Amendment No. 2

23.10.19

Sub: Amendment to the Bidding Document

Ref.: Notice Inviting Bid ref. HITES/PCD/NCI-AIIMS/42/19-20 dated 30.08.2019 read with its Amendment No. 1 dated 11.10.19.

The following changes have been authorised and are being incorporated in the above referred Bidding Document.

SECTION- VI

LIST OF REQUIREMENTS

<u>Existing:</u>

Part I:

Sl. no.	Tender ID	Short Description of goods	Quantity	Warranty Period	CAMC period after warranty
8	2019_HLL_31185_8	Mobile Blood Donation Van	01	05 Years	05 Years

Part II: Required Delivery Schedule:

For Indigenous and/or Imported goods:

Supply, Installation and Commissioning to be completed within **90 days** from the date of NOA or date of opening of LC or date of approval of layout drawing (if applicable), whichever is later.

Read As:

Part I:

Sl. no.	Tender ID	Short Description of goods	Quanti ty	Warranty Period	CAMC period after warranty
8		Mobile Blood Donation Van	01	03 Years for Mobile Van & 05 Years for Equipment & Fabrication	05 Years for Mobile Van & 05 Years for Equipment & Fabrication

Part II: Required Delivery Schedule:

For Indigenous and/or Imported goods:

i) For tenders at Sl. no. 01 to 07 (i.e. Tender ID: 2019_HLL_31185_1 to 2019_HLL_31185_7)

Project build-out, supply and installation to be completed within **120 days** from the date of NOA or date of opening of LC or date of approval of layout drawing (if applicable), whichever is later.

ii) For tender at Sl. no. 08 (i.e. Tender ID: 2019_HLL_31185_8)

Supply, Installation and Commissioning to be completed within **180 days** from the date of NOA or date of opening of LC or date of approval of layout drawing (if applicable), whichever is later.

SECTION – VII

TECHNICAL SPECIFICATION AND GENERAL POINTS

A. TECHNICAL SPECIFICATION:

Tender ID: 2019_HLL_31185_1 (Blood Bank Equipment - Package 1)

Blood Bank Equipment – Package 1

Item No. 4 Portable Blood Donor Couch

Tender Page & Para	Tender Specification	Amended as
Page 45; Para 2	Not more than 24" W X 46" L X 8" H	Not more than 24" W X 72" L X 8" H

Item No. 7 Water Bath

Tender Page & Para	Tender Specification	Amended as
Page 46; Para 1.1	Should be rectangular & volume within 20-25 liters	Should be rectangular & volume within 5-10 liters

S1. No	Items	Description	Quantity (nos.)
1	Weighing Scale with Height Measurement for Blood Donors	As per technical specification	2
2	Tube Stripper	As per technical specification	2
3	Blood & Component Balance	As per technical specification	1
4	Portable Blood Donor Couch	As per technical specification	4
5	Domestic Refrigerator	As per technical specification	3
6	Digital pH Meter	As per technical specification	2
7	Water Bath	As per technical specification	4
8	Multichannel Pipette	As per technical specification	1
9	Glucometer	As per technical specification	3
10	BP apparatus	As per technical specification	15
11	Oxygen cylinder and nasal mask	As per technical specification	2
12	Tourniquets	As per technical specification	20
13	X-Ray View box	As per technical specification	3
14	Hand lens	As per technical specification	1
15	Sample racks and trays	As per technical specification	20
16	Neubauer's chamber	As per technical specification	2
17	Naegotte's chamber	As per technical specification	2
18	Hemoglobinometer	As per technical specification	3
19	Transport bags	As per technical specification	20
20	Trolleys for transportation	As per technical specification	5
21	Transport boxes	As per technical specification	5

Added BOQ for <u>Blood Bank Equipment - Package 1</u>:

Annexure – 2 C (at Page no. 50)

<u>Existing</u>:

Ess	Essential consumables to be quoted (for bid ranking & fixing of year wise rates)			
S1. No	Name of the consumable	Quantity (approximate quantity over 10 years being factored for bid ranking)		
1	Slides	500000		
2	Tubes (Glass plain) (12*100 mm)	1000000		
3	Fistula needles 16" gauge	50000		
4	Pasteur pipettes with rubber teats	10000		
5	Beakers (40-100 ml)	5000		
6	Conical flasks (100ml)	2		
7	Conical flasks (5000 ml)	2		
8	Measuring cylinder (glass) (100- 1000 ml)	2		
9	Lab thermometers	100		

10	Micro tips (10-1000 µl)	1000000	
11	Micro tips (1 µl)	500000	
12	Alcohol swabs	500000	
13	Betadine swabs	500000	
	Important Note:		
	Any reagent, consumables & Essential consumables required for performing tests, calibration, quality control, cleaning the lab system, as per quantities detailed in column "A" of Annexure-2A, and items quoted in Annexure-2B & 2C if not quoted shall be provided free of cost by the bidder during the validity of the contract.		

