

**Project Name: Design, Construction, Testing, Commissioning and Validation of TB Containment Laboratories and Associated Works on 'Turnkey Basis' under Revised National Tuberculosis Control Programme (RNTCP) across India**

**Amendment No.- 04**

**Dated: - 11/10/2018**

- I. ATI No. : SAMS/FIND/Lab Upgradation/ATI/12/2019  
 II. Date of Publication / Notification : 26/08/2019

Reference original ATI published on 26/08/2019, following amendment is issued (applicable at all relevant sections of ATI)

**1. Extension of date of bid submission and opening of technical bids:**

<b>Ref of ATI</b>	<b>Existing (For)</b>	<b>As amended (Read as)</b>
<b>Cover Page</b>		
<b>Last Date, Time and Place for receipt of Bids</b>	<b>17<sup>th</sup> October, 2019 till 03.00 PM</b> at Strategic Alliance Management Services Pvt. Ltd. B01-B03, Vardhman Diamond Plaza, Community Centre, D. B. Gupta Road, Paharganj, New Delhi - 110055	<b>21<sup>st</sup> October, 2019 till 03.00 PM</b> at Strategic Alliance Management Services Pvt. Ltd B01-B03, Vardhman Diamond Plaza, Community Centre, D. B. Gupta Road, Paharganj, New Delhi - 110055
<b>Date, Time and Place for opening of Technical bids</b>	<b>17<sup>th</sup> October, 2019 till 03.30 PM</b> at Strategic Alliance Management Services Pvt. Ltd. B01-B03, Vardhman Diamond Plaza, Community Centre, D. B. Gupta Road, Paharganj, New Delhi - 110055	<b>21<sup>st</sup> October, 2019 till 03.00 PM</b> at Strategic Alliance Management Services Pvt. Ltd B01-B03, Vardhman Diamond Plaza, Community Centre, D. B. Gupta Road, Paharganj, New Delhi - 110055

**2. ADDITION OF ONE MORE LAB FOR UP-GRADATION WORKS: Details of 10<sup>th</sup> lab added in the Tender**

**3. SECTION- I: INSTRUCTIONS TO BIDDERS (ITB)**

**a. Clause no. 17. EARNEST MONEY DEPOSIT (EMD)**

<b>Schedule No.</b>	<b>Name of Laboratory for Up-gradation Works</b>	<b>Amount of EMD (INR)</b>
<b>X</b>	Narayan Medical College, Old GT Road, District Rohtas, Jamuhar Sasaram, Bihar 821305	1,00,000/-

#### 4. TECHNICAL EVALUATION CRITERIA OF BID

##### a. ASSESSMENT OF QUALIFICATION (Refer ITB para 27 A.)

- (b) The bidder or Bidder and their consortium partner(s) (as the case may be) together should have experience of successfully and satisfactorily executing **similar works\*** during last seven years (as on date of opening of technical bids) as specified below;

<b>Eligibility for (Number of schedules quoted)</b>	<b>Minimum similar work experience (No. of similar works/Labs)</b>
One or Two	Two
Three	Three
Four	Four
Five	Five
Six	Six
Seven	Seven
Eight	Eight
Nine	Nine
<b>Ten</b>	<b>Ten</b>

**\*Similar works shall mean successful construction, testing, commissioning and validation of Bio-Safety laboratory (BSL-2/ BSL-3/BSL-4 Laboratories) /TB Containment laboratories)/ Biomedical research facility/vaccine facility including Internal construction works, electrical works, HVAC works, Access Control System etc.**

**5. Price Bid Form for Schedule-X (Narayan Medical College, Old GT Road, District Rohtas, Jamuhar Sasaram, Bihar 821305)**

**Form FIN-3: Priced Bill of Quantity**

*(To be submitted for each quoted Schedule with Price bid only)*

*Bidders shall submit detailed workings of Lump Sum Contract Price (Component-A & B as given in FIN-2) for Design, Construction, Testing, Commissioning and Validation of TB Containment Laboratory and associated works on 'Turnkey Basis'. The total price mentioned in the table below should coincide with the Price Component A & B as given in FIN-2 for each Schedule.*

