



OFFICE OF THE PRINCIPAL INVESTIGATOR
Centre for Diagnosis, Surveillance & Response of Zoonotic Diseases
Post Graduate Institute of Veterinary Education and Research (PGIVER), Jaipur
(A Centre of Excellence in Higher Veterinary Education)
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मूषेनं नित्यं सर्वलोकप्रकारकम्

No. F()/PGIVER /CDSRZ /2022-23/ 346

Date: 18/3/23

CORRIGENDUM

With reference to the office No. F()/PGIVER /CDSRZ /2022-23/ 315 Dated 16.02.23 of E tender 01 for Establishment of BSL-3 Laboratory on Turnkey Basis - UBN No. VAU2223GLOB00173, the following amendments are made:

Amendment No. 1. On Tender document pg no. 32- point no. 4 is deleted. The new point No.4 is inserted as follows: -

- The clear design/layout of complete BSL-3 Lab will be submitted along with the tender which should be prepared by tenderer firm's authorized Design Engineer/Architect.
- During Tender Submission the bidder must attach a site visit report along with the layout that has been stamped and should be counter signed by authorized signatory officer, will be submitted along with the tender documents,

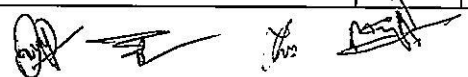
Amendment No. 2. On tender document pg no.- 71-74- List of items from serial no. 1-43 is deleted and in place of this new list of items from serial no. 1-45 is inserted as follows: -

New list of items

S. No.	Items	QTY	UNIT
1.	Supply AHU <ul style="list-style-type: none"> ➤ Supply and installation of Double skin AHU complete with mixing box, Cooling coil, and fan, volume control dampers for Supply, fresh air, and fresh air filter etc. ➤ Fan Make & Type - Nicotra/Kruger make DIDW Backward Curve Centrifugal Fan ➤ Drive Arrangement - Taper Lock Pulleys for Fan & Motor Both ➤ Type of Balancing/Test Procedure - Statically & Dynamically/AMCA Tested 		
1.1	Supply AHU capacity:800 CFM@125 mm SP / 4 TR	4	No
1.2	Spare Motor	4	No
1.3	Supply AHU capacity:1500 CFM@125 mm SP / 8 TR	1	No
1.4	Spare Motor	1	No
1.5	Condensing Unit - 4 Tr	10	No
1.6	Expansion valve & drier etc	10	SET
1.7	Copper piping (10 RMT Considered / machine)	10	SET
2	Exhaust - Air Handling Unit		

(Handwritten signatures and initials)

2.1	Exhaust AHU Capacity: 1000 CFM@125 mm SP	4	No
2.2	Exhaust AHU Capacity: 2000 CFM@125 mm SP	1	No
2.3	BIBO Filter Setup 1000CFM	4	No
2.4	BIBO Filter Setup 2000CFM	1	No
2.5	Filter Setup 1000CFM	4	No
2.6	Filter Setup 2000CFM	1	No
3	Ducting		
3.1	24 G G.I Duct with angle support	450	Sq.mtr
3.2	3 mm Angle frame	1400	Kgs
4	Insulation: Insulation material with Nitrile foam/cross linked Polyethylene material outer and adhesive will be used		
4.1	19 mm thick for supply duct	250	Sq.mtr
4.2	13 mm thick for Return duct	200	Sq.mtr
4.3	6mm Thick	60	Sq.mtr
5	Supply & Return air grills		
5.1	Supply air grills & Return air Diffuser with Damper: MOC: CRCA powder Coated, 1.2 mm thick with Perforation	30	No.
6	Dampers		
6.1	Galvanized steel Volume controlled damper, Opposed / parallel Blade Dampers are used to carry out a rough air system balance with closer control being carried out at the individual grilles or diffusers.	16	No.
6.2	Fire Damper	8	No.
7	Magnahelic Gauge	20	No
8	CEILING PANEL: Supplies of modular solid clean thick ceiling panel made up of 0.8 mm thick, both side PPGI Filled with PUF quality 40 kgm3 density. Panel are of tongue and groove type arrangement. Thickness: -60 mm. Aluminum profiles for reinforcement along the periphery all accessories etc.,	250	Sq.mtr
9	WALL PANEL: Supplies of modular clean wall panel made up of 0.8mm thick both side PPGI Filled with PUF quality 40 kgm3 density. Panel are of tongue and groove type arrangement. Thickness: - 50 mm. Aluminum profiles for reinforcement along the periphery all accessories etc.,	400	Sq.mtr
10	View Glass	10	No
11	COVING: Extruded aluminum powder coated clip on type R 52 covings for the entire wall to wall and wall to ceiling	550	RMT
12	3D Corners	140	No
13	Modular Clean Room Door Material: PPGI, Skin Thickness 0.8mm, Infill: PUF with flush double-glazing glass, hardware like door closure, D handles, ball bearing butt hinges and provision for concealed automatic door bottom seal		
13.1	Size (Single Door): 900 x 2100 mm -BIOSAFTY DOORS	10	No
13.2	Size: (Double Door) 1200 x 2100 mm- BIOSAFTY DOORS	1	No
13.3	Size: (Single Door) 1000 x 2100 mm-Metallic doors	7	No
14	Epoxy Flooring	250	Sq.mtr