Amended as:

Ess	ential consumables to be quoted (for b	id ranking & fixing of year wise rates)
Sl.No	Name of the consumable	Quantity (approximate quantity over 10 years being factored for bid ranking)
1	Slides	500000
2	Tubes (Glass plain) (12*100 mm)	1000000
3	Fistula needles 16" gauge	5000
4	Pasteur pipettes with rubber teats	10000
5	Beakers (100 ml)	500
6	Conical flasks (100ml)	200
7	Conical flasks (5000 ml)	50
8	Measuring cylinder (glass) (100 ml)	100
9	Measuring cylinder (glass) (500 ml)	100
10	Measuring cylinder (glass) (1000 ml)	100
11	Lab thermometers	100
12	Micro tips (10-1000 µl)	1000000
13	Micro tips (1 µl)	500000
14	Alcohol swabs	500000
15	Betadine swabs	500000
	Important Note: Any reagent, consumables & Essential tests, calibration, quality control, cleanid detailed in column "A" of Annexure-2A, not quoted shall be provided free of cost contract.	ing the lab system, as per quantities and items quoted in Annexure-2B & 2C if

Annexure – 2 C

Item no. 2 (Tender ID: 2019_HLL_31185_2)

Blood Bank Equipment – Package 2

I. Scope of Work

Tender Page & Para	Tender Specification	Amended as
Page 52; V.	Whenever there is breakdown the firm will carry out the repair within	Whenever there is breakdown, the firm will attend within 24 hours of receipt
Penalties Para 3	24 hours of receipt of such information (either by telephone or by	of such information (either by telephone or by any other means).
raia 3	any other means).	telephone of by any other means).

Item No. 2: Blood Donor Couch

Tender Page & Para	Tender Specification	Amended as
Page 53; Para 3	Should have automatic adjustment of arm-rest to adjust seat width and support for comfortable phlebotomy. Two adjustable arm-rest of length more than 50 cm and width of 15 cm to set the arm position to the donor's comfort.	Should have automatic/manual adjustment of arm-rest to adjust seat width and support for comfortable phlebotomy. Two adjustable arm-rest of length more than 50 cm and width of 15 cm to set the arm position to the donor's comfort.
Page 54; Para 13	Should have central locking with locking lever. Couch should be movable with wheels with locking facility.	Couch should be movable with wheels with locking facility.

Item No. 3: Blood Bank Refrigerator - 400 L

Tender Page & Para	Tender Specification	Amended as
Page 55; Para 8	Independent safety thermostat to avoid negative temperatures.	Safety thermostat to avoid negative temperatures.

Item No. 4: Platelet Agitator cum Incubator (Upright Model) (150-200 random donor platelet units)

Tender Page & Para	Tender Specification	Amended as
Page 55;	Capacity: 150-200 random donor	Capacity: 150-200 random donor
Para 4	platelet units	platelet units. Bidder may propose

		suitable alternative number of equipment to commensurate the said workload.
Page 55;	Must have at least 2 temperature	Must have at least 1-2 temperature
Para 5.c	sensors with digital temperature (LED)	sensors with digital temperature (LED)
	display with 0.1 °C graduation.	display with 0.1-0.5 °C graduation.

Item No. 5: Platelet Agitator cum Incubator (Upright Model) (48 random donor platelet units)

Tender Page & Para	Tender Specification	Amended as
Page 57; Para 5.c	Must have at least 2 temperature sensors with digital temperature (LED) display with 0.1 °C graduation.	Must have at least 1-2 temperature sensors with digital temperature (LED) display with 0.1-0.5 °C graduation.

Item No. 6: Deep Freezer (-40°C) 400 L

Tender Page & Para	Tender Specification	Amended as
Page 58; Para 19		It must have automated/manual defrost or a heating device on frame to avoid condensation.

Item No. 7: Deep Freezer (-80°C) 400 L

Tender Page & Para	Tender Specification	Amended as
Page 59;	Automatic closing of front door below a	
Para 7	opening angle of 90°	door below opening angle of 90°
Page 59;	System should have washable	System should have automatic
Para 13	condenser filter to maintain peak cooling efficiency. System should have automatic voltage boost compensations for low voltage conditions.	voltage boost compensations for low voltage conditions.

Item No. 8: Dielectric Tube sealer (Bench top)

Tender Page & Para	Tender Specification	Amended as
Page 60; Para 7	Should have an option of extended portable hand unit with coaxial cable of 1.5-2.0 meter.	Deleted

Tender Page & Para	Tender Specification	Amended as
Page 60; Para 11	Firm will have to supply compatible UPS with minimum half hr backup along with the equipment free of cost.	Deleted

Item No. 9: Sterile Connecting Device

Item No. 10: Aphaeresis Machine – Type 1

Tender Page & Para	Tender Specification	Amended as
Page 61; Para 20 a & b	 20. Additional accessories: a. Suitable online UPS for min 1 hr backup with maintenance free batteries b. All consumables required for installation & standardization should be supplied 	 20. Additional accessories: a. Deleted b. All consumables required for installation & standardization should be supplied

Item No. 11: Aphaeresis Machine – Type 2

Tender Page & Para	Tender Specification	Amended as
0	20. Additional accessories : a. Suitable online UPS for min 1 hr backup with maintenance free batteries	20. Additional accessories : a. Deleted

Item No. 14: Electronic Double Pan Component Balance

Tender Page & Para	Tender Specification	Amended as
Page 63; Para 13	Equipment should have USFDA or European CE certification.	Deleted

Item No. 15: Plasma thawing bath

Tender Page & Para	Tender Specification	Amended as
Page 64; Para 14	UPS of suitable rating should be supplied.	Deleted

Item No. 17:

