCR Machines & RNA Extraction machine with their Make & model installed are mentioned below:-

S.NO.	Name of the MCH/Institution	Make & Model
1	RMRIMS, Patna	Real Time PCR System (Make-Roche, Model- LightCycler 480II Instrument)
		Real Time PCR System (Make-Roche, Model- COBAS 6800)
		Fully Automated DNA/RNA Extraction Machine (Make: Roche Model: MagNA Pure 96)
2	IGIMS, Patna	RTPCR (Make- Qiazen, Model- Rotor Gene Q5 PLEX)
		Fully Automated DNA/RNA Extraction Machine (Make: Roche Model: MagNA Pure 96)
		RNA Extraction Machine (Make-LabX)
		RNA Extraction Machine (Make-LabX)
3	DMCH Darbhanga	RTPCR (Make-Thermofisher , Model- Quant Studio-5)
		RNA Extraction Machine (Make-LabX)
		RNA Extraction Machine (Make-LabX)

		RTPCR (Make-Thermofisher , Model-Quant Studio-5)
		Automated RNA Extraction machine (Make- Thermofisher, Model- Duo Prime)
		Automated RNA Extraction machine (Make- MGI)
		RTPCR (Make-Thermofisher) Quant studio-5
		RTPCR (Make-Thermofisher , Model-Quant Studio-5)
4	JNKTMCH Madhepura	Automated RNA Extraction machine (Make- Thermofisher, Model- Kingfisher Flex 96)
		RNA Extraction Machine (Make-LabX)
		RNA Extraction Machine (Make-LabX)
		RTPCR (Make-Thermofisher) Quant studio-5
		RTPCR (Make-Biorad)
5	GMC Bettiah	RTPCR (Make-Thermofisher , Model-Quant Studio-5)
		RTPCR (Make-Biorad)
		Automated RNA Extraction machine (Make- Thermofisher, Model- Kingfisher Flex 96)
		RTPCR (Make-Thermofisher) Quant studio-5
		RNA Extraction Machine (Make-LabX)
		RNA Extraction Machine (Make-LabX)
6	SKMCH Muzaffarpur	RTPCR Machine (Make- Quiagen)
		RTPCR Machine (Make- Biorad)
		Automated RNA Extraction machine (Make- Thermofisher, Model- Kingfisher Flex 96)
		Automated RNA Extraction machine (Make- MGI)
		RTPCR (Make-Biorad)
		RTPCR (Make-Thermofisher) Quant studio-5
		RNA Extraction Machine (Make-LabX)
		RNA Extraction Machine (Make-LabX)
7	PMCH Patna	RTPCR (Make-Thermofisher , Model-Quant Studio-5)
		RTPCR (Make-Biorad)
		Automated RNA Extraction machine (Make- Thermofisher, Model- Duo Prime)
		RTPCR (Make-Thermofisher) Quant studio-5
		RNA Extraction Machine (Make-LabX)
		Automated RNA Extraction machine (Make- Thermofisher, Model- Kingfisher Flex 96)

		Automated RNA Extraction machine (Make- Thermofisher, Model- Kingfisher Flex 96)
8	ANMCH Gaya	RTPCR (Make-Thermofisher , Model- Quant Studio-3)
		Automated RNA Extraction machine (Make- Quiagen, Model- EZ1 Advance Excell)
		RTPCR (Make-Biorad)
		Automated RNA Extraction machine (Make- MGI)
		RTPCR (Make-Thermofisher) Quant studio-5
		Automated RNA Extraction machine (Make- Thermofisher, Model- Kingfisher Flex 96)
9	NMCH Patna	RTPCR (Make-Thermofisher) Quant studio-5
		RTPCR (Make-Biorad)
		Automated RNA Extraction Machine (Kingfisher Flex)
		Automated RNA Extraction machine (Make- Thermofisher, Model- Kingfisher Flex)
		RTPCR (Make-Thermofisher) Quant studio-5
		RNA Extraction Machine (Make-LabX)
		RNA Extraction Machine (Make-LabX)
10	VIMS Pawapuri	RTPCR (Make-Thermofisher) Quant studio-5
		Automated RNA Extraction machine(Make- Thermofisher, Model- KingfisherFlex)
		RTPCR (Make-Biorad)
		RTPCR (Make-Thermofisher) Quant studio-5
		RNA Extraction Machine (Make-LabX)
		RNA Extraction Machine (Make-LabX)
11	JLNMCH Bhagalpur	RT PCR Machine
		Automated RNA Extraction machine (Make Genolution South Korea-, Model- Nextractor NX-48S)
		RTPCR (Make-Biorad)
		RTPCR (Make-Thermofisher) Quant studio-5
		Automated RNA Extraction machine (Make- MGI)
		RNA Extraction Machine (Make-LabX)
		RNA Extraction Machine (Make-LabX)
		RNA Extraction Machine (Make-LabX)
12	DH, East Champaran	RNA Extraction Machine (Make-LabX)
13	DH, Purnea	RNA Extraction Machine (Make-LabX)
		RTPCR (Make-Biorad)
14	DH, Motihari	RNA Extraction Machine (Make-LabX)
		RTPCR (Make-Biorad)