**Schedule X:- Narayan Medical College, Old GT Road, District Rohtas, Jamuhar Sasaram, Bihar 821305**

Sl. No.	Item description	Unit of Measurement (UOM)	Quantity	Specifications with capacity (wherever applicable) and warranty as specified by Manufacturer	Proposed Makes / Manufactures
1	Thermal Insulation				
2	HEPA Filter H14				
3	Diffusers, Grilles				
4	Airtight and Gastight Isolation Dampers				
5	VAV Dampers & Leak dampers				
6	Fire Damper				
7	Magnehelic Gauge				
8	Containment HEPA filter housing				
9	BIBO Indigenous				
10	AHU and Ventilation units				
11	AHU Plenum Filters G4 , F7				
12	AHU Blower- Supply & Exhaust				
13	AHU Motor-Supply & Exhaust				
14	Condensing unit				
15	HVAC Control valves				
16	Modular Material for Ceiling and Walls				
17	GI Sheets				
18	Epoxy Flooring Material				
19	Distribution Boards				
20	LT Switchgear (ACB, MCCB, MCB,ELCB, RCCB, Contactors, SFUs)				
21	FUSE				
22	VFD				
23	Timers				
24	Protection Relays				
25	Selector Switches				
26	Change Over Switch				
27	Ammeters, Voltmeters,				
28	Indication Lamps (LED Type)				
29	Push Buttons				
30	PF Meters				
31	Energy Meter				
32	Electrical Multi-function Meters				
33	Load Managers				
34	Current Transformers (Cast Resin)				

Sl. No.	Item description	Unit of Measurement (UOM)	Quantity	Specifications with capacity (wherever applicable) and warranty as specified by Manufacturer	Proposed Makes / Manufactures
35	Telephone Tag Box				
36	Industrial type Metallic plug sockets				
37	Modular switches, socket outlets, LED ceiling lights				
38	PVC Conduits, Accessories				
39	MS Structural's				
40	Copper wires				
41	XLPE insulated, armoured,				
42	Aluminium conductor cables				
43	Telephone, Co-axial wires & Cables				
44	Data Cables (CAT 5e, 6)				
45	CONTROL JUNCTION BOXES				
46	Network Switches				
47	CCTV & CAMERAS				
48	UPS				
49	LED Monitor				
50	Door Interlock and Access control System				
51	Smoke Detectors				
52	Addressable analogue main panel				
53	FIRE ALARM SYSTEM				
54	Differential Pressure Switch				
55	Temperature sensor				
56	Temperature transmitter				
57	Temperature display				
58	Humidity sensor				
59	Humidity transmitter				
60	Humidity display				
61	Pressure sensor				
62	Pressure transmitter				
63	Pressure display				
64	3-Channel Monitor display with Audio-visual alarm system, wiring & accessories				
65	Vinyl Flooring for Passage/Corridor				
66	Other items (please specify) **				
67	Other items (please specify)**				

**Note: Bidder may include any important item/s missed from the above list and site-specific work requirement associated with TB Containment Lab up-gradation**

**6. Schedule of Requirement, Technical Specifications and Drawings/ Layouts Of Laboratories and Required additional Works FOR NEW LAB (REFER SECTION-IV OF BID)**

**a. schedule of Requirement**

Schedule No.	Brief Scope of Works and List of Sites
	Design, Construction, Testing, Commissioning and Validation of TB Containment Laboratory and associated works with two years of Comprehensive warranty period on 'Turnkey Basis' in compliance with Revised National Tuberculosis Control Programme (RNTCP), Central TB Division(CTD), Govt of India (GoI) and the cost of maintenance of laboratories for the period of 3 years after warranty period at following additional site:
<b>X</b>	Narayan Medical College, Old GT Road, District Rohtas, Jamuhar Sasaram, Bihar 821305

b. **Schedule for Completion and Handover of Works:** Within six (06) months of issuance of Notification of Award (NOA) for each quoted Schedule.

c. **Detailed address of site:**

Address	consignee's representative	Tel / Mobile	Email	Alternate Staff Officer	Mobile	Alternate Staff Email
Narayan Medical College, Old GT Road, District Rohtas, Jamuhar Sasaram, Bihar 821305	Dr Mukesh Kumar (Associate professor)	8126221590	<a href="mailto:mukesh.dr@gmail.com">mukesh.dr@gmail.com</a>	Dr Prabhat Kumar	9955648967	<a href="mailto:prabhatasha@gmail.com">prabhatasha@gmail.com</a>

