

# **Tender Document**



## **Name of Work**

**Renovation/Upgradation related Works of the  
Physics and Chemistry Laboratories  
at University of Kota, Kota**

**e-NIBNo: 12/2026-27**

## **Bid Submitted by**

**Name** : - -----

**Address** : - -----

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**Contact No.** :- -----

**Email ID** :-----



# University of Kota, Kota

MBS Marg, Near Kabir Circle, Kota  
Ph No.-0744-2472934 e-mail ID: registrar@uok.ac.in

## Part-A: Bid Details

| S. No. | Particulars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Details                                                                                                           |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 1.     | Bid for (Name of work for which the tender is submitted).                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Renovation/Upgradation related Works of the Physics and Chemistry Laboratories at University of Kota, Kota</b> |
| 2.     | <b>NIT Dispatch No &amp; Date.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No. 5923 dated 29/07/2026                                                                                         |
| 3.     | Work completion time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 90 days                                                                                                           |
| 4.     | Address of Procurement Entity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Registrar, University of Kota, Kota<br>Contact No 07442472934<br>E-mail ID: registrar@uok.ac.in                   |
| 5.     | PAN Card No.<br>(Copy shall be enclosed).                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                   |
| 6.     | GST registration No.<br>(Copy shall be enclosed).                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                   |
| 7.     | The tender fee amounting to <b>Rs.3000/-</b> has been deposited vide original Demand Draft in favour of Registrar, University of Kota.                                                                                                                                                                                                                                                                                                                                                                          | Demand Draft Number.....<br>Bank .....<br>Dated.....                                                              |
| 8.     | Bid Security/Earnest money amounting to <b>Rs.270000/-</b> has been deposited vide Demand Draft in favour of Registrar, University of Kota.                                                                                                                                                                                                                                                                                                                                                                     | Demand Draft Number.....<br>Bank .....<br>Dated.....                                                              |
| 9.     | The RISL fee amounting to <b>Rs.2000/-</b> has been deposited vide Demand Draft in favour of M.D. RISL Jaipur.                                                                                                                                                                                                                                                                                                                                                                                                  | Demand Draft Number.....<br>Bank .....<br>Dated.....                                                              |
| 10.    | The Bidder should have satisfactorily completed similar projects (i.e. Development of various academic or industrial Labs) as defined total amounting to 80% as single order OR 60% each in two orders OR 40% each in Three orders OR 25% each in Five work orders in past 10 financial years of tender value. The order copies with successful delivery/installation proofs should be attached by the bidder. The order copies should relevant with similar projects in central/State Govt./Govt. undertakings |                                                                                                                   |

|     |                                                                                                                                                                                             |  |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 11. | Minimum average turnover of last 5 financial years should be 67.50 lacs of total tender value. CA certified turnover certificate should be attached.                                        |  |
| 12. | Annexure A, B, C, D and Special Conditions duly signed on each page shall be enclosed.                                                                                                      |  |
| 13. | Bidders are required to submit affidavit on non-judicial stamp paper of Rs 100/-, regarding trueness of facts / information provided in for tender along with NON blacklisting declaration. |  |

Enclosures: -for Technical Compliance

- (i) Bid Security/Earnest money, Tender Fee, Processing Fee
- (ii) Copy of PAN Card, GST registration.
- (iii) Work experience certificate issued by the competent authority.
- (iv) Annexure A, B, C, D, and special conditions duly signed on each page.

Signature of the bidder with  
Seal & Mob. No.



# University of Kota, Kota

MBS Marg, Near Kabir Circle, Kota

Ph No.-0744-2472934 e-mail ID: registrar@uok.ac.in

## Part-B: Technical Specifications

### 1. Physics Laboratories:

"C" frame system-a SEFA-10, 2016 certified compliant system shall be constructed using a 60 mm x 30 mm rectangular pipe of 2 mm thickness. The Frame does not have any front vertical legs, which provides a much orderly look. It comes with a leveler at the bottom, so that unevenness of any floor can be ironed out. Horizontal Connecting Rods are removable and can be constructed in any width according to preference. Back Panels are removable and are used to cover the utility lines going on the back. They can be easily removed to approach the service area for maintenance. All Hanging Storages are:

- 100% Epoxy Powder Coated CRCA Sheet, made on CNC Machines, Body in 0.8 mm thick, Shutters & Drawers in Sandwich Construction
- Box Sizes - L-1400/750/600/450/Corner-850 mm, H-635 mm, Depth 530 mm
- Table Heights -Standing Height - 900 mm, Sitting Height - 800 mm
- Hardware: Telescopic Channels - Hettich, Hinges - Hettich, Lock - Hettich/Ozone, Handles - Solid SS-304
- Electrical trunk box - 1.0 mm thick virgin CRCA sheet duly powder coated.
- Electrical Sockets - Anchor Roma / Norisys/ or Equivalent Make.

### Physics Lab: Room No - 201 (Sitting HT - 800 mm):

| S.No. | Description of Material                                                                  | Qty      | Unit       |
|-------|------------------------------------------------------------------------------------------|----------|------------|
|       | <b>Lab Furniture as per Layout, consisting of:</b>                                       | <b>1</b> | <b>Set</b> |
| 1     | C-Frame - Sitting - Size L-705 x H-775 x D-30 mm, made of 60x30mm pipe of 2 mm thickness | 8        | No.        |
| 2     | Connecting Set of L-1350 mm for Sitting height C Frame Structure                         | 4        | No.        |
| 3     | Connecting Set of L-600 mm for Sitting height C Frame Structure                          | 2        | No.        |
| 4     | Storage Size-L-600xD-530xH-635 mm, 3 Drawers                                             | 6        | No.        |

|    |                                                                                                                                                                                                                                                                                         |    |     |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
| 5  | Legspace-750 mm with BACK COVER PLATE with Keyboard on Hanging Channels                                                                                                                                                                                                                 | 4  | No. |
| 6  | End Cover panel for 750mm Counter Depth, with Sitting Height                                                                                                                                                                                                                            | 4  | No. |
| 7  | Single Sided CRCA Electrical Raceway max L-2m, H-100 x D-75 mm Top/Wall Mounted with 3 Nos. 6 Module Cut-outs                                                                                                                                                                           | 7  | Mtr |
| 8  | Set of 5A - 1no. & 15A - 1no. Switches & Sockets with Face Plate (ANCHOR ROMA / NORISYS) without wiring                                                                                                                                                                                 | 10 | Set |
| 9  | Full Height Storage with Glass in Shutter, Size H-1980 x W-910 x D-480 with 4 shelves making 5 compartments, Snap-Shut Locking System, all body, shelves and shutters made in 0.8 mm virgin CRCA sheet, duly Epoxy Powder Coated. Shelves and Doors have stiffeners for extra strength. | 2  | No. |
| 10 | Pre-polished Jet Black Granite 17±1 thick mm with Chamfered Corners                                                                                                                                                                                                                     | 5  | Sqm |
| 11 | Underneath Packing (For Granite, 6mmx30 mm NEOPRENE)                                                                                                                                                                                                                                    | 20 | Rmt |