Existing Name: Refrigerated Blood Bag Centrifuge - **12 bags**

Tender Page & Para	Tender Specification	Amended as
Page 65; Para 1	Design: Stable, sturdy all-steel design with stainless steel rotor chamber. Easy to clean / corrosion resistant paintings & provision of both drain and condense water collection.	Design: Stable, sturdy all-steel design with stainless steel rotor chamber. Easy to clean / corrosion resistant paintings.
Page 66; Para 4	Max. volume: Should be able to accommodate twelve 350 ml and 450 ml single, double, triple, quadruple, quintuple blood bags with SAGM bag and empty satellite bags with 'In Line filter system'.	Max. volume: Should be able to accommodate twelve or sixteen 350 ml and 450 ml single, double, triple, quadruple, quintuple blood bags with SAGM bag and empty satellite bags with 'In Line filter system'.
Page 66; Para 14	Warm air Outlet: From sides and rear of the Machine	Warm air Outlet: From sides and rear/front of the Machine
Page 66; Para 15.2	Eight (6) buckets (one bucket for 2 blood bags) for centrifuging 12 units of bags.	Six or Eight (6 or 8) buckets (one bucket for 2 blood bags) for centrifuging 12 or 16 units of bags.
Page 67; Para 16	Noise Level should be less than 60 dB	Noise Level should be less than 70 dB

Amended As: Refrigerated Blood Bag Centrifuge

Item No. 19: Table Top Centrifuge

Tender Page & Para	Tender Specification	Amended as
Page 67; Para 1	Must perform in wide temperature range (0-45°C) and in humidity of up to 90%.	Deleted

Item No. 21: Automated 5-part blood cell counter

Tender Page & Para	Tender Specification	Amended as
Page 69;	Should have an Auto Sampler with	Should have an Auto Sampler with
Para 5	capacity of at least 100 tubes at a given time. A single sample rack should be able to accommodate tubes of different sizes.	capacity of at least 20 tubes at a given time. A single sample rack should be able to accommodate tubes of different sizes.
Page 69; Para 6	Should have throughput of at least 100 samples per hour in CBC and CBC / Diff. mode & 70 samples per hour in Retics mode.	Should have throughput of at least 50 samples per hour in CBC and CBC / Diff. mode & 30 samples per hour in Retics mode.

Page 69; Para 8	Dual differential count for WBC	Deleted
Page 70; Para 25	UPS required to run the instrument should be provided free of cost by the firm.	Deleted

Item No. 22: Coagulation Analyzer

Tender Page & Para	Tender Specification	Amended as
Page 70; Para 13	Must have Battery backup for temperature recordings and alarms which is especially needed during power failure/fluctuations.	Deleted

Item No. 25: Reagent Refrigerator

Tender Page & Para	Tender Specification	Amended as
Page 72; Para 8	Independent safety thermostat to avoid negative temperatures.	Safety thermostat to avoid negative temperatures.

Item No. 27: Bacterial Detection System

Tender Page & Para	Tender Specification	Amended as
Page 74;	The culture bottles should be made of	The culture bottles should be made of
Para 13	1 0	unbreakable plastic / Glass with long neck and should be fully compatible with holders without the need for a special adapter.

Item No. 28: Blast Freezer

Tender Page & Para	Tender Specification	Amended as
Page 74,	Minimum capacity of 24 bags of 250	Minimum capacity of 24 bags of 250
Para 2	ml liters.	ml.

Added BOQ for Blood Bank Equipment – Package 2:

S1. No	Items	Description	Quantity (nos.)
1	Blood Collection Monitor	As per technical specification	8
2	Blood Donor Couch	As per technical specification	15

S1. No	Items	Description	Quantity (nos.)
3	Blood Bank Refrigerator - 400 L	As per technical specification	3
4	Platelet Agitator cum Incubator (Upright Model) (150-200 random donor platelet units)	As per technical specification	1
5	Platelet Agitator cum Incubator (Upright Model) (48 random donor platelet units)	As per technical specification	2
6	Deep Freezer (-40° C) 400 L	As per technical specification	3
7	Deep Freezer (-80° C) 400 L	As per technical specification	2
8	Dielectric Tube sealer (Bench top)	As per technical specification	2
9	Sterile Connecting Device	As per technical specification	2
10	Apheresis Machine - Type 1	As per technical specification	3
11	Apheresis Machine - Type 2	As per technical specification	4
12	Dielectric Tube Sealer - Handheld	As per technical specification	2
13	Manual Plasma Extractor	As per technical specification	10
14	Electronic Double Pan Component Balance	As per technical specification	2
15	Plasma thawing bath	As per technical specification	1
16	Haemostatic Analyzer	As per technical specification	1
17	Refrigerated Blood Bag Centrifuge	As per technical specification	2
18	Bio-Safety Cabinet	As per technical specification	3
19	Table Top Centrifuge	As per technical specification	5
20	Cooling Table	As per technical specification	3
21	Automated 5-part blood cell counter	As per technical specification	1
22	Coagulation Analyzer	As per technical specification	1
23	Wireless Data Loggers	As per technical specification	18
24	Lab Autoclave	As per technical specification	1
25	Reagent Refrigerator	As per technical specification	3
26	Aggregometer	As per technical specification	1
27	Bacterial Detection System	As per technical specification	1
28	Blast Freezer	As per technical specification	1
29	Electronic Analytical Balance	As per technical specification	1
30	Walk-in modular cold room	As per technical specification	1
31	Binocular Microscope	As per technical specification	1
32	Micro pipette set (Manual adjustable)	As per technical specification	4
33	Whole Blood Automation Device	As per technical specification	2
34	Blood Bank Software	As per technical specification	1
35	Turnkey as per Annexure-3 (with its amendments, if any)	As per Annexure-3 (with its amendments, if any)	Lumpsum