ANNEXURE - C

[1] SPECIFICATION OF CRYOVIALS

1. Polypropylene Colourless sterile tubes to store human or animal cell
2. Temperatures as low as -190°C to -196°C .
3. It should be RNase or Dnase free.
4. ISO certified.

[2] SPECIFICATION OF CRYOBOX

1. Box for storage of cryovials at -80°C
2. Solid polypropylene base with Clear polycarbonate cover for easy identification.
3. Temperature Range: -Withstand cryogenic storage conditions from -135 to 100 C
Alphanumeric grid for easy sample identification
4. Withstand sterilization by autoclave, gas and disinfectant
5. Manufacturer should be ISO certified.

[3] SPECIFICATION OF SEROLOGICAL PIPETTE CONTROLLER (PIPETTE AID) 0.5-10µL

1. Suitable smooth setting of pumping efficiency with high aspirating speed (20-25 ml in 5 second).
2. One finger control for flow and blow out. Single hand operation, must have delivery mode (Gravity delivery blowout) and adjustable motor speed range with thumb.
3. Cordless work for minimum upto 5 hours. LED light battery indicator that alert before 2 hours. Short charging time for battery to full capacity and at least 8-10 hours working capacity.
4. Continuing directly after recharging. Autoclavable pipette adaptors and filter holders.
5. Space saving wall holder and calibration certificates from CE/ISO certified agencies.

[4] SPECIFICATION OF SEROLOGICAL PIPETTE CONTROLLER (PIPETTE AID) 10-20µl

1. Suitable smooth setting of pumping efficiency with high aspirating speed (20-25 ml in 5 second).
2. One finger control for flow and blow out. Single hand operation, must have delivery mode (Gravity delivery blowout) and adjustable motor speed range with thumb.
3. Cordless work for minimum upto 5 hours. LED light battery indicator that alert before 2 hours. Short charging time for battery to full capacity and at least 8-10 hours working capacity.
4. Continuing directly after recharging. Autoclavable pipette adaptors and filter holders.
5. Space saving wall holder and calibration certificates from CE/ISO certified agencies.

[5] SPECIFICATION OF SEROLOGICAL PIPETTE CONTROLLER (PIPETTE AID) 20-200µl

1. Suitable smooth setting of pumping efficiency with high aspirating speed (20-25 ml in 5 second).
2. One finger control for flow and blow out. Single hand operation, must have delivery mode (Gravity delivery blowout) and adjustable motor speed range with thumb.
3. Cordless work for minimum upto 5 hours. LED light battery indicator that alert before 2 hours. Short charging time for battery to full capacity and at least 8-10 hours working capacity.

4. Continuing directly after recharging. Autoclavable pipette adaptors and filter holders.
5. Space saving wall holder and calibration certificates from CE/ISO certified agencies.

[6] SPECIFICATION OF SEROLOGICAL PIPETTE CONTROLLER (PIPETTE AID) 100-1000µl

1. Suitable smooth setting of pumping efficiency with high aspirating speed (20-25 ml in 5 second).
2. One finger control for flow and blow out. Single hand operation, must have delivery mode (Gravity delivery blowout) and adjustable motor speed range with thumb.
3. Cordless work for minimum upto 5 hours. LED light battery indicator that alert before 2 hours. Short charging time for battery to full capacity and at least 8-10 hours working capacity.
4. Continuing directly after recharging. Autoclavable pipette adaptors and filter holders.
5. Space saving wall holder and calibration certificates from CE/ISO certified agencies.