**Physics Lab: Room No - 212 (Sitting HT - 800 mm):**

| S.No. | Description of Material                                                                   | Qty      | Unit       |
|-------|-------------------------------------------------------------------------------------------|----------|------------|
|       | <b>Lab Furniture as per Layout, consisting of:</b>                                        | <b>1</b> | <b>Set</b> |
| 1     | C-Frame - Standing - Size L-705 x H-880 x D-30 mm, made of 60x30mm pipe of 2 mm thickness | 16       | No.        |
| 2     | Connecting Set of L-1500 mm for Standing height C Frame Structure                         | 4        | No.        |
| 3     | Connecting Set of L-1350 mm for Standing height C Frame Structure                         | 4        | No.        |
| 4     | Connecting Set of L-600 mm for Standing height C Frame Structure                          | 4        | No.        |
| 5     | Storage Size-L-750xD-530xH-635 mm, 1 Drawer + 2 Shutters                                  | 8        | No.        |
| 6     | Storage Size-L-750xD-530xH-635 mm, 2 Shutters, Adjustable Shelf                           | 4        | No.        |
| 7     | Storage Size-L-600xD-530xH-635 mm, 2 Shutters, Adjustable Shelf                           | 8        | No.        |

|    |                                                                                                                                                                                                                                                                                         |    |     |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
| 8  | End Cover panel for 750mm Counter Depth, with Standing Height                                                                                                                                                                                                                           | 8  | No. |
| 9  | Space Filler                                                                                                                                                                                                                                                                            | 4  | No. |
| 10 | Single Sided CRCA Electrical Raceway max L-2m, H-100 x D-75 mm Top/Wall Mounted with 3 Nos. 6 Module Cut-outs                                                                                                                                                                           | 14 | Mtr |
| 11 | Set of 5A - 1no. & 15A - 1no. Switches & Sockets with Face Plate (ANCHOR ROMA / NORISYS) without wiring                                                                                                                                                                                 | 20 | Set |
| 12 | Full Height Storage with Glass in Shutter, Size H-1980 x W-910 x D-480 with 4 shelves making 5 compartments, Snap-Shut Locking System, all body, shelves and shutters made in 0.8 mm virgin CRCA sheet, duly Epoxy Powder Coated. Shelves and Doors have stiffeners for extra strength. | 4  | No. |
| 13 | Pre-polished Jet Black Granite 17±1 thick mm with Chamfered Corners                                                                                                                                                                                                                     | 11 | Sqm |
| 14 | Underneath Packing (For Granite, 6mmx30 mm NEOPRENE)                                                                                                                                                                                                                                    | 44 | Rmt |

**Physics Lab: Room No - 213 (Standing HT - 900 mm):**

| S.No. | Description of Material                                                                   | Qty      | Unit       |
|-------|-------------------------------------------------------------------------------------------|----------|------------|
|       | <b>Lab Furniture as per Layout, consisting of:</b>                                        | <b>1</b> | <b>Set</b> |
| 1     | C-Frame - Standing - Size L-705 x H-880 x D-30 mm, made of 60x30mm pipe of 2 mm thickness | 16       | No.        |
| 2     | Connecting Set of L-1500 mm for Standing height C Frame Structure                         | 4        | No.        |
| 3     | Connecting Set of L-1350 mm for Standing height C Frame Structure                         | 4        | No.        |
| 4     | Connecting Set of L-600 mm for Standing height C Frame Structure                          | 4        | No.        |
| 5     | Storage Size-L-750xD-530xH-635 mm, 1 Drawer + 2 Shutters                                  | 8        | No.        |
| 6     | Storage Size-L-750xD-530xH-635 mm, 2 Shutters, Adjustable Shelf                           | 4        | No.        |
| 7     | Storage Size-L-600xD-530xH-635 mm, 2 Shutters, Adjustable Shelf                           | 8        | No.        |

|    |                                                                                                                                                                                                                                                                                         |    |     |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
| 8  | End Cover panel for 750mm Counter Depth, with Standing Height                                                                                                                                                                                                                           | 8  | No. |
| 9  | Space Filler                                                                                                                                                                                                                                                                            | 4  | No. |
| 10 | Single Sided CRCA Electrical Raceway max L-2m, H-100 x D-75 mm Top/Wall Mounted with 3 Nos. 6 Module Cut-outs                                                                                                                                                                           | 14 | Mtr |
| 11 | Set of 5A - 1no. & 15A - 1no. Switches & Sockets with Face Plate (ANCHOR ROMA / NORISYS) without wiring                                                                                                                                                                                 | 20 | Set |
| 12 | Full Height Storage with Glass in Shutter, Size H-1980 x W-910 x D-480 with 4 shelves making 5 compartments, Snap-Shut Locking System, all body, shelves and shutters made in 0.8 mm virgin CRCA sheet, duly Epoxy Powder Coated. Shelves and Doors have stiffeners for extra strength. | 4  | No. |
| 13 | Pre-polished Jet Black Granite 17±1 thick mm with Chamfered Corners                                                                                                                                                                                                                     | 11 | Sqm |
| 14 | Underneath Packing (For Granite, 6mmx30 mm NEOPRENE)                                                                                                                                                                                                                                    | 44 | Rmt |

**Physics Lab: Room No - 214 (Standing HT - 900 mm):**

| S.No. | Description of Material                                                                                       | Qty      | Unit       |
|-------|---------------------------------------------------------------------------------------------------------------|----------|------------|
|       | <b>Lab Furniture as per Layout, consisting of:</b>                                                            | <b>1</b> | <b>Set</b> |
| 1     | C-Frame - Standing - Size L-705 x H-880 x D-30 mm, made of 60x30mm pipe of 2 mm thickness                     | 8        | No.        |
| 2     | Connecting Set of L-1200 mm for Standing height C Frame Structure                                             | 6        | No.        |
| 3     | Legspace - 600 mm with BACK COVER PLATE                                                                       | 12       | No.        |
| 4     | End Cover panel for 750mm Counter Depth, with Standing Height                                                 | 4        | No.        |
| 5     | End Cover sheet for End-side Legspace (Full Height)                                                           | 4        | No.        |
| 6     | Single Sided CRCA Electrical Raceway max L-2m, H-100 x D-75 mm Top/Wall Mounted with 3 Nos. 6 Module Cut-outs | 8        | Mtr        |
| 7     | Set of 5A - 1no. & 15A - 1no. Switches & Sockets with Face Plate (ANCHOR ROMA / NORISYS) without wiring       | 10       | Set        |
| 8     | Pre-polished Jet Black Granite 17±1 thick mm with Chamfered Corners                                           | 6        | Sqm        |
| 9     | Underneath Packing (For Granite, 6mmx30 mm NEOPRENE)                                                          | 24       | Rmt        |