Annexure – 2 A (at Page no. 85):

Existing Table:

	REAGENT COST (for bid ranking & fixing of year wise rates)					
		Α		Reag	ent Pack	Details
	List of Parameters	No. of tests (approximate load over 10 years being factored for bid ranking)	Reagent Pack - make/ brand	Pack Catalog ue No.	No. of tests/ pack	Total No. of <u>Reagent packs</u> to be used for No. of tests in Column "A"
1	5-Part					
1	Hematology					
	CBC	7,30,000				
	CBC + Diff	7,30,000				
	CBC + Diff + Retic	3,65,000				

Amended as:

	REAGENT COST (for bid ranking & fixing of year wise rates)					
		Α		Reag	ent Pack	Details
	List of Parameters	No. of tests (approximate load over 10 years being factored for bid ranking)	Reagent Pack - make/ brand	Pack Catalog ue No.	No. of tests/ pack	Total No. of <u>Reagent packs</u> to be used for No. of tests in column"A"
1	5-Part Hematology					
	CBC	1,50,000				
	CBC + Diff	1,50,000				
	CBC + Diff + Retic	75,000				

Annexure - 2 C (at Page no. 86)

Existing Table:

Essent	Essential consumables to be quoted (for bid ranking & fixing of year wise rates)					
		Н				
		Quantity (approximate quantity over				
S1.No	Name of the consumable	10 years being factored for bid				
		ranking only)				
1	Triple Blood Bags 350 ml	100000				
2	Quadruple Blood Bags 450 ml	100000				
3	Top & bottom Blood Bags 450 ml with	200000				
3	Integral filters	200000				
4	Transfer bags 300 ml with Spike Ports	50000				

5	Platelet Filter	100000
6	Apheresis Kits platelets	50000
7	Apheresis Kits stem cell harvest / All other procedures	20000
8	RBC filter	100000
	Important Note: Any reagent, consumables & Essential tests, calibration, quality control, cleaning detailed in column "A" of Annexure-2A, a 2C if not quoted shall be provided free o	ng the lab system, as per quantities and items quoted in Annexure-2B &
	of the contract.	

Amended as:

Essent	Essential consumables to be quoted (for bid ranking & fixing of year wise rates)		
		Н	
S1.No	Name of the consumable	Quantity (approximate quantity over 10 years being factored for bid ranking only)	
1	Triple Blood Bags 350 ml	100000	
2	Quadruple Blood Bags 450 ml	100000	
3	Top & bottom Blood Bags 450ml with Integral filters	200000	
4	Transfer bags 300 ml with Spike Ports	50000	
5	Platelet Filter	10000	
6	Apheresis Kits platelets	50000	
7	Apheresis Kits stem cell harvest / All other procedures	20000	
8	RBC filter	10000	
	Important Note: Any reagent, consumables & Essential consumables required for performing tests, calibration, quality control, cleaning the lab system, as per quantities detailed in column "A" of Annexure-2A, and items quoted in Annexure-2B & 2C if not quoted shall be provided free of cost by the bidder during the validity of the contract.		

Annexure – 3

Turnkey works under Package-2

Tender Page & Para	Tender Specification	Amended as
Page 88 Para 8	Bidder has to install CCTV cameras covering all major areas with recording of 60 days.	Bidder has to install CCTV cameras covering all major areas with recording of 60 days. Required number of cameras for the blood bank: 30 Nos. Specs: Full HD 1020p, Colour and Night vision enabled.

		(Suggested make: Godrej/ Hikvision/ CP Plus)
Page 88	Bidder has to install portable PA	Bidder has to install portable PA system
Para 9	system (microphones and speakers)	(microphones - 3 Nos and speakers -
	in the following area	30 Nos) in the following area.
Page 88	Bidder has to plan following rooms	10. Bidder has to plan following rooms
Para 10	as per cGMP guidelines.	as per cGMP guidelines.
	1. Component Lab	1. Component Lab
	2. NAT Lab	2. Deleted
	3. TTI Lab (Chemiluminescence Lab)	3. TTI Lab (Chemiluminescence Lab)
Page 89	Bidder has to provide Poster Printer	Bidder has to provide Poster Printer with
Para 14	with suitable specification that can	suitable specification that can print
	print posters for Camp purposes.	posters for Camp purposes.
		(Suggested Makes: Epson/HP/Ricoh)
Page 89	Furniture - Hermen Miller, Godrej,	Furniture - Hermen Miller, Godrej,
Para 18.v	Featherlite, Wipro	Featherlite, Wipro, Geeken, Durian

Technical Specification of Consumable items

II. Triple Blood Bags (350 ml)

Tender Page & Para	Tender Specification	Amended as
Page 100;	The expiry date should be at least 2	The expiry date should be at least 1
Para 9.e	years from the date of supply of	year from the date of supply of blood
	blood bags to the institute	bags to the institute.
Page 100;	12. Automated component	Deleted
Para 12 a	extractor	
	a. To be provided by the manufacturer along with all the required documentations	
Page 101;	13. Sterile connecting device with	Deleted
Para 13 a	consumables	
	a. To be provided by the	
	manufacturer to use filters in a	
	closed system	