15-	Door Interlocking System	4	SET
16	Static Pass Box - SS 304 (600 x 600 mm)	4	No
17	Dynamic Pass Box - SS 304 (600 x 600 mm)	4	No
18	Bio Safety Cabinet: Class II Type A2 Size: 4' x 2' x 2' (W x D x H) MOC: CRCA Powder Coated (Make: ESCO/THERMO FICHER)	4	No
19	Horizontal Autoclave	1	No
20	Vertical Autoclave	1	No
21	Fire Detection & Alarm System: Fire Detection and Alarm System will be provided for the entire BSL-3 Laboratory Facility to detect any eventual case of fire in the building	1	SET
22	Emergency backup for critical instruments - 125 KVA DG	1	SET
23	Emergency shower and Eye Wash	3	Nos
24	Laboratory Chairs	6	Nos
25	Trolley SS 304, size 2'x1'6"	5	Nos
26	EPABX System (Intercom facility): Telephone instrument with speaker facility (6 Telephone)	1	SET
27	CCTV Surveillance System with DVR and storage capacity with monitors and CCTV cameras (8 Nos)	1	SET
28	LAN wiring and connectivity with sockets to be provided at strategic locations throughout the BSL facility	1	SET
29	Garment Storage Cabinet: A garment storage cabinet that can be locked shall be provided in the Change rooms for each lab worker. The garment storage cabinets shall be in SS304 (Two way) (MOC: CRCA Powder Coated)	4	No
30	SS Grade Shoe racks	2	No
31	Water Shower (Closed shower)	1	No
32	Air Shower	1	No
33	Electricals: For the purpose of energizing the BSL Laboratory facility All the electrical fittings and fixtures in the laboratory's areas shall be suitable for clean room application and shall be sealed.	1	LOT
34	Lights and Electrical Switch/ Sockets	1	LOT
35	SS Bench, with cabinets and granite Top 2.5' Width and Ht 2.5'	50	RFT
36	AHU Control Panel	1	SET
38	Elbow operated tap with SS Sink unit	5	Nos
39	Fire Extinguishers - 2 Kg	4	No
40	Uninterrupted Power Supply system: For Interlocking system, Fire panel, CCTV etc (5 KVA)	1	No
41	Uninterrupted Power Supply system for Bio safety Cabinet (3 KVA)	4	No
42	Effluent Collection Tank: 500 L	1	Nos
43	Decontamination Process Tank: 500 L	2	Nos
44	Coat Hangers	10	Nos
45	Drain: All liquid drain coming out from the laboratory will be connected to a single drain with back flow prevention	1	LOT

Note: - THE QUANTITY MENTIONED HEREBY IS ESTIMATED QUANTITY AND IT SHOULD BE INCREASED AND DECREASED AS PER REQUIREMNT AND SUBJECT TO APPROVAL BY INCHARGE.