**Physics Lab: Room No - 215 (Standing HT - 900 mm):**

| S.No. | Description of Material                                                                                                       | Qty      | Unit       |
|-------|-------------------------------------------------------------------------------------------------------------------------------|----------|------------|
|       | <b>Lab Furniture as per Layout, consisting of:</b>                                                                            | <b>1</b> | <b>Set</b> |
| 1     | C-Frame - Standing - Size L-705 x H-880 x D-30 mm, made of 60x30mm pipe of 2 mm thickness                                     | 20       | No.        |
| 2     | Connecting Set of L-1500 mm for Standing height C Frame Structure                                                             | 12       | No.        |
| 3     | Connecting Set of L-1400 mm for Standing height C Frame Structure                                                             | 2        | No.        |
| 4     | Storage Size-L-1400xD-530xH-635 mm, Sink Box in Center with 2 shutters, outside closed.                                       | 2        | No.        |
| 5     | Storage Size-L-750xD-530xH-635 mm, 1 Drawer + 2 Shutters                                                                      | 16       | No.        |
| 6     | Storage Size-L-750xD-530xH-635 mm, 2 Shutters, Adjustable Shelf                                                               | 8        | No.        |
| 7     | End Cover panel for 750mm Counter Depth, with Standing Height                                                                 | 8        | No.        |
| 8     | Space Filler                                                                                                                  | 4        | No.        |
| 9     | PP Drop-in Sink, Polypropylene, Size L-560 x W-355 x D-245 mm with Sink Outlet Nipple complete with Bottle-trap and Hose Pipe | 2        | No.        |
| 10    | Three Way Spout with Swivel Swan Neck                                                                                         | 2        | No.        |
| 11    | Single Sided CRCA Electrical Raceway max L-2m, H-100 x D-75 mm Top/Wall Mounted with 3 Nos. 6 Module Cut-outs                 | 20       | Mtr        |
| 12    | Set of 5A - 1no. & 15A - 1no. Switches & Sockets with Face Plate (ANCHOR ROMA / NORISYS) without wiring                       | 28       | Set        |
| 13    | Pre-polished Jet Black Granite 17±1 thick mm with Chamfered Corners                                                           | 16       | Sqm        |
| 14    | Underneath Packing (For Granite, 6mmx30 mm NEOPRENE)                                                                          | 64       | Rmt        |

**Physics Lab: Room No - 216 (Standing HT - 900 mm):**

| S.No. | Description of Material                                                                                                                                                                                                                                                                 | Qty      | Unit       |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|
|       | <b>Lab Furniture as per Layout, consisting of:</b>                                                                                                                                                                                                                                      | <b>1</b> | <b>Set</b> |
| 1     | C-Frame - Standing - Size L-705 x H-880 x D-30 mm, made of 60x30mm pipe of 2 mm thickness                                                                                                                                                                                               | 16       | No.        |
| 2     | Connecting Set of L-1500 mm for Standing height C Frame Structure                                                                                                                                                                                                                       | 4        | No.        |
| 3     | Connecting Set of L-1350 mm for Standing height C Frame Structure                                                                                                                                                                                                                       | 4        | No.        |
| 4     | Connecting Set of L-600 mm for Standing height C Frame Structure                                                                                                                                                                                                                        | 4        | No.        |
| 5     | Storage Size-L-750xD-530xH-635 mm, 1 Drawer + 2 Shutters                                                                                                                                                                                                                                | 8        | No.        |
| 6     | Storage Size-L-750xD-530xH-635 mm, 2 Shutters, Adjustable Shelf                                                                                                                                                                                                                         | 4        | No.        |
| 7     | Storage Size-L-600xD-530xH-635 mm, 2 Shutters, Adjustable Shelf                                                                                                                                                                                                                         | 8        | No.        |
| 8     | End Cover panel for 750mm Counter Depth, with Standing Height                                                                                                                                                                                                                           | 8        | No.        |
| 9     | Space Filler                                                                                                                                                                                                                                                                            | 4        | No.        |
| 10    | Single Sided CRCA Electrical Raceway max L-2m, H-100 x D-75 mm Top/Wall Mounted with 3 Nos. 6 Module Cut-outs                                                                                                                                                                           | 14       | Mtr        |
| 11    | Set of 5A - 1no. & 15A - 1no. Switches & Sockets with Face Plate (ANCHOR ROMA / NORISYS) without wiring                                                                                                                                                                                 | 20       | Set        |
| 12    | Full Height Storage with Glass in Shutter, Size H-1980 x W-910 x D-480 with 4 shelves making 5 compartments, Snap-Shut Locking System, all body, shelves and shutters made in 0.8 mm virgin CRCA sheet, duly Epoxy Powder Coated. Shelves and Doors have stiffeners for extra strength. | 4        | No.        |
| 13    | Pre-polished Jet Black Granite 17±1 thick mm with Chamfered Corners                                                                                                                                                                                                                     | 11       | Sqm        |
| 14    | Underneath Packing (For Granite, 6mmx30 mm NEOPRENE)                                                                                                                                                                                                                                    | 44       | Rmt        |

**Physics Lab: Room No - 217 (Sitting HT - 800 mm):**

| S.No. | Description of Material                                                                                       | Qty      | Unit       |
|-------|---------------------------------------------------------------------------------------------------------------|----------|------------|
|       | <b>Lab Furniture as per Layout, consisting of:</b>                                                            | <b>1</b> | <b>Set</b> |
| 1     | C-Frame - Sitting - Size L-705 x H-775 x D-30 mm, made of 60x30mm pipe of 2 mm thickness                      | 26       | No.        |
| 2     | Connecting Set of L-1500 mm for Sitting height C Frame Structure                                              | 1        | No.        |
| 3     | Connecting Set of L-1200 mm for Sitting height C Frame Structure                                              | 13       | No.        |
| 4     | Connecting Set of L-850 mm for C Frame Structure                                                              | 3        | No.        |
| 5     | Connecting Set of L-750 mm for Sitting height C Frame Structure                                               | 1        | No.        |
| 6     | Connecting Set of L-600 mm for Sitting height C Frame Structure                                               | 5        | No.        |
| 7     | Corner Storage Size-L-850+850xD-530xH-635 mm, 1 Shutter                                                       | 3        | No.        |
| 8     | Storage Size-L-600xD-530xH-635 mm, 3 Drawers                                                                  | 4        | No.        |
| 9     | Legspace-750 mm with BACK COVER PLATE with Keyboard on Hanging Channels                                       | 3        | No.        |
| 10    | Legspace-600 mm with BACK COVER PLATE with Keyboard on Hanging Channels                                       | 27       | No.        |
| 11    | End Cover panel for 750mm Counter Depth, with Sitting Height                                                  | 6        | No.        |
| 12    | End Cover sheet for End-side Leg space (Low Height)                                                           | 6        | No.        |
| 13    | Single Sided CRCA Electrical Raceway max L-2m, H-100 x D-75 mm Top/Wall Mounted with 3 Nos. 6 Module Cut-outs | 21       | Mtr        |
| 14    | Upright Regent Shelf 2 Tier with Integrated Raceway Size L-1500 x D-300 x H-750 mm                            | 2        | No.        |
| 15    | Set of 5A - 1no. & 15A - 1no. Switches & Sockets with Face Plate (ANCHOR ROMA / NORISYS) without wiring       | 35       | Set        |
| 16    | Pre-polished Jet Black Granite 17±1 thick mm with Chamfered Corners                                           | 21       | Sqm        |
| 17    | Underneath Packing (For Granite, 6mmx30 mm NEOPRENE)                                                          | 84       | Rmt        |

