PRE-BID CLARIFICATIONS / AMENDMENTS IN RESPONSE TO THE QUERIES RAISED BY PROSPECTIVE BIDDERS IN THE PRE-BID MEETING HELD ON DT.28.01.2019 11.00 A.M. AND SUBSEQUENTLY A TECHNICAL COMMITTEE MEETING ON DT.12.02.2019 11.00 A.M. IN THE CONFERENCE HALL, OSMCL FOR PROVISION FOR SUPPLY, INSTALLATION & COMMISSIONING OF EQUIPMENTS INCLUDING ASSOCIATED TURNKEY WORKS FOR SETTING UP OF MOLECULAR BIOLOGY LABORATORY AT DEPARTMENT OF BIOCHEMISTRY IN SCBMCH-CUTTACK..
Bid Ref. No.: OSMCL/2018-19/EQP-MBLB/22

Brief note on the Tender:

- Date & Time of release of bid -19.01.2019, 3 PM.
- Date & time of Pre-bid meeting - 28.01.2019, 11 AM.
- Date & time of Online bid submission Start Date - 01.02.2019, 3 PM.
- Last Date & Time of Online bid submission - 16.02.2019, 5 PM.
- Date & time of online Technical bid opening - 19.02.2019, 11 AM.
- Date of opening of Price Bid -To be informed to the technically qualified bidders.

The tender was published in:

1. The New Indian Express
2. The Indian Express
3. The Business Standard
4. The Dharitri
5. The Sambad
6. OSMCL Website

- Total No. of prospective bidders/ representatives present in the pre-bid meeting are: **10(Ten)** and **3nos.** of query was received through mail/letter.

- The queries raised by the prospective bidders on the above mentioned tender reference were thread barely discussed on dt.12/02/2019 and the following recommendations were made:

Sl. No.	Item Name	Queries raised by the prospective bidders	Original Technical Specifications	Clarifications /Amendments of specification in response to the queries
1	Automated DNA RNA Extraction System	Bench top instrument with software based control either built in control unit or through a connected PC.	**Section-VII (Point No-1(Pg. No-56)** Configuration – Bench top instrument with built in control unit and Touch screen.	No Change
2	Automated DNA RNA Extraction System	Mixed sample batching ranging volumes 100ul to 500ul	**Section-VII (Point No-3(Pg. No-56)** Mixed sample batching ranging volumes 200ul to 4000ul	No Change
3	Automated DNA RNA Extraction System	Elution Volume 50 to 100uL	**Section-VII (Point No-4(Pg. No-56)** Elution Volume 50 to 200uL	No Change
4	Automated DNA RNA Extraction System	Run time Dependent on protocol and sample throughput. 97 minutes for 24 samples, 90 minutes for 8 samples Run time Dependent on protocol. 70-110 minutes for 24 samples, <30-40 minutes for 8 samples – fast protocols.	**Section-VII (Point No-5(Pg. No-56)** Run time Dependent on protocol.70 minutes for 24 samples,<30 minutes for 8 samples—fast protocols	No Change
5	Automated DNA RNA Extraction System	Regulatory Label for in vitro diagnostic Use. CE / USFDA / IVD certified. Regulatory Label for in vitro diagnostic Use. CE-IVD / USFDA certified.	**Section-VII (Point No-7(Pg. No-56)** Regulatory Label for in vitro diagnostic Use. CE, USFDA and IVD certified.	No Change
6	Automated DNA RNA Extraction System	This point has to be removed	**Section-VII (Point No-8(Pg. No-56)** Compliant with IVD directive 98/79/EC	No Change
7	Automated DNA RNA Extraction System	Isolation principle Magnetic particle technology Isolation principle Magnetic Bead based particle technology	**Section-VII (Point No-9(Pg. No-56)** Isolation principle Magnetic glass particle technology	No Change