IV .Quadruple Blood Bags 450 ml

Tender Page & Para	Tender Specification	Amended as
Page 101;	The expiry date should be at least 2	The expiry date should be at least 1
Para 9 e	years from the date of supply of	year from the date of supply of blood
	blood bags to the institute	bags to the institute.
Page 101;	12. Automated component	Deleted
Para 12 a	extractor	
	a. To be provided by the	
	manufacturer along with all the	
	required documentations	

Page 101;	13. Sterile connecting device with	Deleted
Para 13 a	consumables a. To be provided by the	
	manufacturer to use filters in a closed system	

V. Top & bottom Blood Bags 450 ml with Integral filters

Tender Page & Para	Tender Specification	Amended as
Page 102;	The expiry date should be at least 2	The expiry date should be at least 1
Para 9 e	years from the date of supply of	year from the date of supply of blood
	blood bags to the institute	bags to the institute.
Page 103;	12. Inline filter for RBC	12. Inline filter for RBC
Para 12. d	d. Should have 500-600 ml capacity	d. Should have > 400 ml capacity
	transfer bag attached.	transfer bag attached.
Page 103;	13. Automated component	13. Automated component extractor (2
Para 13 a	extractor	Nos)
	a. To be provided by the	a. To be provided by the manufacturer
	manufacturer along with all the	along with all the required
	required documentations	documentations.

VI. Specification for Leukocyte Filters

Tender Page & Para	Tender Specification	Amended as
Page 103; Para a. 5	Should have 500-600 ml capacity transfer bag attached	Should have > 400 ml capacity transfer bag attached.
Page 103; Para a. 6	Sterile connecting device with the cost of consumables/disposables should be provided by the firm to use filters in a closed system. One for each filter.	One wafer for sterile connecting device for each filter must be supplied.
Page 103; Para b.10	Sterile and should have minimum 24 months of shelf life	Sterile and should have minimum 12 months of shelf life.
Page 103; Para b.12	Sterile connecting device including the cost of consumables should be provided by the firm. 4-5 per filter to be provided by the firm.	5 wafers for sterile connection per filter to be provided by the firm.

Item no. 3 (Tender ID: 2019_HLL_31185_3)

Molecular Immuno-Haematology Lab Equipment

(on Turnkey basis)

Tender Page & Para	Tender Specification	Amended as
Page 105; Para g) (i)	(i) Off-site training: The firm must provide such training for a period of 2 weeks (including travel, local logistics and accommodation etc.) for a total of 6 persons (2 persons/ year). Additionally, the Dept. reserves the right to increase or decrease the number of persons who will be sent for training.	(i) Off-site training (Need based - Optional) : The firm must provide such training for a period of 2 weeks (including travel, local logistics and accommodation etc.) for a total of 6 persons (2 persons/ year). Additionally, the Dept. reserves the right to increase or decrease the number of persons who will be sent for training.

2. Fully Automated Nucleic Acid Extraction System with compatible Automated Liquid Handler

Tender Page & Para	Tender Specification	Amended as
Page 106; Para 3	The system should realize cost effectiveness through automated dispensing of buffers into standard plastic devices instead of using expensive prefilled cartridges.	The system should realize cost effectiveness through automated dispensing of buffers into standard plastic devices or expensive prefilled cartridges.
Page 106; Para 6	The system should capable to do the sample volumes $10 \ \mu l - 10 \ m l$ and 1-16 samples or better in a batch.	The system should capable to process 1- 16 samples or better in a batch
Page 106; Para 8	System should be provided with a compatible automated, bench-top liquid handling platform offering complete enclosure, pipetting volume (1-1000 µl), HEPA filter, UV light, heater, shaker etc. (Make: Hamilton, Beckman Coulter, Promega, PE or equivalent) for smooth integration and workflow automation.	System should be provided with a compatible automated/semi-automated , bench-top liquid handling platform offering complete enclosure, pipetting volume (up to 1000 µl or better) , HEPA filter, UV light, heater, shaker etc. for smooth integration and workflow automation.

3. Real Time PCR (1 no)

Tender Page & Para	Tender Specification	Amended as
Para 1		Dye compatibility - FAM, SYBR Green, VIC, JOE, HEX, TET, TAMRA, ROX, Texas Red, Cy5.

Item no. 4 (Tender ID: 2019_HLL_31185_4)

Tender Page & Para	Tender Specification	Amended as
Page 115; Para 4	The platform should be capable to test samples individually.	The platform should test samples (Blood unit) individually.
Page 115; Para 5	System must perform automated nucleic acid target capture or nucleic acid extraction, amplification, and detection all in a single tube to minimize sample handling and any chances of contamination.	System must perform automated nucleic acid target capture or nucleic acid extraction, amplification, and detection all from a single tube to minimize sample handling and any chances of contamination.
Page 115; Para 7	Test procedure must be able to target & amplify two separate regions of HIV-1 genome.	Test procedure must be able to target & amplify one-two separate regions of HIV-1 genome.
Page 115; Para 20	The sensitivity of assay at 95% LOD must be at least: (i) HIV: 50 IU/ml or better (ii) HCV: 8 IU/ml or better (iii) HBV: 5 IU/ml or better	The sensitivity of assay at 95% LOD must be at least: (i) HIV: 60 IU/ml or better (ii) HCV: 8 IU/ml or better (iii) HBV: 5 IU/ml or better
Page 116; Para 21	The specificity of the tests must be 100%	The specificity of the tests must be > 99 %

Automatic Nucleic Acid Testing System

Item no. 5 (Tender ID: 2019_HLL_31185_5)