**D. SCOPE OF WORK AND TECHNICAL SPECIFICATIONS OF THE UPGRADATION WORKS OF THE ADDED LAB WILL BE AS PER SECTION IV. D.**

e. **SCOPE OF WORKS FOR ADDITIONAL WORK REQUIREMENT AND SOME SITE-SPECIFIC DETAIL FOR TB CONTAINMENT LAB UP-GRADATION WORK**

**Additional work requirement and some site-specific detail for TB containment lab up-gradation work  
Please refer to lab layouts for clarity on below requirements (Please refer to lab layouts for clarity on below requirements):**

Name of Lab	Specific work requirement
<b>10. Narayan Medical College (NMC), Rohtas, Bihar</b>	<p><b><u>TB Containment Lab:</u></b></p> <ul style="list-style-type: none"> <li>• Closing of existing entry door to the proposed TB Containment Lab (existing Room 1).</li> <li>• Creation of door on the southern wall of Room 1 such that the entry to the lab through Anteroom as show in the layout.</li> <li>• Creation of door on the western wall of existing Room 1 for emergency exit as shown in the layout.</li> <li>• Creation of Platform over the drain outside the Emergency Exit.</li> <li>• Creation of concrete platform for AHU outdoor units as shown in the layout.</li> <li>• Complete whitewashing of the entire room.</li> <li>• Complete removal of RCC Work platform inside the Room including the plumbing pipelines.</li> <li>• Permanently sealing with brick &amp; mortar of the existing window inside the Room.</li> <li>• Individual thimble ducting of two Biosafety Cabinet (one in the Microscopy and Staining room &amp; another in the BSL2 Room) with dampers and with suitable external blower assembly. The ducting material &amp; External blower of adequate capacity for BSC ducting should be provided by Identified Agency.</li> <li>• Installation of one additional Pass box PB3 in between BSL II and Microscopy room as per specification provided in the technical part.</li> </ul>

**General Work Requirement of Site:**

- Batteries of UPS should be provided with rack. UPSs with batteries should be installed and well-arranged/organized well giving aesthetic look
- Dedicated earthing to be done for TB Containment Lab

**f. Area Details of TB Containment Lab**

Sch. No.	Name of the Site	Lab Location	TB Containment Lab		Ante Room		Change Room		Total Area(D+F+H)	No. of BSC to be installed	No. of Trolley	Capacity of split AC *		Total quantity of AC	Location of AHU
			Dimensions	Area(sq. ft.)	Dimensions	Area(sq. ft.)	Dimensions	Area(sq. ft.)				1.5 TR	2 TR		
10	Narayan Medical College (NMC), Rohtas, Bihar	Ground Floor	19'10" X 15'6"	298	5'6" X 6'	33.6	6' X6'	36	368	2	4 (3 Two tier trolleys for each BSC +1 trolley with lid for transportation of material from lab to the Autoclave room)	-	2 TR	2	Ground Floor

\* Back up split AC for after work hours support for MGIT

**g. Power requirement**

Sl. No.	Equipment	Quantity	Power Requirement (W) Approx	Dimension (Feet & Inch) L X H X D	Weight (Kg)	Remarks	Placement
1	Biosafety Cabinet(with external blower)	2/3*	2000	4'4" x 7'3" x2'6"	225	Thimble ducting	Floor Standing
2	Refrigerated centrifuge with UPS	1/2/3*	1800	2' x1'3" x 2'3"	120		Benchtop
3	MGIT	1	1560	2'6" x 4'6" x 3	500		Floor Standing
4	Printer for MGIT	1	50	1'3" x1'6" x 1'7"	NA		Floor Standing
5	Vortex	2/3***	30	0.4" x 0.4" x 0.6"	3		Benchtop
6	Refrigerator	1	500	2'1" x 2' x 4'	52		Floor Standing
7	Electric Micro Incinerator	2/3***	1000	0.4' x 0.6' x 0.6'	2		Benchtop
8	Split AC	2/3**	2000-3500	3'2" x 1' x 1'	15	Depends on Manufacturer	Wall Mounted

