Expression of Interest (EOI) for development (Equipment & infrastructure) of State level Viral Research Diagnostic Laboratory (VRDL) in the department of Microbiology at AIIMS, Raipur.

1. EOI is invited for development (Equipment & infrastructure) of State level VRDL that includes procurement of equipment, lab designing, concerned civil work, electrical work, furniture, wood work and partitioning etc.

2. Bidders are requested to quote for the equipment (List enclosed) in their proposal.

3. All interested vendors must visit the site to re-confirm their stand of providing the required laboratory equipment & infrastructure on Rs 100 stamp paper and explain in power point presentation to the VRDL management committee on 23/02/2018.

4. All interested vendors must provide the certificate of similar development of infrastructure designing of at least two VRDL laboratory at regional or state level on 23/02/2018.

5. All interested firms are requested to submit their plan of infrastructure development with details of their strategy, materials applied in the development of each of sub-sections mentioned below and their shelf life/durability in hard copy to address mentioned as under.

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6. The brief requirement of each of the sub sections of the VRDL is mentioned below with their specified allotted area and complete lay out of the VRDL to provide the first impression and access to the interested firms for quoting their proposal in best technical and scientific manner.

7. The Laboratory should be designed in a manner to provide unidirectional flow of work.

Following laboratory need to be developed for the state level VRDL as per the enclosed map-
Total Alloted area for state level VRDL : 259 Sq meter (including the corridors)

S.No.	Laboratory	Area denoted in Map	Allotted area	Preliminary specifications
1.	Sample receiving and report dispatch counter	S	20 meter^2	1. Complete covering of the area with upto 3 feet with anti-termite wooden and rest of the height covered with transparent glass. 2. One 6 X 2.5 transparent glass door 3. Two Glass shield window access to receive samples and dispatch reports.

				4. Semi-circular wooden anti-termite plated table with provision of accommodating desk top, printer and underneath shelves for keeping records. 5. 3 Chairs with wheels. 2. One SS working platform having cupboards underneath.
2.	Serology		26.12 meter^2	1. Epoxy coating walls to prevent any moisture related fungal growth. 2. Epoxy flooring. 3. Stainless steel cupboards, tables and wall mounted cupboards.
3.	Tissue culture	2 & 3	42 sq.m	1. Dismantling of existing wall between 2 and 3. 2. Constructing a wall to make two rooms 3 and 3a. 3. Sub-sections for i) ante room, ii) sample processing and iii) tissue culture section. 4. Anteroom /Change room: Air bath system before entry into sample processing section. It should also have small sink hand operated for hand wash. Stainless steel shoe covered rack and cupboard. 5. Sample processing sub-section: space for placing one BSC type II A2, Refrigerator, centrifuge, granite mount stainless steel platforms with cabinets. 6. Tissue culture sub-section: space for placing one BSC type II A2, one CO_2 incubator and inverted microscope with desktop. 7. Stainless steel cupboards, tables and wall mounted cupboards in each section.
4.	Cell line maintenance	3 a	16 Sq.m	Provision for keeping three liquid Nitrogen cylinders, BSC Type II A2, CO_2 Incubator and Inverted Microscope.

4.	PCR lab With three sub-sections a) Pre PCR b) PCR c) Post - PCR	6	28.57 Sq.m	a) Pre PCR 1. One pass box 2. One SS working platform having cupboards below the platform and wall mounted cupboards.
				b) PCR 1. One SS working platform 2. Cupboards below the platform 3. One wall mounted cupboard
				c)Post PCR 1. One wall mounted cupboard
5.	Sequencing Lab	7 a	18 Sq m	Granite platform with SS cupboards below the platform and wall mounted. Aluminium and glass partition.
6.	Office	C	24Sq.m	• Provision for potable water in one of the corner wall. • Provision for installation of PC, printer and photocopier.
7.	Washing Area & Autoclaving area	4	28.44 sq.m	Granite mounted working SS table, washing sink, and with side cupboards. SS wall mounted cupboards.

8. All laboratory areas mentioned above would require at least four 15 Amp sockets and four 5 Amp sockets per laboratory.

9. All laboratories should have epoxy coated or better walls and floors.

10. VMC (VRDL Management Committee) will make the final technical specifications after considering various EOIsreceived from the firms/bidders with- in a week i.e. by 27.02.2018.

11. The final tender along with complete technical specifications, administrative and financial clause will be uploaded on the AIIMS Raipur website by 5.03.2018.A period of two weeks will be provided to submit the final quotation for the establishment of state level VRDL.

12. Meanwhile, for any clarification, a pre-bid meeting is scheduled for 12.03.2018.

13. Date of opening of tender will be 20.03.18. VMC committee will evaluate technically, financially and administratively the various bids before awarding the contract.

Major Equipments required for State level VRDL, AIIMS, Raipur

S.No	Name of equipment	Quantity	Preferred Make
1.	New Generation Sequencer	1	Illumina Inc./ Thermofisher (Life Technologies)/ Equivalent
2.	RT-PCR	1	Roche/ Thermofisher/ Equivalent
3.	Biosafety cabinet Type II A2	2	ESCO/ Thermofisher/ Equivalent
4.	Laminar Air flow	1	ESCO/ Thermofisher/ Equivalent
5.	PCR Workstation	1	ESCO/ Thermofisher/ Equivalent
6.	CO_2 Incubator	1	ESCO/ Thermofisher/ Equivalent
7.	Incubator	1	ESCO/ Thermofisher/ Equivalent
8.	Vertical autoclave	2	Tuettenar/ Johnson and Johnson/Steelco/ Equivalent
9.	Liquid Nitrogen Can- 47 Litres	1	Thermofisher/ Equivalent
10.	Liquid Nitrogen Can -33 Litres	2	Thermofisher/ Equivalent
11.	Deep Freezer -70° C	1	ESCO/ Equivalent
12.	Ultrasonic homogenizer (0.01-250 ml)	1	Heilscher/ Equivalent
13.	Ice Flaking machine (100kg/hour)	1	Heilscher/ Equivalent
14.	Minor equipments • Electronic Pipettes • Adjustible micropipettes • Vortex mixer • Hot Plate Etc.		 Eppendorf/ Equivalent Eppendorf/ Equivalent Remi/ Equivalent Thermofisher/ Equivalent

SKETCH OF THE PROPOSED VRDL, AIIMS, Raipur