



जैव संसाधन और स्थायी विकास संस्थान, इम्फाल  
**INSTITUTE OF BIORESOURCES & SUSTAINABLE DEVELOPMENT (IBSD)**

**DEPARTMENT OF BIOTECHNOLOGY, GOVERNMENT OF INDIA**

**Takyelpat, Imphal – 795001, Manipur (India)**

**CORRIGENDUM**

**Imphal, July 29, 2020**

This refers to **Tender Notice no. 6/132/2020-IBSD(COVID-PUR dated July 17, 2020** for invitation of quotations for the supply and installation of different scientific equipments at IBSD, Imphal. There will be some slight changes in the specifications of the equipments listed in Annexure of the Tender document. Please ignore the previous specifications and the amended specifications for each equipment are appended below. Other terms and conditions including last date of submission of tender shall remain unchanged. All notices/information related to the tender are available at the Miscellaneous/Tender section of institute's website <http://ibsd.gov.in> and any subsequent notification will also be available in same website.

**Sd/-**  
(Atom Samarendra Singh)  
Purchase In-charge  
IBSD, Imphal



**Amended: ANNEXURE**

**LIST OF EQUIPMENTS FOR COVID TESTING CENTRE OF IBSD, IMPHAL**

<b>Sl. No.</b>	<b>Name of the Equipment/Consumables</b>	<b>No. of Equipment</b>
1.	<b>RT-PCR</b> 1. System should have Temperature should be between in range: 4 to + /- 99.9°C, uniformity of Accuracy: $\pm 0.40^\circ\text{C}$ with block ramp more than $6^\circ\text{C}/\text{sec}$ , and run time less than 40 minutes.  2. Enhanced security, audit and e-signature module (SAE) —21CFR part 11 enablement, with single or multiple instruments, with better control and ease.  3. Detection sensitivity: 1.5-fold resolution 1 copy of template 10 logarithmic units of dynamic range so you can detect differences as small as 1.5-fold, Instrument should also be capable of running HRM applications and software for the same should be available as an option.  4. Excitation source and detection range: CCD camera/CMOS/Photodiode decoupled with LED/Halogen excitation source with excitation/emission range 450–600 nm/500–640nm with whole plate imaging and detection.  5. The Pre-validated and functionally tested Taqman Gene Expression Assays as well as Taqman SNP Genotyping Assays should be readily available with the vendor.  6. The system should enable to connect with Online ecosystem, Facial authentication, Hands-free operation, System configuration Stand alone, PC connected, or direct connection via USB, LAN or Wi-Fi to the Connect platform.  7. System should come with laptop along with data analysis software, MIQE compliance: Real-time PCR data markup language with, CE, ISO 13485.  8. The system should come with a compatible UPS for power back up for at least 30 min.  9. Desktop option using Microsoft™ Windows™ 10 or Mac™ operating system.	<b>3 nos.</b>
2.	<b>Automated System for Nucleic acid (RNA/DNA) protein extraction and cell separation</b>  1. Instrument should be CE-IVD/FDA approved compatible with 96 well/32 well deep well plates and flexible for processing 1, 8, 24 and 48 or more samples in a single run. 2. The processing volume should be flexible for using variable sample volumes upto 400 microlitre or more. The kits supplied should be in prefilled cartridge/plate format to minimize user handling. 3. To avoid cross contaminations the instrument should not have liquid transfer step between the procedures. 4. The instrument should be able to perform extraction from 96 samples or more in less than 1 hr 5. System should be capable of utilizing user customizable protocols for accommodating kits from different sources.	<b>1 no.</b>



6. System should have internal in-built memory to store more than 50 pre-programmed and customizable protocols. It must be supplied with all necessary accessories/consumables required for operation. The system should not require external computer for operation.

**3. Bio-Safety Cabinet**

**2 nos.**

1. The Bio-safety cabinets class II (Type B2) should be 4 feet width with front window SS 304 grade or coated steel interior.
2. The Bio-safety cabinet must include DC ECM motors.
3. The motor must automatically adjust the airflow speed during HEPA filter loading.
4. Cabinet must use a pressure sensor (rather than anemometer) to detect flow of exhaust air out of cabinet.
5. The cabinet should display the inflow and must incorporate an LCD indicator, visual and audible alarm to indicate excessive HEPA filters loading, airflow speed failure, incorrect window position.
6. Bio-safety cabinet should have automatic operation option for UV, blower, UV light on sash opening and closing.
7. The cabinet should have clock option.
8. Security-lock codes to prevent unauthorized access.
9. The cabinet noise level must be less than 65dB (A) for a 4 feet cabinet.
10. The cabinet should be equipped with an exhaust flow alarm, such that an alarm sounds, and the cabinet blower shuts off in the event of insufficient exhaust flow.
11. UV light must be programmable to allow for specific exposure times from 0 to 100 hours.
12. Audible and visual alarms for blower failure, airflow speed failure, incorrect window position.
13. The cabinet should be provided with fixed/ adjustable height stand, UV light and one set of detachable arms rest and one/ electrical outlet.

**Warranty: 2 years**