Note  
 \* As per Layout  
 \*\* Per Equipment  
 \*\*\* Per BSC

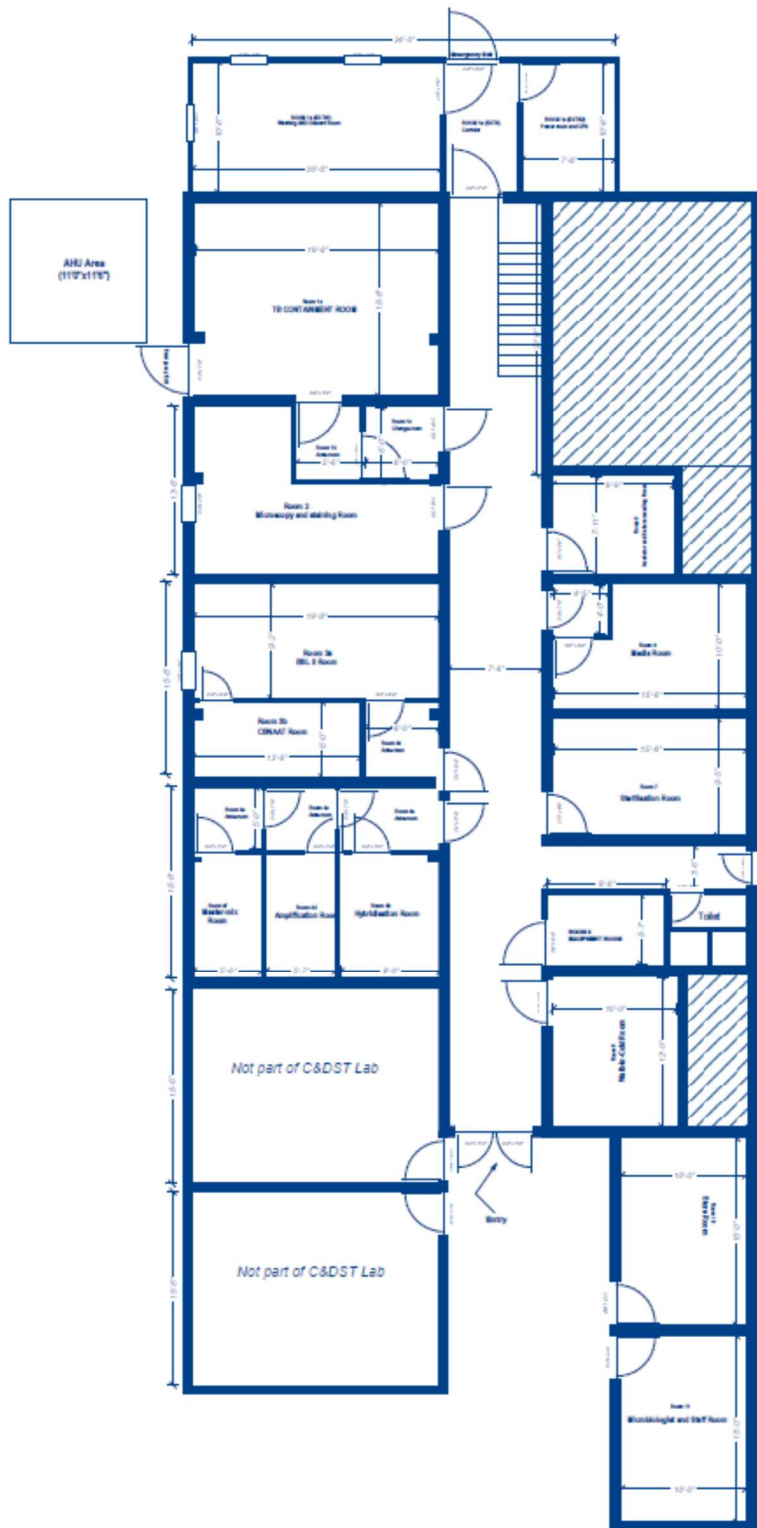
**h. Lab Layout/ Drawings (Sch. No. X – Narayan Medical College (NMC), Rohtas, Bihar)**

**Existing Layout,  
Narayan Medical College, Sasaram, Rohtas, Bihar**





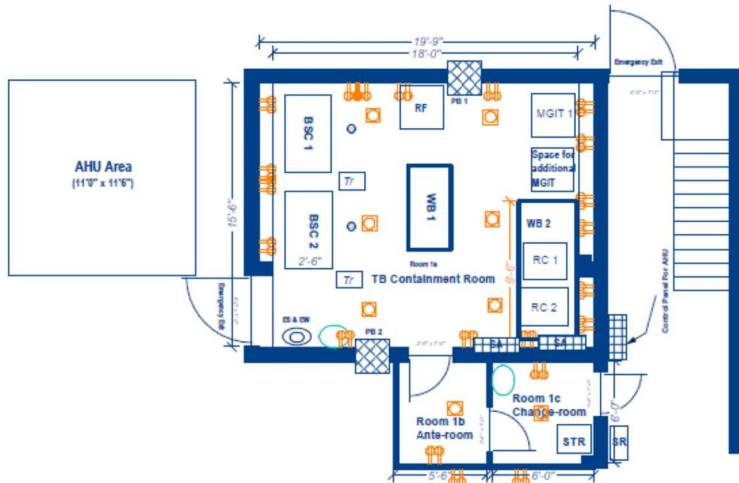
**Proposed C&DST Lab, Sasaram  
Narayana Medical College, Sasaram, Rothas, Bihar.**