**Physics Lab: Room No - 218 (Standing HT - 900 mm):**

| S.No. | Description of Material                                                                                                       | Qty      | Unit       |
|-------|-------------------------------------------------------------------------------------------------------------------------------|----------|------------|
|       | <b>Lab Furniture as per Layout, consisting of:</b>                                                                            | <b>1</b> | <b>Set</b> |
| 1     | C-Frame - Standing - Size L-705 x H-880 x D-30 mm, made of 60x30mm pipe of 2 mm thickness                                     | 20       | No.        |
| 2     | Connecting Set of L-1500 mm for Standing height C Frame Structure                                                             | 12       | No.        |
| 3     | Connecting Set of L-1400 mm for Standing height C Frame Structure                                                             | 2        | No.        |
| 4     | Storage Size-L-1400xD-530xH-635 mm, Sink Box in Center with 2 shutters, outside closed.                                       | 2        | No.        |
| 5     | Storage Size-L-750xD-530xH-635 mm, 1 Drawer + 2 Shutters                                                                      | 16       | No.        |
| 6     | Storage Size-L-750xD-530xH-635 mm, 2 Shutters, Adjustable Shelf                                                               | 8        | No.        |
| 7     | End Cover panel for 750mm Counter Depth, with Standing Height                                                                 | 8        | No.        |
| 8     | Space Filler                                                                                                                  | 4        | No.        |
| 9     | PP Drop-in Sink, Polypropylene, Size L-560 x W-355 x D-245 mm with Sink Outlet Nipple complete with Bottle-trap and Hose Pipe | 2        | No.        |
| 10    | Three Way Spout with Swivel Swan Neck                                                                                         | 2        | No.        |
| 11    | Single Sided CRCA Electrical Raceway max L-2m, H-100 x D-75 mm Top/Wall Mounted with 3 Nos. 6 Module Cut-outs                 | 20       | Mtr        |
| 12    | Set of 5A - 1no. & 15A - 1no. Switches & Sockets with Face Plate (ANCHOR ROMA / NORISYS) without wiring                       | 28       | Set        |
| 13    | Pre-polished Jet Black Granite 17±1 thick mm with Chamfered Corners                                                           | 16       | Sqm        |
| 14    | Underneath Packing (For Granite, 6mmx30 mm NEOPRENE)                                                                          | 64       | Rmt        |

**Physics Lab: Room No - 219 (Standing HT - 900 mm):**

| S.No. | Description of Material                                                                   | Qty      | Unit       |
|-------|-------------------------------------------------------------------------------------------|----------|------------|
|       | <b>Lab Furniture as per Layout, consisting of:</b>                                        | <b>1</b> | <b>Set</b> |
| 1     | C-Frame - Standing - Size L-705 x H-880 x D-30 mm, made of 60x30mm pipe of 2 mm thickness | 20       | No.        |

|    |                                                                                                                               |    |     |
|----|-------------------------------------------------------------------------------------------------------------------------------|----|-----|
| 2  | Connecting Set of L-1500 mm for Standing height C Frame Structure                                                             | 12 | No. |
| 3  | Connecting Set of L-1400 mm for Standing height C Frame Structure                                                             | 2  | No. |
| 4  | Storage Size-L-1400xD-530xH-635 mm, Sink Box in Center with 2 shutters, outside closed.                                       | 2  | No. |
| 5  | Storage Size-L-750xD-530xH-635 mm, 1 Drawer + 2 Shutters                                                                      | 16 | No. |
| 6  | Storage Size-L-750xD-530xH-635 mm, 2 Shutters, Adjustable Shelf                                                               | 8  | No. |
| 7  | End Cover panel for 750mm Counter Depth, with Standing Height                                                                 | 8  | No. |
| 8  | Space Filler                                                                                                                  | 4  | No. |
| 9  | PP Drop-in Sink, Polypropylene, Size L-560 x W-355 x D-245 mm with Sink Outlet Nipple complete with Bottle-trap and Hose Pipe | 2  | No. |
| 10 | Three Way Spout with Swivel Swan Neck                                                                                         | 2  | No. |
| 11 | Single Sided CRCA Electrical Raceway max L-2m, H-100 x D-75 mm Top/Wall Mounted with 3 Nos. 6 Module Cut-outs                 | 20 | Mtr |
| 12 | Set of 5A - 1no. & 15A - 1no. Switches & Sockets with Face Plate (ANCHOR ROMA / NORISYS) without wiring                       | 28 | Set |
| 13 | Pre-polished Jet Black Granite 17±1 thick mm with Chamfered Corners                                                           | 16 | Sqm |
| 14 | Underneath Packing (For Granite, 6mmx30 mm NEOPRENE)                                                                          | 64 | Rmt |

**Physics Lab: Room No-220 (Sitting-800 mm):**

| S.No. | Description of Material                                                                  | Qty      | Unit       |
|-------|------------------------------------------------------------------------------------------|----------|------------|
|       | <b>Lab Furniture as per Layout, consisting of:</b>                                       | <b>1</b> | <b>Set</b> |
| 1     | C-Frame - Sitting - Size L-705 x H-775 x D-30 mm, made of 60x30mm pipe of 2 mm thickness | 32       | No.        |
| 2     | Connecting Set of L-1500 mm for Sitting height C Frame Structure                         | 3        | No.        |
| 3     | Connecting Set of L-1350 mm for Sitting height C Frame Structure                         | 4        | No.        |
| 4     | Connecting Set of L-1200 mm for Sitting height C Frame Structure                         | 13       | No.        |
| 5     | Connecting Set of L-1050 mm for Sitting height C Frame Structure                         | 1        | No.        |
| 6     | Connecting Set of L-850 mm for C Frame Structure                                         | 2        | No.        |

|    |                                                                                                               |     |      |
|----|---------------------------------------------------------------------------------------------------------------|-----|------|
| 7  | Connecting Set of L-600 mm for Sitting height C Frame Structure                                               | 2   | No.  |
| 8  | Corner Storage Size-L-850+850xD-530xH-635 mm, 1 Shutter                                                       | 2   | No.  |
| 9  | Storage Size-L-750xD-530xH-635 mm, 3 Drawers                                                                  | 3   | No.  |
| 10 | Storage Size-L-600xD-530xH-635 mm, 1 Drawer + 2 Shutters                                                      | 6   | No.  |
| 11 | Storage Size-L-600xD-530xH-635 mm, 3 Drawers                                                                  | 14  | No.  |
| 12 | Storage Size-L-450xD-530xH-635 mm, 1 Drawer + 1 Shutter, Right hand side                                      | 1   | No.  |
| 13 | Legspace-750 mm with BACK COVER PLATE with Keyboard on Hanging Channels                                       | 7   | No.  |
| 14 | Legspace-600 mm with BACK COVER PLATE with Keyboard on Hanging Channels                                       | 13  | No.  |
| 15 | End Cover panel for 750mm Counter Depth, with Sitting Height                                                  | 8   | No.  |
| 16 | End Cover sheet for End-side Leg space (Low Height)                                                           | 7   | No.  |
| 17 | C' Frame Back Cover Sheet in 0.8 mm Thickness H-775 mm                                                        | 12  | Mtr. |
| 18 | Single Sided CRCA Electrical Raceway max L-2m, H-100 x D-75 mm Top/Wall Mounted with 3 Nos. 6 Module Cut-outs | 33  | Mtr  |
| 19 | Set of 5A - 1no. & 15A - 1no. Switches & Sockets with Face Plate (ANCHOR ROMA / NORISYS) without wiring       | 48  | Set  |
| 21 | LAN Point without wiring                                                                                      | 20  | No.  |
| 21 | 25mm Laminated MDF Top with 2mm thick edge banding                                                            | 26  | Sqm  |
| 22 | Underneath Packing (For Granite, 6mmx30 mm NEOPRENE)                                                          | 104 | Rmt  |