[7] SPECIFICATION OF FORCEPS

1. Must be made of Graded stainless steel conforming to IS 410 & 420
2. ISO 7151 Certified

[8] SPECIFICATION OF DISCARDING JARS

1. Plastic Container Made of HDPE – SPI Resin ID code 2 with Biohazard Sign
2. Puncture, Leak & Tamper Proof
3. Conform to ASTM Standard D1922 and D1909 or IS 14995 :2001
4. Able to Withstand 135°C
5. Size- 5 litre

[9] SPECIFICATION OF BIOMEDICAL WASTE DISPOSAL (BMW) BAGS

1. Plastic Bags of HDPL, LLPE, DP (Biohazard, ISO Certificate & Hospital Name should be Printed) should be biodegradable not reused plastic, bags should be superior quality of thickness of 50 micron or more thickness, non-chlorinated plastic with ties for sealing.
2. Toxicity Test Certification approved by FDA.
3. Bags should be Autoclavable & Puncture proof.
4. Should not emit thick Black smoke in incinerator.
5. Should burn without leaving traces into ashes.
6. Produced by IS/ISO certified under 17088-2008 test complies Indian Standard.
7. Aerobic Biodegradation in presence of Municipal Sewage Sludge Certification.
8. Anaerobic Biodegradation land fill conditions & All climate Condition certification.
9. The firm should be registered under Pollution Control Board as biodegradable Manufacturer.
10. Sizes :- 14 x 18 inches/ 18 x 22 inches
11. Colour : Red, Black and Yellow.

[10] SPECIFICATION OF BIOMEDICAL WASTE DISPOSAL (BMW) BINS

1. Plastic bins LLDPE made from virgin polymer material. Thickness of bins shall be minimum 3mm (+/-0.2mm).
2. Foot operated lid and handle for lifting. Lid mechanism shall be of SS material only.
3. Able to Withstand 135°C

4. LLDPE bucket of Circular top with holding lid support stopper
5. Sizes: 10 litre/20litre
6. SS parts shall be smooth finished. Proper rubber studs shall be provided on the paddle and both ends of 20mm SS Square hollow pipe.
7. Lid of the bin shall be foot operated and SS bottom rod of foot operated mechanism
8. Bin shall be printed as per requirement of Bio Medical Waste Management Committee.
9. Dimensional accuracy ready to use.
10. Produced by an ISO 9001:2015 & 14001:2015 Certified unit.
11. Manufacturer should be CE certified
12. Demonstration of product during technical bid.

[11] SPECIFICATION OF ICEBOXES WITH GEL PACKS

1. The cool box should be durable construction, compact design and made from FDA approved grades of polyethylene material from food grade virgin double walled body with all round EPS/PUF filled insulation, inbuilt handle, heavy base, BIS marked. Excellent insulation maintains uniform temperature for storage & transportation.
2. Ice Box manufacturer conforming to BIS/ISO 9001:2015 or exporter of EPS/PUF insulated Ice Box having Coolant Packs (Ice – Gel-Packs).
3. Tight fittings to keep ice melting rate in line with the best in the world with rubber clamps for locking lid [to prevent corrosion].
4. Tapered inner bottom for maximum drainage with drainage plugs at bottom is preferable.
5. Lid with suitable gasket for better temperature retention.

[12] SPECIFICATION OF TUBE RACK (FOR 15 ML TUBES)

1. Easy storage and access of test tubes in vertical position for 18/48/72 tubes
2. Made of virgin polypropylene
3. Should be unbreakable, autoclavable and able to withstand subfreezing temperatures
4. Able to protect test tubes from minor shocks and damage during transportation.

[13] SPECIFICATION OF TUBE RACK (FOR 20 ML TUBES)

1. Easy storage and access of test tubes in vertical position for 18/48/72 tubes
2. Made of virgin polypropylene
3. Should be unbreakable, autoclavable and able to withstand subfreezing temperatures
4. Able to protect test tubes from minor shocks and damage during transportation.

[14] SPECIFICATION OF MICROPIPETTE (100 µL -1000 µL)

1. Accuracy of 0.5%, CV 0.2%
2. Fully autoclavable
3. With calibration and accuracy certificate
4. ISO Certified
5. Easy to handle, grip and dispense and aspirate fluids.
6. Should not cause repeated stress injury to the user.

[15] SPECIFICATION OF MICROPIPETTE (2 µl -20 µl)

1. Accuracy of 0.5%, CV 0.2%

2. Fully autoclavable
3. With calibration and accuracy certificate
4. ISO Certified
5. Easy to handle, grip and dispense and aspirate fluids.
6. Should not cause repeated stress injury to the user.