Fully Automated Random Access Chemiluminescence

Tender Page & Para	Tender Specification	Amended as
Page 117,	The Instrument should be	The Instrument should be bench top /
Para 1	floor/ bench top model with	floor model with castor wheels with
	castor wheels with locking	locking facility, Random Access

Tender Page & Para	Tender Specification	Amended as
	facility, Random Access Chemiluminescence based with facility of continuous loading of samples.	Chemiluminescence based with facility of continuous loading of samples.
Page 117, Para 5	The system should have liquid stable ready to use reagents including control, calibrator.	The system should have liquid, stable, ready to use/ lyophilised (only for HIV) reagents including control, calibrator.
Page 117, Para 11	The bidder should also quote separately the running cost of the machine (without any exclusion) and the cost of kits / consumables/ reagents for each quoted test for a period of 5 years.	The bidder should also quote separately the running cost of the machine (without any exclusion) and the cost of kits / consumables/ reagents for each quoted test for a period of 10 years .

Item no. 6 (Tender ID: 2019_HLL_31185_6)

Fully Automated Random Access Immuno-Haematology (IH) Platform

Tender Page & Para	Tender Specification	Amended as
Page 119; Para 1	It must be a complete automated walk away system. Must be capable of doing blood grouping, cross matching, antibody screening and/or platelet serology in a completely automated manner with latest model.	It must be a complete automated walk away system. Must be capable of doing blood grouping (forward and reverse), AHG cross matching, antibody screening, antibody identification, clinically significant antigen phenotyping (Rh, K), weak D testing and/ or platelet serology in a completely automated manner with latest model.
Page 119; Para 2	All necessary requirements for installation and proper functioning should be provided by company along with UPS.	All necessary requirements for installation and proper functioning should be provided by company along with UPS. The bidder should also quote separately the running cost of the machine (without any exclusion) and the cost of kits/consumables/reagents for each quoted test for a period of 10 years. This will be considered for bid ranking.
Page 119; Para 7	Should have through-put of 80 or more samples per hour or should be able to do 80 or more Blood Groupings and hundred or more cross matching in one hour.	Should have through-put of 40 or more samples per hour or should be able to do 40 or more Blood Groupings and hundred or more cross matching in one hour.

Tender Page & Para	Tender Specification	Amended as
Para 8	-	It must have provision for distinguishing red cell from plasma/serum.

Annexure – 2 A (at Page no. 120)

Existing Table:

	REAGENT COST (for bid ranking & fixing of year wise rates)				rates)	
		Α		Reagent Pack Details		
	List of Parameters	No. of tests (approximate load over 10 years being factored for bid ranking)	Reagent Pack - make/ brand	Pack Catalogue No.	No. of tests/ pack	Total No. of <u>Reagent packs</u> to be used for No. of tests in column "A"
1	Blood Grouping					
	Anti A	5,00,000				
	Anti B	5,00,000				
	Anti D (IgM)	5,00,000				
	Anti D (IgM+IgG)	5,00,000				
	Anti AB	5,00,000				
	Anti H	1,00,000				
	Anti A1 Lectin	1,00,000				
2	Blood Cross matching					
	AHG	15,00,000				
	Gel Cards	15,00,000				
3	Blood Antibody					
	Screening Screen Cells (3 cells)	2,00,000				
	ID Panels (11 Cells)	2,00,000				
	ID Panels (6 Cells)	2,00,000				
	CAT (K)	1,00,000				
	CAT (k/Celino)	50,000				
	CAT (Le ^a)	50,000				
	CAT (Le ^b)	50,000				
	CAT (Duffy a)	50,000				
	CAT (Duffy b)	50,000				
	CAT (Kidd a)	50,000				
	CAT (Kidd b)	50,000				
	CAT (M)	50,000				
	CAT (N)	50,000				
	CAT (S)	50,000				
	CAT (s)	50,000				

	50.000		
CAT (CW)	50,000		
CAT (P1)	50,000		
CAT (U)	50,000		
Antisera (K)	1,00,000		
Antisera (k/Celino)	50,000		
Antisera (Lea)	50,000		
Antisera (Leb)	50,000		
Antisera (Duffy a)	50,000		
Antisera (Duffy b)	50,000		
Antisera (Kidd a)	50,000		
Antisera (Kidd b)	50,000		
Antisera (M)	50,000		
Antisera (N)	50,000		
Antisera (S)	50,000		
Antisera (s)	50,000		
Antisera (CW)	50,000		
Antisera (P1)	50,000		
Antisera (U)	50,000		
Anti-E	2,00,000		
Anti-e	2,00,000		
Anti-C	2,00,000		
Anti-c	2,00,000		
CAT (NaCl Type)	3,00,000		
CAT (Extended			
DCT)	1,00,000		
Enzymes Papain	1,00,000		
LISS	15,00,000		
Bromelin	5,00,000		
Bovine serum	50,000		
albumin (22%)	50,000		
Glycine	50,000		
EDTA	50,000		
Sulphuric acid	50,000		
HC1	50,000		
Sodium Dihydrogen	50,000		
phosphate	30,000		
DiSodium hydrogen	50,000		
diphosphate	-		
PEG	50,000		
Xylene	50,000		
Glacial acetic acid	50,000		
Sodium chloride	50,000		
Potassium chloride	50,000		
Potassium			
dihydrogen	50,000		
phosphate			
Buffer capsules (pH	50,000		
variants)	-		
pH strips	50,000		