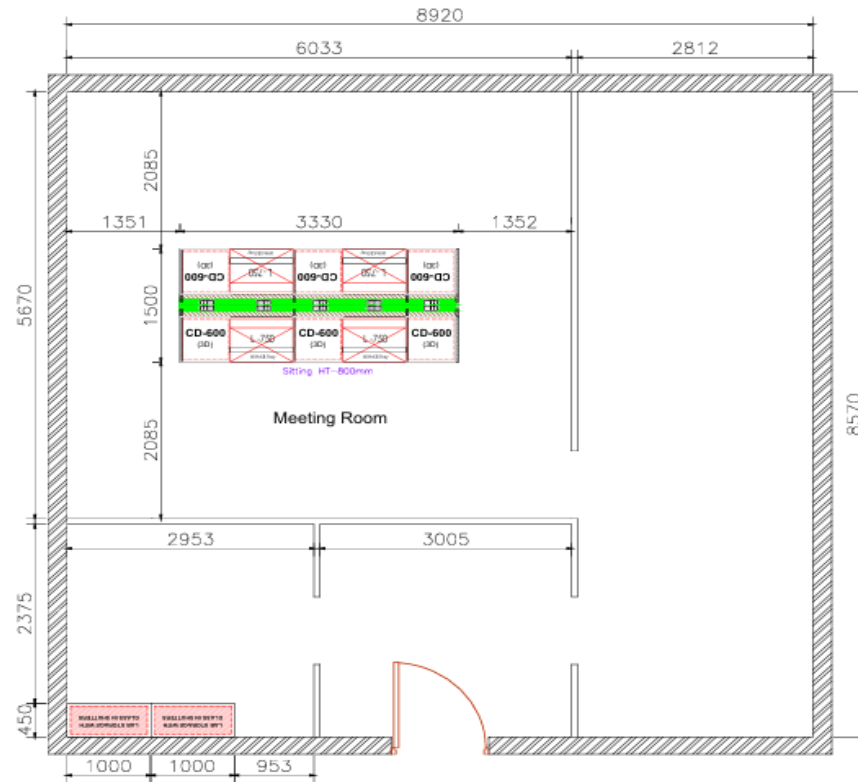
#### Physics Lab: Miscellaneous Item

| S.No. | Description of Material                                                                                                                                                          | Qty       | Unit       |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|
|       | <b>DTD cabinet consisting of:</b>                                                                                                                                                | <b>01</b> | <b>Set</b> |
| 1.    | Wall Mounted Lockable Enclosure to house Visual Presenter, Wireless Keyboard & Mouse (all supplied along with cabinet); Cabinet should be made of powder-coated CRCA Steel Sheet | 01        | Nos        |
|       | <b>Visual Presenter consisting of:</b>                                                                                                                                           | <b>01</b> | <b>Set</b> |
| 2.    | Camera Sensor: 1/4"CMOS Sensor F=2.8                                                                                                                                             | 01        | Nos        |
| 3.    | Effective pixels: Min. 8 Mega Pixel or better                                                                                                                                    |           |            |

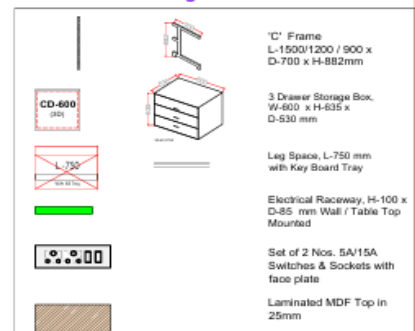
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| 4.  | Frame rate: Min. 30fps or better                                                                                                                                                                                                                                                                          |  |  |
| 5.  | Inbuilt microphone: Should available inbuilt Microphone                                                                                                                                                                                                                                                   |  |  |
| 6.  | Video Output: It should provide the following resolutions<br>HDMI: Full HD (1080p), HD (720p), VGA (480p); USB: Full HD (1080p), SXGA (1280 x 1024), XGA (1024 x 768), SVGA (800 x 600), VGA (640 x 480), QVGA (320 x 240); VGA: HD (1360 x 768), WXGA (1280 x 800), SXGA (1280 x 1024), XGA (1024 x 768) |  |  |
| 7.  | Shooting area: Minimum A3 (420MM x 297MM) or better to share information more flexibility.                                                                                                                                                                                                                |  |  |
| 8.  | Zooming capability: Minimum 10x Zooming Capability or better to capture clear and loss-less magnified image.                                                                                                                                                                                              |  |  |
| 9.  | Split screen: Device should allow the live image of an object being captured to be displayed alongside an image stored on the external memory.                                                                                                                                                            |  |  |
| 10. | Focus adjustment: It should have option of Auto/ Manual Focus Adjustment                                                                                                                                                                                                                                  |  |  |
| 11. | LED light: Two Type LED system Top LED & Side LED strip                                                                                                                                                                                                                                                   |  |  |
| 12. | White Balance: Auto                                                                                                                                                                                                                                                                                       |  |  |
| 13. | LED Light Brightness Adjustment: Should support LED Light Brightness Adjustment & Dimming capability                                                                                                                                                                                                      |  |  |
| 14. | Image rotation: 90°, 180°, 270°                                                                                                                                                                                                                                                                           |  |  |
| 15. | Multimedia functionality: Freeze, Focus Adjustment, LED on/off, Brightness Adjustment, Contrast, Negative, Black and While, Split Screen, Slideshow, Video Capture, Flicker Reduction, Image Rotation(0/180degrees), Source (PC/SD Card), Image Mirror, Picture in Picture.                               |  |  |
| 16. | Interactive features: Should have Touch screen support to perform interactive features                                                                                                                                                                                                                    |  |  |
| 17. | SD Card: Should support SD/SDHC card with min. 32 GB Capability or more                                                                                                                                                                                                                                   |  |  |

|     |                                                                                                                                                                                                                                                                                    |  |  |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| 18. | File Format: JPEG (1920 x 1080), VGA (720p)                                                                                                                                                                                                                                        |  |  |
| 19. | Connectivity port: 1x VGA In, 1x VGA out, 1x HDMI out, 1x USB, 1x SD Card                                                                                                                                                                                                          |  |  |
| 20. | Safety: Should have Kensington lock (K-Lock)                                                                                                                                                                                                                                       |  |  |
| 21. | Portability: Device should portable structure allows users to fold and easy to store.                                                                                                                                                                                              |  |  |
| 22. | Advance Features: PC Less Annotation, Image roaming drag Region zoom in, Split Screen function, Camera Rotation, Device Portability, Microscope Capability                                                                                                                         |  |  |
| 23. | Remote control: Device should available with fully functional remote control                                                                                                                                                                                                       |  |  |
| 24. | Annotation: Device should have on-board Annotation feature without using any other computing device.                                                                                                                                                                               |  |  |
| 25. | On-screen Toolbar: Should have on-Screen toolbar to perform Auto focus, Magnifier, zoom in/out, Rotate, Mirror, Freeze, Division, Snap, Record, File Browse, PIP, Annotate, Settings                                                                                               |  |  |
| 26. | Key on visual presenter: It should have minimum Zoom in/out, Res/Exit, Menu, VGA/HDMI, Light, Auto/OK, UP/Down buttons or more for ease of access                                                                                                                                  |  |  |
| 27. | Certification: BIS, CE, RoHS, FCC and BIS certification of Visual Presenter required for the last 3 years with the manufacturing facility in India. Quoted model should be included in the BIS license before the Bid submission and should be verifiable online from BIS website. |  |  |
| 28. | The bid specific OEM authorization is must attached for the technical bid qualification.                                                                                                                                                                                           |  |  |