Amendment No. 3. Technical specification for Air Shower is added as follows :-

- **Air Shower without Biosafety Doors (With normal metallic doors):**
- An Air Shower is designed to supply Class 100 HEPA filtered air at high velocity to remove particulate matter from the person entering the cleanroom.
- The air shower rooms put at negative pressure of (-) 15 Pa from the set point for pressure gradient.
- Air Shower is a self-contained air chamber installed at the entrance to cleanrooms in order to minimize the number of particulate contaminants entering the cleanroom. Personnel move through the air shower while particulate contaminants are washed off with high velocity HEPA-filtered air jets. The significance of this is that the high air velocity, of about 6000 FPM, ensures efficient scrubbing necessary to remove the particulate matter.
- Contaminated air is then taken in through the base unit, filtered, and re-circulated into the chamber.
- Two stage filtration- EU6 and EU 14
- SS 304 doors with double walled flush glass view panels & door closer
- Air cleanliness - ISO Class 5 (ISO 14644-1:1999 (E))
- Air Velocities- 6000 fpm
- Vibration Level - Minimum
- Noise Level - Less than 70 dB
- Door panels interlocked with emergency push button for exit
- Pressure monitors
- LED light
- Preferred make of AIR SHOWER: - KLENZAID/ I CLEAN/ HT AIRTEC/ NICOMAC/ KPASS

Amendment No. 4. Lighting should be in the range of 500 lux in the complete BSL-3 laboratory.

Amendment No. 5. All BSL-3 lab area is 100% DG backed with dedicated 125 KVA DG set (minimum and tentative capacity subject to approval by Incharge).

Due to above amendments B.O.Q. (Financial Bid) Performa is revised. which Bidder must submit in .xls (Excel workbook 97-2003 workbook) only

NOTE: -


- a. Any bidder submits the tender as per old list of items and old B.O.Q treated as cancelled.
- b. All the necessary documents that are 3 DD's, affidavits etc. will be submitted to office of P.I., RKVY PROJECT, " Establishment of Biosafety level-3 (BSL-3) facility for the diagnosis of emerging zoonotic diseases" 2nd Floor, VCC Building, Post Graduate Institute of Veterinary Education and Research, NH-11, Agra Road, Jamdoli, Jaipur-302031 (Rajasthan) on or before 06/04/2023 up to 5.00 P.M. Tender firms, who have not submitted the necessary documents in the office, their technical bids will not be opened.

Due to the above amendments the last date of tender will be extended as under: -

Last Date and Time of submission of online bids and e-deposit: - 06/04/2023 up to 4.00 P.M
Date and Time of opening of Online technical bids: - 10/04/2023 at 12.30 P.M

c.


Prof. (Dr.) D.S. Meena
PI


Dr. M. M. Mali
Co-PI



Dr. Binay Joseph
Co-PI

Mr. Prem Kumar Khatri
Comptroller Nominee


Director Works, RAJUVAS

Dr. Basavaraj Mathapati
Scientist C (Virologist),
Technical Expert


Mr. Mukesh Sagarwal
Retd. AAO-I


Prof. (Dr.) D.S. Meena
Principal Investigator

Revised B.O.Q.

Tender Inviting Authority: PRINCIPAL INVESTIGATOR, CORRE & BSL-3, POWER (RAJIVAS), RAJASTHAN

Name of Work: Establishment of BSL-3 Laboratory at Tumkur Basin.