8	Automated DNA RNA Extraction System	On-board barcode scanning for inventory & sample tracking, Primary sample tube handling, Post elution handling. Features One transfer head with 8-12 pipetting channels/Magnet Heads, Two-Three Parallel processing stations, Cooling Station for elutes, On-board barcode scanning for inventory & sample tracking, UV light, Primary sample tube handling, Post elution handling.	**Section-VII (Point No-9(Pg. No-56)** Features One transfer head with 8 pipetting channels, Three parallel processing stations, Cooling station for elutes, On-board barcode scanning for inventory & sample tracking, UV light, Primary sample tube handling, Post elution handling.	No Change
9	DNA Extraction and RT Quantitative Micro PCR Machine	May be changed to DNA Extraction and RT Quantitative Micro PCR Machine with CE-IVD/USFDA certification	**Section-VII (Pg. No-58)** DNA Extraction and RT Quantitative Micro PCR Machine with CE, USFDA & IVD certification	No Change
10	DNA Extraction and RT Quantitative Micro PCR Machine (A) The Real time PCR Analyzer	Specification for **(A) The Real time PCR Analyzer may be changed to,** 1. The system should be automated integrated 96 well peltier based diagnostic instrument with the flexibility of software designed for both IVD use and test development with 6 independently controlled zones. 2. Sample tracking sample information such as name, accession number, and sample type. Captures critical sample data, with parameters customizable to fit the laboratory's needs. Enables laboratories to more easily track samples associated with a particular plate, set of reagents, run date and time, and data files. 3. System should support minimum recommended reaction volume of 96-well, 0.2 ml block: 10–100 µl 4. The system should support the temperature range from 40C to	**Section-VII (Pg. No-59)** DNA Extraction and RT Quantitative Micro PCR Machine with CE, USFDA & IVD certification **(A) The Real time PCR Analyzer** 1. Principal:- Real Time Quantitative PCR 2. Optics: - Fluorescence, 470-670 nm wave length. 3. Speed:- 40-45 cycles per 40 minutes 4. Throughput: - Single Channel-10-12 Assay per day, Double Channel-20-24 Assay per day, Four Channel-40-45 Assay per day. 5. Interface: - USB/Wifi/Bluetooth enabled. 6. Calibration:- Auto Calibration 7. Memory: - More than 10 thousand	No Change

		99.9°C/100°C with 6 VeriFlex™ zones and run time less than 30 minutes with fast chemistries. 5. System should come with fast and standard Chemistries with 1 copy Sensitivity; detect differences as small as 1.5-fold in target quantities in singleplex 6. The System should utilize a bright white LED / Halogen lamp source with a > 5 years lifespan and detection by CMOS/CCD with whole plate imaging and detection. 7. The system should be factory calibrated for the following FAM™, SYBR™, VIC™, ABY™, NED™, TAMRA™, JUN™, ROX™, Mustang Purple™, and Cy®5 dyes. 8. Enhanced security you need—including auditing and e-signature functionalities that enable you to comply with regulations 9. System should detect differences in target quantity as small as 1 copy; detect differences as small as 1.5-fold in target quantities in singleplex. 10. Software to guide you every step of the way—allows you to set up a run, lay out assays, control the instrument, and conduct plate analysis within a single, easy-to-use software interface 11. The normalization of reaction due to non-PCR related fluctuations should be possible by using passive reference dye. 12. System should CE-IVD compliant along with the tools like security access, auditing and e-signatures	test result. 8. Operating Environment: - Room Temperature 20-40 degree centigrade and relative humidity of 10-90%. 9. Display Screen:- Display with minimum of 5 inches touch screen. 10. Printer:- External Printer 11. Power:- Rechargeable Battery 12. Weight:- Less than 10 KG 13. Size:- Portable -Easy to Carry.	
11	DNA Extraction and RT	Specification for **(B) Nucleic Acid Extraction Device may be changed to,** 1. Automated magnetic bead purification	**<u>Section-VII (Pg. No-59)</u>** DNA Extraction and RT Quantitative Micro PCR Machine with CE, USFDA &	No Change