# Layouts of Renovation / Upgradation related Works of Physics Laboratories



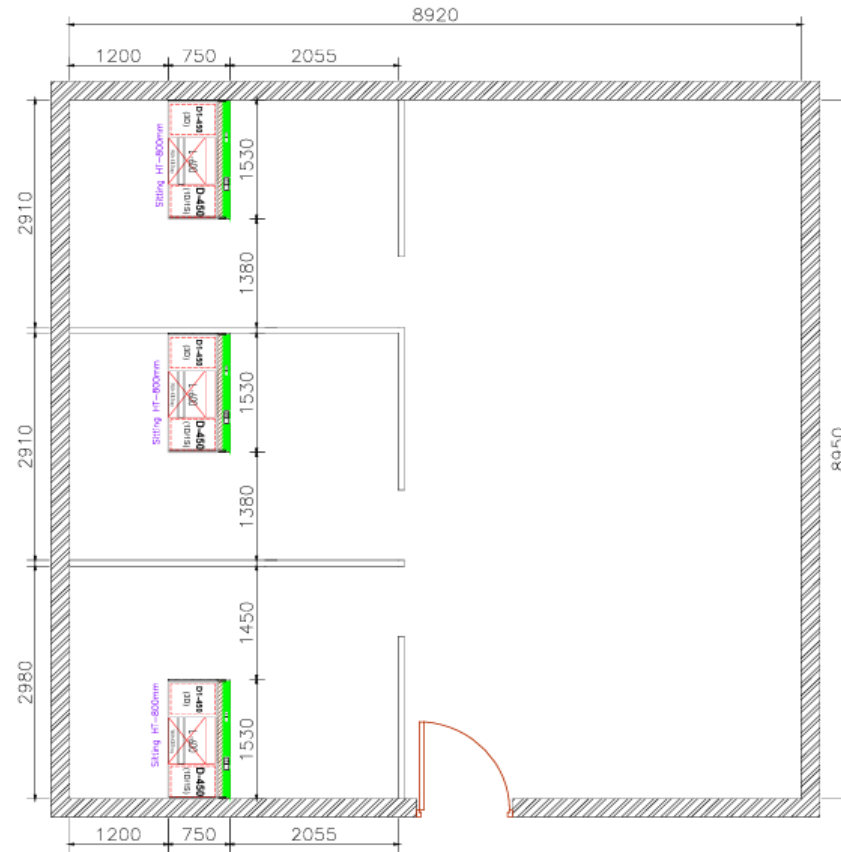
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### Legend

|  |  |                                                                    |
|--|--|--------------------------------------------------------------------|
|  |  | C" Frame<br>L-1500/1200 / 900 x<br>D-700 x H-882mm                 |
|  |  | 1 Drawer / 1 Shutter<br>Storage Box, W-450 mm                      |
|  |  | 3 Drawer Storage Box,<br>W-450 mm                                  |
|  |  | Leg Space, L-600 mm<br>with Key Board Tray                         |
|  |  | Leg Space, L-750 mm<br>with Footrest                               |
|  |  | Electrical Raceway, H-100 x<br>D-85 mm Wall / Table Top<br>Mounted |
|  |  | Set of 2 Nos. 5A/15A<br>Switches & Sockets with<br>face plate      |
|  |  | Melamine Top In Mdf in<br>25mm Thickness                           |

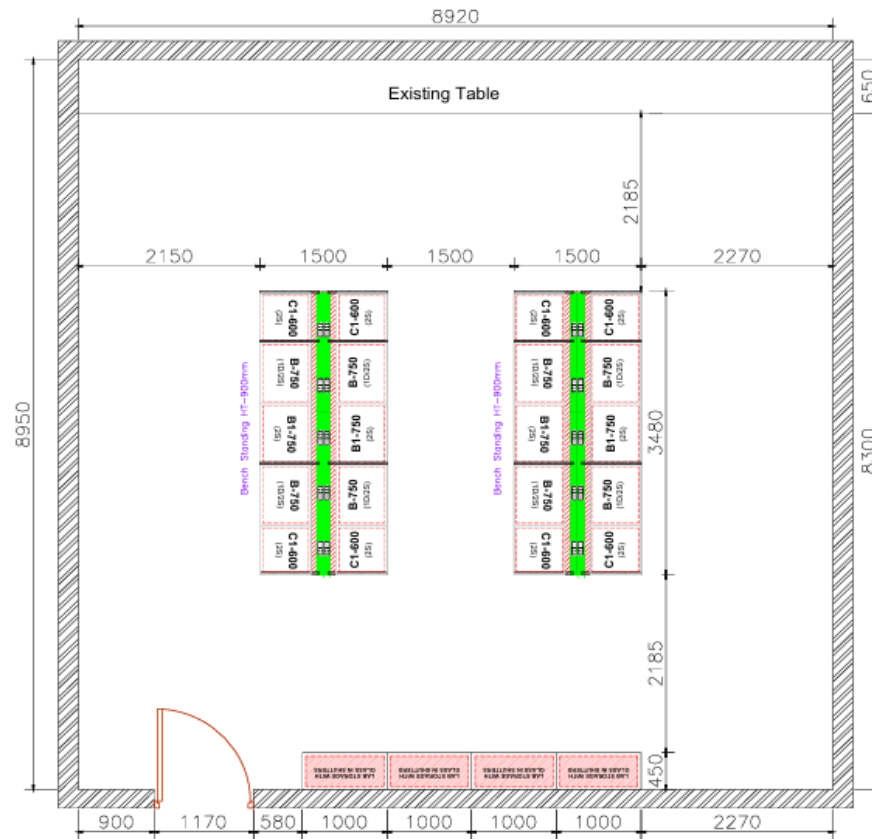
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## Room No - 213

### Legend

|  |  |                                         |                                                                          |
|--|--|-----------------------------------------|--------------------------------------------------------------------------|
|  |  | C1-600<br>(25)                          | 2 Shutters Storage Box,<br>W-600 mm x D-530 x<br>H-635 mm                |
|  |  | B1-750<br>(25)                          | 2 Shutters Storage<br>Box, W-750 x H-635 x<br>D-530 mm                   |
|  |  | B-750<br>(10/35)                        | 1 Drawer / 2 Shutters<br>Storage Box, W-750 x<br>H-635 x D-530 mm        |
|  |  | S-750<br>(25)                           | Sink Unit with 2 Shutters<br>Box, W-750 mm x D-530<br>x H-635 mm         |
|  |  | LAB STORAGE WITH<br>GLASS SHUTTERS      | Lab storage with Glass<br>Shutters<br>H-1980, W=900, D=450mm             |
|  |  | CHEMICAL STORAGE WITH<br>GLASS SHUTTERS | Chemical storage with<br>provision for ducting<br>H-1800, W=900, D=450mm |
|  |  | ELECTRICAL RACEWAY                      | Electrical Raceway, H-100 x<br>D-85 mm Wall / Table Top<br>Mounted       |
|  |  | SWITCHES & SOCKETS                      | Set of 2 Nos. 5A/15A<br>Switches & Sockets with<br>face plate            |
|  |  | Z-BLACK GRANITE                         | Z-Black Granite of 17+/- 1<br>mm thickness with<br>Packing               |