**Room Dimensions:**

- Room 1(a) (EXTN1) (WASHING AND DISCARD ROOM): 19'10" x 10'6"
- Room 1(a) (EXTN2) (POWER AND UPS ROOM): 7'6" x 10'8"
- Room 1(a) (TB CONTAINMENT ROOM): 19'10" x 15'6"
- Room 1(b) (ANTE ROOM): 5'8" x 8'3"
- Room 1(c) (CHANGE ROOM): 6'0" x 6'0"
- Room 2 (MICROSCOPY AND STRAINING ROOM): "L" Shaped  
 "I" Shape: 12'0" x 7'3"  
 "J" Shape: 8'0" x 13'6"
- Room 3(a) (BSL II ROOM): 19'10" x 7'3"
- Room 3(b) (CBNAAT ROOM): 3'6" x 9'8"
- Room 3(c) (ANTE ROOM): 10'4" x 9'0"
- Room 4(a) (ANTE ROOM): 8'0" x 5'0"
- Room 4(b) (HYBRIDISATION ROOM): 8'0" x 10'8"
- Room 4(c) (ANTE ROOM): 5'7" x 5'0"
- Room 4(d) (AMPLIFICATION ROOM): 5'7" x 10'8"
- Room 4(e) (ANTE ROOM): 5'5" x 5'0"
- Room 4(f) (MASTER-MIX ROOM): 5'8" x 10'6"
- Room 5 (INCUBATOR AND CULTURE READING ROOM): 9'10" x 8'0"
- Room 6 (MEDIA ROOM): 15'8" x 10'0"
- Room 7 (STERILISATION ROOM): 15'8" x 9'8"
- Room 8 (EQUIPMENT ROOM): 9'8" x 5'0"
- Room 9 (WALK IN COLD ROOM): 10'0" x 12'0"
- Room 10 (MEDIA ROOM): 10'0" x 15'0"
- Room 11 (MICROBIOLOGIST AND STAFF ROOM): 15'0" x 10'0"

## Proposed layout for TB Containment Layout Narayan Medical College, Sasaram, Rothas, Bihar



### TB Containment Lab Furniture and others:

PB: Pass-Box (2' x 2') (2 nos)  
 S: Revolving Stools (5 nos)  
 TR: Trolley (2' x 1'6") (2 nos)  
 ES & EW: Emergency shower and Eye Wash  
 SC: Storage Cabinet  
 SR: Shoe Rack  
 EE: Emergency Exit  
 STR: Storage racks  
 Racks: 1'6" x 3'6" x 6'

### Equipment Details

BSC: Bio-safety Cabinet  
 MGIT: MGIT 960  
 RF: Refrigerator  
 RC: Refrigerator Centrifuge

### Room Dimensions:

Room 1(a) (TB CONTAINMENT ROOM): 19'10" x 15'6"  
 Room 1(b) (ANTE ROOM): 5'6" x 6'0"  
 Room 1(c) (CHANGE ROOM): 6'0" x 6'0"

WB 1a: Work Bench (LxWxD) (5'0" x 2'6" x 2'6"): TB Containment Room  
 WB 1b: Work Bench (LxWxD) (8'6" x 2'6" x 2'6"): TB Containment Room

### Additional Work:

1. Closing of existing door to Room 1.
2. Creation of door on the southern wall of Room 1 such that the entry to the lab through Ante-room as shown in the layout.
3. Creation of door on the western wall of Room 1 for emergency exit as shown in the layout.
4. Creation of Platform over the drain outside the Emergency Exit.
4. Creation of platform for AHU as shown in the layout.

The above amendment is integral part of the original ATI and shall be applicable to all relevant sections of the referred ATI. Kindly prepare and submit your bids accordingly.

For Strategic Alliance Management Services Pvt. Ltd.

**Dinesh Kumar**  
(Procurement Officer)