	Quantitative Micro PCR Machine (B) Nucleic Acid Extraction Device	system for DNA, RNA , protein etc 2.It should have Barcode reader to help improve traceability 3. It should have Built-in UV lamp designed for effective decontamination 4. It should have Customizable workflow for different sample types, reagents and protocols 5. It should have Ready-made, easy to start protocols for different types of applications 6. It should isolate high quality, inhibitor-free samples 7. It should be able to process large volume up to 5 ml 8. It should process up to 24 samples per load 9. DNA and RNA isolation from various starting materials, proteomic applications, cell isolation 10. Sample per run Up to 12 with 12-pin magnet head 11. Up to 6 with 6-pin magnet head 12. Max sample load -24 13. 24 deep well plate 14. Volume range- 30-1000 µl 15. UV exposure time Up to 16 hours 16. Internal memory Space for ca. 200 protocols	IVD certification **(B) Nucleic Acid Extraction Device** 1. Principal:- Matrix Based Extraction System 2. Operation:- Fully Automatic 3. Display Screen:- LCD Screen 4. Power:- Rechargeable Battery 5. Weight:- Less than 5 Kg 6. Size:- Portable-Easy to Carry 7. Software:- Proprietary firmware 8. Operating Environment: - Room Temperature.	
12	Automated DNA Sequencer	Should be a fully automated Multi-capillary, fluorescence-based genetic analysis system	**<u>Section-VII (Point No-1(Pg. No-60)</u>** Fully automated capillary, fluorescence-based DNA Sequencer	No Change
13	Automated DNA Sequencer	Instead of 96 capillaries, consider 8-16-24 capillaries. 24 capillaries operating in parallel	**<u>Section-VII (Point No-3(Pg. No-60)</u>** Number of capillaries :96 capillaries operating in parallel to meet throughput	**<u>Amended</u>** Number of capillaries : 8-16-24 capillaries operating in parallel to meet throughput

14	Automated DNA Sequencer	Employ uncoated capillary arrays that use bare silica capillaries with a useful life that exceeds 160 runs.	**Section-VII (Point No-3(Pg. No-60)** Number of capillaries : Employ capillary arrays that use bare silica capillaries with a useful life that exceeds 160 runs	No Change
15	Automated DNA Sequencer	Excitation source: The system to utilize a single line 505 nm solid state long life laser utilizing a standard power supply.	**Section-VII (Point No-4(Pg. No-60)** Excitation source: Single line 505 nm solid state long life laser utilizing a standard power supply and without heat removal ducting	No Change
16	Automated DNA Sequencer	The system must be able to detect and analyze 6 fluorescent dyes simultaneously.	**Section-VII (Point No-5(Pg. No-60)** Dye detection: System must be able to detect and analyze up to 6 fluorescent dyes simultaneously for DNA fragment analysis	No Change
17	Automated DNA Sequencer	System should be quoted with 96 well plate option.	**Section-VII (Point No-9(Pg. No-60)** System should be quoted with both 96 and 384 well plate option.	**Amended** System should be quoted with 96 well plate option.
18	Automated DNA Sequencer	Sequencing throughput > 80-100 samples/day having> 500 bp read length with QV20 Sequencing throughput > 275 samples/day having> 500 bp read length with QV20	**Section-VII (Point No-10(Pg. No-60)** Sequencing throughput > 830 samples/day having>500bp read length with QV20	**Amended** Sequencing throughput > 80-100 samples/day having>500bp read length with QV20
19	Automated DNA	The vendor must supply softwares and application-specific kits that are optimized for the instrument in the area of denovo, comparative sequencing, Long Read Sequencing and Re-sequencing, fragment analysis applications like Microsatellite, SSCP,	**Section-VII (Point No-13(Pg. No-61)** Software: The vendor must supply softwares that are optimized for the instrument in the area of denovo, Re-sequencing, Long Read Sequencing, and comparative sequencing. Fragment analysis applications like SSR, ISSR,	No Change

	Sequencer	HMA (Heteroduplex Mobility Assay), Linkage analysis, LOH (Loss of Heterozygosity), AFLP, SSR, SSCP, SNP validation and screening.	AFLP Plant & Microbial Finger printing, Microsatellite Long Sizing, SSCP, SNP Validation and screening, Linkage analysis.	
20	Automated DNA Sequencer	System software allowing real-time data quality evaluation providing immediate access to base-called or size called data to make decision about the quality of data as it is generated.	**Section-VII (Point No-14(Pg. No-61)** Real time analysis: System software should allow real-time date quality evaluation providing immediate access to base-called or size called date to make decision about the quality of data as it is generated	**Clarified** Real time analysis: System software allowing real-time data quality evaluation providing immediate access to base-called or size called data to make decision about the quality of data as it is generated.
21	Automated DNA Sequencer	Manufacturer should have application training in facility in India and at least five or more installations of the same equipment in eastern India.	**Section-VII(Point No-16 & 17 (Pg. No-61)** The vendor should provide Application Training on the operation of the instrument, chemistry options and software in there regional lab. Vendor should have at least 25 installations (includes all the available models) in India.	No Change
22	Automated DNA Sequencer	Online 3 kVA UPS with one hour back up.	**Section-VII(Point No-18 (Pg. No-61)** Suitable UPS for running the system.	**Clarified** Suitable UPS with one hour back up for running the system.
23	Bio spectrophotometer Kinetics	Change the item name as Nano Volume Spectrophotometer with Cuvette. Kindly amend the specification for Nano Volume Spectrophotometer. The Item name has to be changed to Spectrophotometer with Cuvette & µdrop	**Section-VII (Pg. No-62)** Bio spectrophotometer Kinetics	**Amended** The item "Bio spectrophotometer Kinetics" shall be read as "Nano Volume Spectrophotometer with Cuvette".