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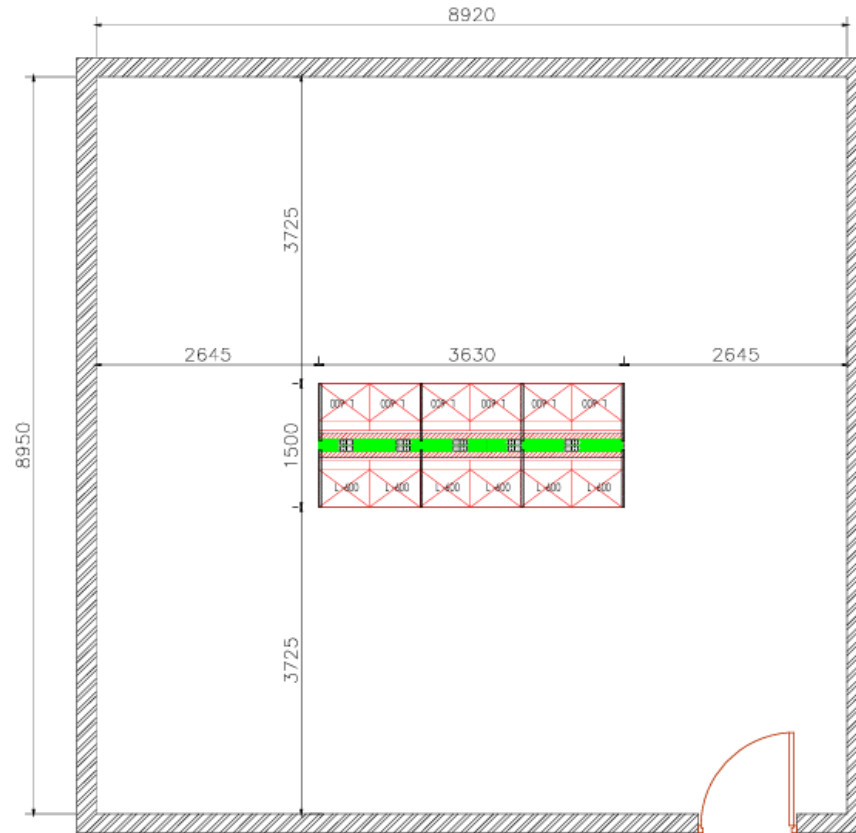
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Room No - 214

### Legend

|  |                                                                    |
|--|--------------------------------------------------------------------|
|  | 'C' Frame<br>L-1500/1200 / 900 x<br>D-700 x H-982mm                |
|  | Leg Space, L-600 mm<br>with Footrest                               |
|  | Electrical Raceway, H-100 x<br>D-85 mm Wall / Table Top<br>Mounted |
|  | Set of 2 Nos. 5A/15A<br>Switches & Sockets with<br>face plate      |
|  | Z-Black Granite of 17+/- 1<br>mm thickness with<br>Packing         |

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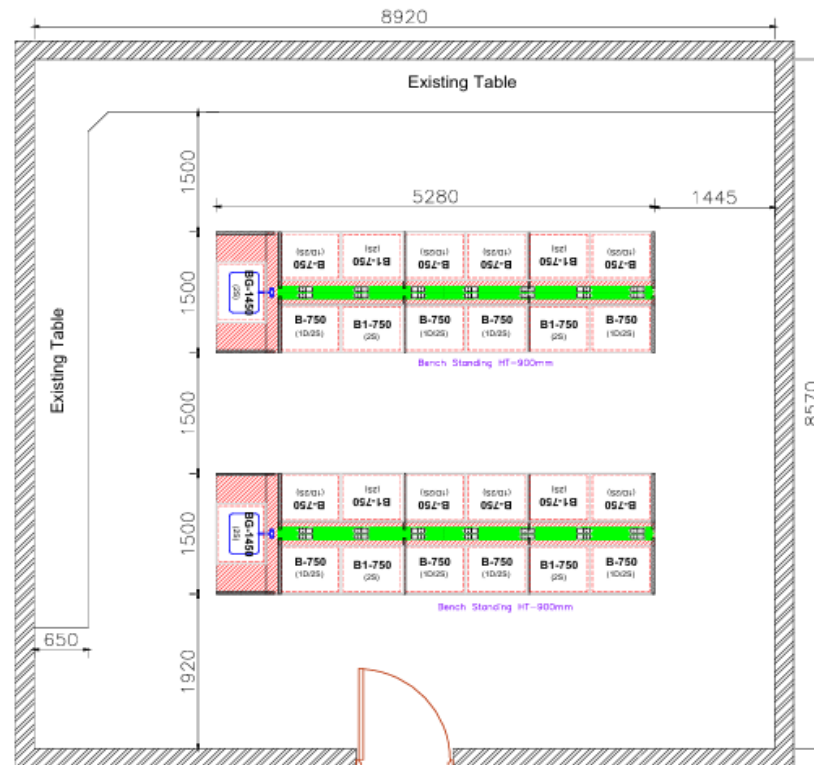
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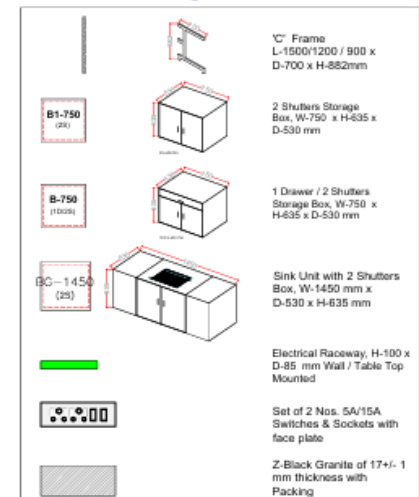
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### Legend