Contract No: F1/IGWER/CDSR/2022-23/915 Dated 10.02.2023

PRICE SCHEDULE (DOMESTIC TENDERS - RATES ARE TO GIVEN IN RUPEES (INR) ONLY)								
(This B.O.Q template must not be modified/replaced by the bidder and the same should be updated after using the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Value only)								
NOTE : Delivery Period:- 120 Days from the receipt of Supply Order								
Warranty Period:- 5 Year comprehensive warranty on all parts as well as on each item from the date of handover of BSL-3 Lab								
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	NUMBER #	TEXT #	
Sl. No.	Item Description	Quantity	UNIT	BASIC RATE IN INR (Without GST, Per Unit)	Applicable GST Amount In INR (%)	TOTAL AMOUNT With GST (PER UNIT)	TOTAL AMOUNT	
1	Supply AHU (Supply and installation of Double skin AHU complete with mixing box, Cooling coil, and fan, volume control dampers for Supply, fresh air, and fresh air filter etc. 1) Fan Make & Type - Nibro/Krieger make D10W Backward Curve Centrifugal Fan 2) Drive Arrangement - Upper Lock Pulleys for Fan & Motor both 3) Type of Balancing Test Procedure - Staticaly & Dynamically/AMCA Tested							
1.1	Supply AHU capacity: 500 CFM @ 125 mm SP / 4 TR	4.00	No	0.00	0.00	0.00	INR Zero Only	
1.2	Spares Motor	4.00	No	0.00	0.00	0.00	INR Zero Only	
1.3	Supply AHU capacity: 1500 CFM @ 125 mm SP / 8 TR	1.00	No	0.00	0.00	0.00	INR Zero Only	
1.4	Spares Motor	1.00	No	0.00	0.00	0.00	INR Zero Only	
1.5	Condensing Unit - 4 Tr	10.00	No	0.00	0.00	0.00	INR Zero Only	
1.6	Expansion valve & drier etc	10.00	No	0.00	0.00	0.00	INR Zero Only	
1.7	Copper pipes (3D RMT Considered / machine) etc	10.00	No	0.00	0.00	0.00	INR Zero Only	
2	Exhaust - 2" Dia. High Speed	10.00	No	0.00	0.00	0.00	INR Zero Only	
2.1	Exhaust AHU Capacity: 1000 CFM @ 125 mm SP	4.00	No	0.00	0.00	0.00	INR Zero Only	
2.2	Exhaust AHU Capacity: 2000 CFM @ 125 mm SP	1.00	No	0.00	0.00	0.00	INR Zero Only	
2.3	BIO Filter Setup 1000CFM	4.00	No	0.00	0.00	0.00	INR Zero Only	
2.4	BIO Filter Setup 2000CFM	1.00	No	0.00	0.00	0.00	INR Zero Only	
2.5	Filter Setup 1000CFM	4.00	No	0.00	0.00	0.00	INR Zero Only	
2.6	Filter Setup 2000CFM	1.00	No	0.00	0.00	0.00	INR Zero Only	
3	Ducting							
3.1	24 G G.I Duct with angle support	450.0000	sq.mtr.	0.00	0.00	0.00	INR Zero Only	
3.2	3 mm Angle frame	1400.00	kgs	0.00	0.00	0.00	INR Zero Only	
4	Insulation: Insulation material with Nibro foams/ cross linked Polyethylene material outer and adhesive will be used							
4.1	10 mm thick for supply duct	250.00	sq.mtr.	0.00	0.00	0.00	INR Zero Only	
4.2	13 mm thick for Return duct	250.00	sq.mtr.	0.00	0.00	0.00	INR Zero Only	
4.3	6mm Thick	60.00	sq.mtr.	0.00	0.00	0.00	INR Zero Only	
5	Supply & Return air grille							
5.1	Supply air grille & Return air Diffuser with Damper MOC: CRCA powder Coated, 1.2 mm thick with Perforation	30.00	No	0.00	0.00	0.00	INR Zero Only	
6	Dampers							
6.1	Galvanized steel Volume controlled damper. Opposed / parallel Blade Dampers are used to carry out a rough air system balance with closer control being carried out at the individual grilles or diffusers	10.00	No	0.00	0.00	0.00	INR Zero Only	
6.2	Fire Damper	8.00	No	0.00	0.00	0.00	INR Zero Only	
7	Magnahelic Gauge	20.00	No	0.00	0.00	0.00	INR Zero Only	
8	CEILING PANELS: supplies of modular clean 50mm thick ceiling panel	250.00	sq.mtr.	0.00	0.00	0.00	INR Zero Only	
9	WALL PANELS: supplies of modular clean 50mm thick wall panel	400.00	sq.mtr.	0.00	0.00	0.00	INR Zero Only	
10	View Glass	10.00	No	0.00	0.00	0.00	INR Zero Only	
11	Corner: anodized aluminum powder coated clip on type R32 cover	850.00	RMT	0.00	0.00	0.00	INR Zero Only	
12	R32 Corners	120.00	No	0.00	0.00	0.00	INR Zero Only	