Enzymes Ficin	50,000			
DTT	50,000	-		
Eosin	5,00,000			
2-mercaptoethanol	50,000			
Formaldehyde	50,000			
Ammonia	50,000			
Glycerol	50,000			
Kit for cold autoantibody removal	50,000			
Kit for warm autoantibody removal	50,000			
Kit for Red Cell Cryo Preservation (IH)	5,000			

Amended as:

	REAGENT (COST (for bid ran	king & fi	ixing of yea	r wise	rates)
		Α		Reagent Pack Details		
	List of Parameters	No. of tests (approximate load over 10 years being factored for bid ranking)	Reagen t Pack - make/ brand	Pack Catalogue No.	No. of tests/ pack	Total No. of <u>Reagent packs</u> to be used for No. of tests in column"A"
1	Consumables for Automated IH Platform					
	Blood Grouping (forward and reverse)	500,000				
	AHG cross matching	250,000				
	Antibody Screening	100,000				
	Antibody Identification	100,000				
	Clinically significant antigen phenotyping (Rh, K)	100,000				
	Weak D testing	50,000				
2	Blood Grouping					
	Anti A	5,00,000				

	Anti B	5,00,000		
	Anti D (IgM)	5,00,000		
	Anti D (IgM)	5,00,000		
	Anti AB	· · · · ·		
	Anti H	5,00,000		
		1,00,000		
	Anti A1 Lectin	1,00,000		
3	Blood Cross			
	matching AHG Gel cards			
	(IgG + C3d)	15,00,000		
	Gel Cards (IgG			
	only)	15,00,000		
	Blood Antibody			
4	Screening			
	Screen Cells (3			
	cells)	2,00,000		
	ID Panels (11	0.00.00		
	Cells)	2,00,000		
	ID Panels (6 Cells)	2,00,000		
	CAT (K)	1,00,000		
	CAT (k/Celino)	50,000		
	CAT (Le ^a)	50,000		
	CAT (Le ^b)	50,000		
	CAT (Duffy a)	50,000		
	CAT (Duffy b)	50,000		
	CAT (Kidd a)	50,000		
	CAT (Kidd b)	50,000		
	CAT (M)	50,000		
	CAT (N)	50,000		
	CAT (S)	50,000		
	CAT (s)	50,000		
	CAT (C ^w)	50,000		
	CAT (P1)	50,000		
	Deleted	Deleted		
	Antisera (K)	1,00,000		
	Antisera			
	(k/Celino)	50,000		
	Antisera (Lea)	50,000		
	Antisera (Leb)	50,000		
	Antisera (Duffy a)	50,000		
	Antisera (Duffy b)	50,000		
	Antisera (Kidd a)	50,000		
	Antisera (Kidd b)	50,000		
	Antisera (M)	50,000		
	Antisera (N)	50,000		
	Antisera (S)	50,000		
	Antisera (s)	50,000		
	Antisera (CW)	50,000		
	Antisera (P1)	50,000		

Delet	ted	Deleted		
Anti-	E	2,00,000		
Anti-		2,00,000		
Anti-		2,00,000		
Anti-		2,00,000		
	(NaCl Type)	3,00,000		
	(Extended			
DCT)		1,00,000		
/	mes Papain	1,00,000		
LISS	*	15,00,000		
Brom	nelin	5,00,000		
	ne serum			
	min (22%)	50,000		
Glyci		50,000		
EDTA		50,000		
	huric acid	50,000		
HC1		50,000		
Sodiu	ım)		
	drogen	50,000		
	phate	,		
DiSo				
hydro	ogen	50,000		
	osphate	,		
PEG	1	50,000		
Xyler	ne	50,000		
	al acetic acid	50,000		
Sodiı	ım chloride	50,000		
Potas	ssium	•		
chlor	ide	50,000		
Potas	ssium			
dihyc	lrogen	50,000		
phos	phate			
Buffe	er capsules	50,000		
(pH v	variants)	30,000		
pH st	trips	50,000		
Enzy	mes Ficin	50,000		
DTT		50,000		
Eosir	ı	5,00,000		
2-		50,000		
	aptoethanol	-		
	aldehyde	50,000		
Amm		50,000		
Glyce		50,000		
Kit fo	or cold			
	antibody	50,000		
remo				
	or warm			
	antibody	50,000		
remo				
Delet	ted	Deleted		

Item no. 7 (Tender ID: 2019_HLL_31185_7)

Biological X-Ray based Blood Irradiator

Tender Page & Para	Tender Specification	Amended as
Page 123, Para 9	The system MUST be self-contained with respect to the irradiation chamber and electronics, and MUST NOT exceed a physical foot print of 1.5 x 1.5 m, height 3 m and weight 1,200 kg.	The system MUST be self-contained with respect to the irradiation chamber and electronics, and MUST NOT exceed a physical foot print of 1.5 x 1.5 m, height 3 m and weight 1,500 kg.
Page 123, Para 15	The system MUST be accompanied by a calibrated dosimeter, for dose and dose rate measurements within the irradiation chamber. The firm will also have to supply the radiation tags along with any other quality control requirements. The rates for the same must be quoted in the tender.	The system MUST be accompanied by a calibrated dosimeter, for dose and dose rate measurements within the irradiation chamber. The firm will also have to supply 1000 radiation tags along with any other quality control requirements including dose mapping in every 6 months till the life cycle of the equipment. The rates for the same must be quoted in the tender for 200,000 radiation tags for fixing of rates for 10 years.