[16] SPECIFICATION OF MICROPIPETTE (0.5 µl -10 µl)

1. Accuracy of 0.5%, CV 0.2%
2. Fully autoclavable
3. With calibration and accuracy certificate
4. ISO Certified
5. Easy to handle, grip and dispense and aspirate fluids.
6. Should not cause repeated stress injury to the user.

[17] SPECIFICATION OF FILTER BARRIER TIPS (200 µL)

1. Compatible with international standard pipettes attachable by firm grip.
2. Available in packs of 1000 tips
3. Non sticky in nature with Smooth internal surface
4. Tips should be sharp and pointed
5. Should be Less than 0.5% wastage due to any manufacturing defects
6. Should not be made of reused plastic
7. Manufacturer should be ISO certified

[18] SPECIFICATION OF FILTER BARRIER TIPS (1000 µL)

1. Compatible with international standard pipettes attachable by firm grip.
2. Available in packs of 1000 tips
3. Non sticky in nature with Smooth internal surface
4. Tips should be sharp and pointed
5. Should be Less than 0.5% wastage due to any manufacturing defects
6. Should not be made of reused plastic
7. Manufacturer should be ISO certified

[19] SPECIFICATION OF FILTER BARRIER TIPS (1000 µL)

1. Compatible with international standard pipettes attachable by firm grip.
2. Available in packs of 1000 tips
3. Non sticky in nature with Smooth internal surface
4. Tips should be sharp and pointed
5. Should be Less than 0.5% wastage due to any manufacturing defects
6. Should not be made of reused plastic
7. Manufacturer should be ISO certified

[20] SPECIFICATION OF FILTER BARRIER TIPS (20 µL)

1. Compatible with international standard pipettes attachable by firm grip.
2. Available in packs of 1000 tips
3. Non sticky in nature with Smooth internal surface
4. Tips should be sharp and pointed
5. Should be Less than 0.5% wastage due to any manufacturing defects
6. Should not be made of reused plastic

7. ISO certified

[21] SPECIFICATION OF MICROCENTRIFUGE TUBES (EPPENDORF TUBES) 1.7 ML

1. Clear and transparent tubes
2. FDA approved virgin polypropylene eliminating any trace of heavy metals
3. Leak proof seal for prevention against accidental spillage
4. Withstands temperatures from -80° to +121° C
5. Clear and large graduation on tube body
6. Choice of selecting low retention tube to increase recovery of the sample
7. Compatible with all standard and high capacity centrifuge rotors
8. Non cytotoxic & biologically inert
9. Options for regular white tube, assorted color tube and in amber color for light sensitive reagents

[22] SPECIFICATION OF MICROCENTRIFUGE TUBES RACK (EPPENDORF RACK)

1. Used for holding microtubes of 1.7ml capacity
2. Made of polypropylene, autoclavable
3. Withstand temperatures from 0° C to 135°C
4. Withstand sterilization by gas, autoclaving and disinfectant
5. Rigid container with mesh type gaps for holding 84 cryovials of 1.7ml capacity
6. ISO Certified

[23] SPECIFICATION OF PCR TUBES/PCR PLATES (200 µL)

1. 96 wells, raised rims for effective sealing, individually wrapped, D Nase, R Nase, Pyrogen free.

[24] SPECIFICATION OF PCR PLATES ADHESIVE SEALS & PLATE SEALER

1. Peel adhesive should withstand Temp range -20°C to 120°
2. Should be Colour clear.

[25] SPECIFICATION OF NULEASE (RNASE) FREE WATER FOR PCR

1. Clear and Colourless water.
2. Should be RNase & DNase free.
3. Should be in a pack of 100 ml
4. ISO/GMP certified

[26] SPECIFICATION OF MARKER PEN

- 1) Permanent marker pen.
- 2) Colour : Black/blue
- 3) Precise, narrowed tip for extreme control (0.3 to 0.5mm)
- 4) Permanent on most surfaces, fade and water resistant.
- 5) Quick-drying ink with non-toxic formula

6) ISO Certified

[27] SPECIFICATION OF CELLO TAPE

1. High quality strong adhesive.
2. 40 microns transparent film
3. easily tearable by hands
4. 1/2 inch width size of tape
5. ISO Certified
6. Length : 60 meters

28] SPECIFICATION OF TISSUE ROLL

1. Tissue Roll white colour plain Paper of 1-2 mm thickness of GSM 50-80.
2. ISO 12625-1:2011 certified

**Sd/-
GM (Procurement)
BMSICL**

-END-