13	Modular Clean Room Door Material: PCGI, Skin Thickness 0.8mm, 100% PUW with flush double door closure, D handles, ball bearing butt hinges and provision for concealed automatic door lock							
13.1	Size (Single Door): 900 x 2100 mm - BIO SAFETY DOORS	10.00	No	0.00	0.00	0.00	INR Zero Only	
13.2	Size (Double Door) 1200 x 2100 mm - BIO SAFETY DOORS	1.00	No	0.00	0.00	0.00	INR Zero Only	
13.3	Size (Single Door) 1000 x 2100 mm - Metal doors	7.00	No	0.00	0.00	0.00	INR Zero Only	
14	Epoxy Flooring	250.00	sq.mtr.	0.00	0.00	0.00	INR Zero Only	
15	Door Interlock System	4.00	SET	0.00	0.00	0.00	INR Zero Only	
16	Static Pass Box - SS 304 (600 x 600 mm)	4.00	No	0.00	0.00	0.00	INR Zero Only	
17	Dynamic Pass Box - SS 304 (600 x 600 mm)	4.00	No	0.00	0.00	0.00	INR Zero Only	
18	Bio Safety Cabinet: Class II Type A2 Size: 4' x 2' x 2' (W x D x H)	4.00	No	0.00	0.00	0.00	INR Zero Only	
19	MOC: CRCA powder Coated (Make: SICO/THERMO FICHFR)	1.00	No	0.00	0.00	0.00	INR Zero Only	
20	Horizontal Autoclave	1.00	No	0.00	0.00	0.00	INR Zero Only	
21	Vertical Autoclave	1.00	No	0.00	0.00	0.00	INR Zero Only	
22	Fire Detection & Alarm System: Fire Detection and Alarm System will be provided for the entire BSL-3 Laboratory Facility to detect any essential case of fire in the building	1.00	SET	0.00	0.00	0.00	INR Zero Only	
23	Emergency backup for critical instruments - 125 KVA DG	1.00	SET	0.00	0.00	0.00	INR Zero Only	
24	Emergency shower and Eye Wash	3.00	No	0.00	0.00	0.00	INR Zero Only	
25	Laboratory Chair	6.00	No	0.00	0.00	0.00	INR Zero Only	
26	Toolbox SS 304, Size 2'x1'x1'	8.00	No	0.00	0.00	0.00	INR Zero Only	
27	EPAX System (retrofit facility). Telephone instrument with speaker facility (3 telephones)	1.00	SET	0.00	0.00	0.00	INR Zero Only	
28	CCTV Surveillance System with DVR and storage capacity with camera and CCTV cameras (8 Nos)	1.00	SET	0.00	0.00	0.00	INR Zero Only	
29	LAN wiring and connectivity with sockets to be provided at strategic locations throughout the BSL facility	1.00	SET	0.00	0.00	0.00	INR Zero Only	
30	Garment Storage Cabinet: A garment storage cabinet that can be locked shall be provided in the Change rooms for each lab worker. The garment storage cabinets shall be in SS304 (Two way) (MOC: CRCA powder Coated)	4.00	No	0.00	0.00	0.00	INR Zero Only	
31	SS Grade Shoe racks	2.00	No	0.00	0.00	0.00	INR Zero Only	
32	Water Shower (Closed shower)	1.00	No	0.00	0.00	0.00	INR Zero Only	
33	Air Shower	1.00	No	0.00	0.00	0.00	INR Zero Only	
34	Electricals: For the purpose of energizing the BSL Laboratory facility all the electrical fittings and fixtures in the laboratory areas shall be suitable for clean room application and shall be sealed	1.00	LOT	0.00	0.00	0.00	INR Zero Only	
35	Light and Electrical Switch Sockets	1.00	LOT	0.00	0.00	0.00	INR Zero Only	
36	SS Bench, with cabinets and granite Top 2.5' Width and Ht 2.5'	80.00	RFY	0.00	0.00	0.00	INR Zero Only	
37	AHU Control Panel	1.00	SET	0.00	0.00	0.00	INR Zero Only	
38	Elbow operated tap with SS Sink unit	2.00	No	0.00	0.00	0.00	INR Zero Only	
39	Fire Extinguishers - 2 Kg	4.00	No	0.00	0.00	0.00	INR Zero Only	
40	Uninterrupted Power Supply system: For interlocking system. (10 kVA) (MOC: CRCA powder Coated)	1.00	No	0.00	0.00	0.00	INR Zero Only	
41	Uninterrupted Power Supply system for Bio safety Cabinet (3 KVA)	4.00	No	0.00	0.00	0.00	INR Zero Only	
42	Effluent Collection Tank 500 L	1.00	No	0.00	0.00	0.00	INR Zero Only	
43	Decantation Process Tank 500 L	2.00	No	0.00	0.00	0.00	INR Zero Only	
44	Coat Hangers	10.00	No	0.00	0.00	0.00	INR Zero Only	
45	Drain: All liquid drain coming out from the laboratory will be connected to a single drain with back flow prevention	1.00	LOT	0.00	0.00	0.00	INR Zero Only	
Total in Figures							0.00	INR Zero Only
Quoted Rate in Words								INR Zero Only