Item no. 8 (Tender ID: 2019_HLL_31185_8)

Mobile Blood Donation Van

Tender Page & Para	Tender Specification	Amended as
Page 125; Para 2	The net interior dimensions of MBDV body (blood collection area excluding the driver cabin) shall be min. 2000 mm. in width, 2000 mm. in height and min. 9500 mm. in length.	The net interior dimensions of MBDV body (blood collection area excluding the driver cabin) shall be min. 2000 mm. in width, 2000 mm. in height and min. 9500 mm. in length. The firm must provide expandable Donation compartment by at least 500 mm or more (width wise), of length 6-8 ft by hydraulics or electric pressure jack system during parked position which can safely retracted back to the normal width of the MBDV while in motion.

Tender Page & Para	Tender Specification	Amended as
Page 125; Para 3. vi	The vehicle should have >150 HP,4/6-cylinder diesel/ electric engine (Volvo Eicher/ Bharat Benz/ Tata/ Ashok Leyland/ Equivalent), 6 speed manual transmission, power assisted steering, Fuel tank of capacity > 300 litres, Leaf/ Air front suspensions, Rear Air suspensions, all CAM/ disc brakes and the driver cabin should be air conditioned with OEM fitted engine driven air conditioning system. The vehicle should comply with BS IV emission standards or above.	The vehicle should have >150 HP,4/6- cylinder diesel/ electric engine (Volvo Eicher/ Bharat Benz/ Tata/ Ashok Leyland/ Equivalent), 6 speed manual transmission, power assisted steering, Fuel tank of capacity > 300 litres, Leaf/ Air front suspensions, Rear Air suspensions, all CAM/ disc brakes and the driver cabin should be air conditioned with OEM fitted engine driven air conditioning system. The vehicle should comply with BS IV or above emission standard (s) .
Page 127; Para 12. vi.	A vertical storage rack (Stainless steel) with 3-4 racks must be placed securely at the back of the bus for storing cello boxes of 22-25 litres (Weight bearing capacity of approximately 50 Kgs.). Suitable fastening belts or a suitable system must be in place to keep the boxes securely while the vehicle is in transit.	A vertical storage rack (Stainless steel, Mild steel, Aluminium Alloy or equivalent) with 3-4 racks must be placed securely at the back of the bus for storing cello boxes of 22-25 litres (Weight bearing capacity of approximately 50 Kg). Suitable fastening belts or a suitable system must be in place to keep the boxes securely while the vehicle is in transit.
Page 130; Para 23	Heading: 23. Equipment Specifications	23. Equipment Specifications (All mentioned equipment must be from an ISO-13485 certified manufacturer).
Page 130 Para 23 : 2. a	Item 2. Blood Collection Monitor Para 2.a : Volume Setting: Pre-selection of volume to be collected. Tarring of bag volume before collection. Tarring range: 0 to 600 gm. Easy provision to change preset volume.	Volume Setting: Pre-selection of volume to be collected. Tarring of bag volume before collection. Tarring range: 0 to 600 gm (50-500ml). Easy provision to change preset volume.
Page 130 Para 23 : 2.g	Item 2. Blood Collection Monitor Para 2.g : Should operate on mains as well as rechargeable battery. On battery it should operate for a min. of 8 hours or minimum 60 continuous blood collections.	Should operate on mains as well as battery . On battery it should operate for a min. of 8 hours or minimum 60 continuous blood collections.

SECTION – VIII

QUALIFICATION CRITERIA

A. APPLICABLE FOR ITEM AT SL. NO. 1 (i.e. Blood Bank Equipment – Package 1; Tender ID- 2019_HLL_31185_1).

Existing:

2. Minimum Work of Similar Nature:

**The order(s) individually or in combination should include at least 10 (ten) similar line items of the package meeting major parameters of technical specifications.

Read As:

2. Minimum Work of Similar Nature:

The order(s) individually or in combination should include **at least 05 (five) similar line items of the package meeting major parameters of technical specifications.

D. APPLICABLE FOR ITEM AT SL. NO. 8, i.e. for 'Mobile Blood Donation Van':

Existing:

1. The bidders must be a manufacturer. In case the foreign manufacturer does not quote directly, they may authorise an Indian agent as per proforma of "Manufacturer Authorization Form" as given in the bidding document at **Section XIII-A** to quote and enter into a contractual obligation.

Read As:

- 1. The bidders must be a manufacturer. In case the manufacturer does not quote directly, they may authorise an Indian agent as per proforma of "Manufacturer Authorization Form" as given in the bidding document at **Section XIII-B** to quote and enter into a contractual obligation. The manufacturer Authorization for agent is applicable only for items mentioned below:
 - i. Base Vehicle
 - ii. Blood Donor Couch
 - iii. Blood Collection Monitor

Important Note:

- i) Technical Compliance Sheet 'Version 1.0' for all the tenders under this NIB are being uploaded on CPPP. The same need to be downloaded for submission.
- ii) Price Bid 'Version 1.1' for tender ID-2019_HLL_31185_1, 2019_HLL_31185_2 & 2019_HLL_31185_6 under this NIB are being uploaded under Corrigendum on CPPP. This will supersede the previous version i.e. 'Ver1.0' and the same need to be downloaded for necessary submission.

All other contents of the Bidding Document including terms & conditions remain unaltered.