24	Spin win Micro centrifuge Machine	Change the item name as Refrigerated Micro Centrifuge. Kindly amend the specifications with following changes. 1. Centrifuge should have refrigeration system. 2. RCF of 2ml tube rotor should be above 20000 g force. 3. Should include microplate rotor for 96 well PCR plate.	**Section-VII (Pg. No-64)** Spin win Micro centrifuge Machine	**Amended** The item "Spin win Micro centrifuge Machine" shall be read as "Refrigerated Micro Centrifuge" with following additional points, 1. Centrifuge should have refrigeration system. 2. RCF of 2ml tube rotor should be above 20000 g force. 3. Should include microplate rotor for 96 well PCR plate.
25	Automated ELISA system	Remove USFDA in heading. Point 2 in Elisa Reader component: Absorbance mode: Filter based reader with necessary filter options,	**Section-VII (Pg. No-66)** Automated ELISA system with CE and USFDA certification. **Elisa Reader component:** Absorbance mode: wavelength range 230 nm to 700nm.	**Amended** The item "Automated ELISA system with CE and USFDA certification" shall be read as **"Automated ELISA system with CE certification.** Elisa Reader component: Absorbance mode: Filter based reader with necessary filter options.
26	Thermo cycler	Remove the word "T100"from point no.5 Point no.5 has to be changed to **5. Small space-saving footprint** It is a compact thermal cycler that fits in any laboratory The Thermal Cycler should have classified as a USFDA Class I Medical Device. It conforms to IVDD (98/79/EC) requirements and should be IVD–labelled.	**Section-VII (Pg. No-70)** **5. Small space-saving footprint** — the T100 is a compact thermal cycler that fits in any laboratory	**Amended** **5. Small space-saving footprint** —should be a compact thermal cycler that fits in any laboratory

27	All the items of tender	We need clarity whether the sample load of 2500 nos. per month is for each parameter of cumulative total of various parameters. If 2500 samples is the cumulative number of sample load, we would like to know the samples load for individual parameter per month.	**Section-IV (Point No-3 (Pg. No-14)** The Cost of all individual reagents/consumables for all the equipments as mentioned above required for processing of 2500 nos. Of sample per month for various parameters such as Cancer marker, HPV, Malaria (PF/PV), MRSA and other Non communicable disease etc. Must be quoted in the separate PDF format (Format-A) of the financial bid (attached as a PDF file) in the e-tender portal, which shall be taken into account for price evaluation and shall be approved & valid for 5 years from date of approval.	**Clarified** The Cost of all individual reagents/consumables for all the equipments as mentioned above required for processing of **2000 Nos. of HPV** per month,**200 Nos. of Malaria per month, 50 Nos. of MRSA per month**, **Cancer marker such as 50 Nos. of EGFR per month**, **100 Nos. of KRAS per month** and **100 Nos. of BRAS per month** must be quoted in the separate PDF format (Format-A) of the financial bid (attached as a PDF file) in the e-tender portal, which shall be taken into account for price evaluation and shall be approved & valid for 5 years from date of approval.
28	All the items of tender	Since, all the instruments are quoted with warranty and CMC, spare parts list and price break up is not necessary. All spare parts will be covered under warranty and CMC.	**Section-IV (Point No-4 (Pg. No-14)** In addition, the bidders have to quote the prices of the cost of spare parts of each individual item included in the package in the separate price schedule format attached as a PDF file(Format-C)in the e-tender portal. However, this shall not be taken into account for evaluation.	No Change

29	All the items of tender	Considering the technological advancement over the period and wear and tear of electronic and mechanical components with usage, we recommend a shelf life of 7 years for any instrument. In this regards, We request you to consider 3 years warranty and 4 years CMC period to be quoted. 3 years CMC after warranty for the Package as a whole as mentioned in schedule of requirement 4 years CMC should quoted separately	**Section-V (Point No-5.1.2(Pg. No-15)** **Comprehensive warranty period** 5 years from the date of installation for the package as a whole as mentioned in schedule of requirement **Section-V (Point No-5.1.3(Pg. No-15)** **CMC Period** 5 years CMC after warranty for the Package as a whole as mentioned in schedule of requirement	**Amended** **Comprehensive warranty period** 5 years from the date of installation for the package as a whole as mentioned in schedule of requirement **CMC Period** 2 years CMC after warranty for the Package as a whole as mentioned in schedule of requirement
30	All the items of tender	User Certificate can be provided only for major items. Arranging user certificate and purchase order copies for certain minor equipments are difficult. Also, previous experience (PO Copies) of the manufacture company has to be considered as the previous experience of the manufacture's authorized distributor.	**Section-VI (Point No-6.17.13(Pg. No-28)** Copies of purchase orders & end user certificates in support of the information furnished in format T-9	**Amended** Copies of purchase orders & end user certificates in support of the information furnished in format T-9 for following items, 1. Automated DNA RNA extraction system and Real time PCR system 2. DNA Extraction and RT Quantitative Micro PCR Machine 3. Automated DNA Sequencer 4. Nano Volume Spectrophotometer with Cuvette 5. Refrigerated Micro Centrifuge 6. Electrophoresis System And Power Pack Power 7. Automated ELISA system 8. Thermo cycler

31	All the items of tender	Considering the project cost and investment involved by the bidder for execution, we request you to consider the payment terms be 70% against the stock entry certificate and 20% against the installation and demonstration/training of the item. 70% Payment should be release after shipment and 30% will release after successful installation and demonstration	**Section-VI (Point No-6.30.2(Pg. No-39)** 90% of the cost of the equipment (excluding CMC Cost) +100% installation cost if any + 100% tax shall be paid to the supplier on receipt of the stock entry certificate, installation and demonstration/ training of the item from the consignee.	No Change
32	All the items of tender	We request you to release the balance 10% payment upon the receipt of certificate on working status of the equipment from the consignee after 4 weeks of installation and commissioning of the equipment.	**Section-VI (Point No-6.30.3(Pg. No-40)** The balance 10% of the payment of equipment will be made after receipt of certificate on working status of the equipment from the consignee after 8 weeks of installation and commissioning of the equipment.	No Change
33	All the items of tender	Manufacturers authorization letter can be provided only for the following major equipments, S.No.1 (A). Automated DNA RNA extraction system, 1 (B).Real time PCR system, 3.Automated DNA sequencer, 6. Bio spectro photo meter kinetics (Nano drop /Nano volume Spectrophotometer, 10. Automated ELISA system Arranging Manufacture's authorization letter for minor equipments would be tedious and time consuming. More than 5 lacs valued items, need to provide authorization from principle company	**Page No 89:** **Section-VIII ((Pg. No-89)** Format – T7: MANUFACTURER'S AUTHORISATION FORM	**Amended** Manufacturers Authorization Form shall be provided only for the following major equipments, 1. Automated DNA RNA extraction system and Real time PCR system 2. DNA Extraction and RT Quantitative Micro PCR Machine 3. Automated DNA Sequencer 4. Nano Volume Spectrophotometer with Cuvette 5. Refrigerated Micro Centrifuge 6. Electrophoresis System And Power Pack Power 7. Automated ELISA system 8. Thermo cycler

N.B:-

1. **The amendments mentioned above are to be treated as amendments in the general term(s) and condition(s) and scope of work of the above tender reference. All other terms conditions remain unchanged.**

2. **Since any text in the price BOQ can't be changed in the e-tender portal, the amendments mentioned above are to be treated as amendments pertaining to price bid/ BOQ (if applicable).**

Amendment: The last of submission has been extended and revised dates are as follows:

Amended Last date for online technical bid submission – 21.02.2019, 5PM

Amended Last date for online technical bid opening – 23.02.2019, 11AM