## Room No - 215

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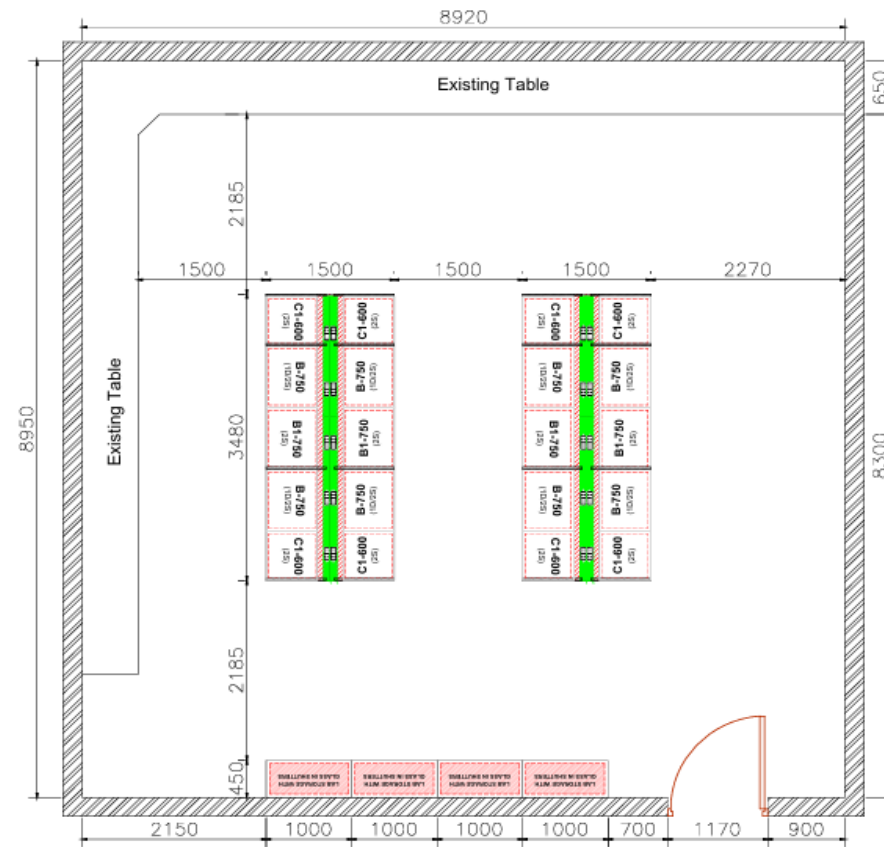
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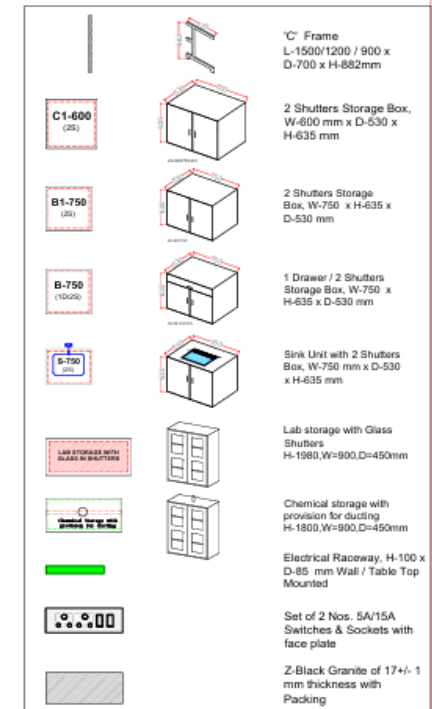
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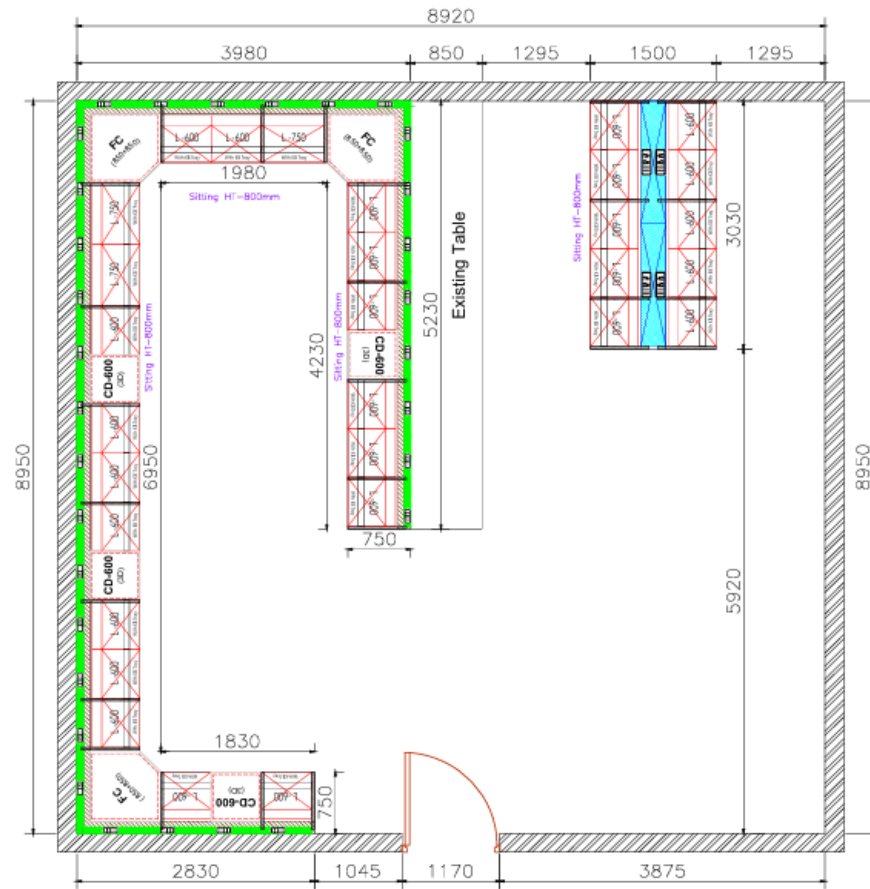
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### Legend

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|  |  | C-Frame<br>L-1500/1200 / 900 x<br>D-700 x H-882mm                  |
|  |  | 3 Drawer Storage Box,<br>W-600 x H-635 x<br>D-530 mm               |
|  |  | Corner Box with 1<br>Shutter, W-850x850<br>H-635 x D-530 mm        |
|  |  | Leg Space, L-600 mm<br>with Key Board Tray                         |
|  |  | Leg Space, L-750 mm<br>with Key Board Tray                         |
|  |  | Electrical Raceway, H-100 x<br>D-85 mm Wall / Table Top<br>Mounted |
|  |  | Set of 2 Nos. 5A/15A<br>Switches & Sockets with<br>face plate      |
|  |  | Melamine Top In Mdf in<br>25mm Thickness                           |
|  |  | 2 Tier Regent Rack<br>of Length<br>L-900/1050/1200/1500 mm         |

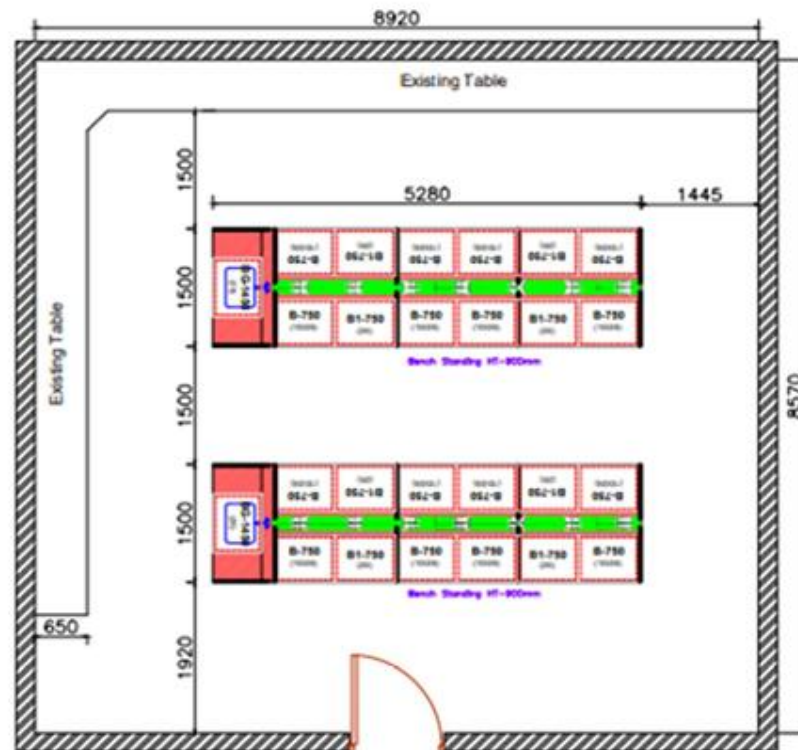
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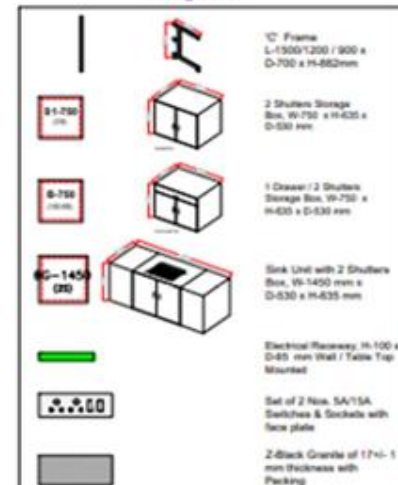
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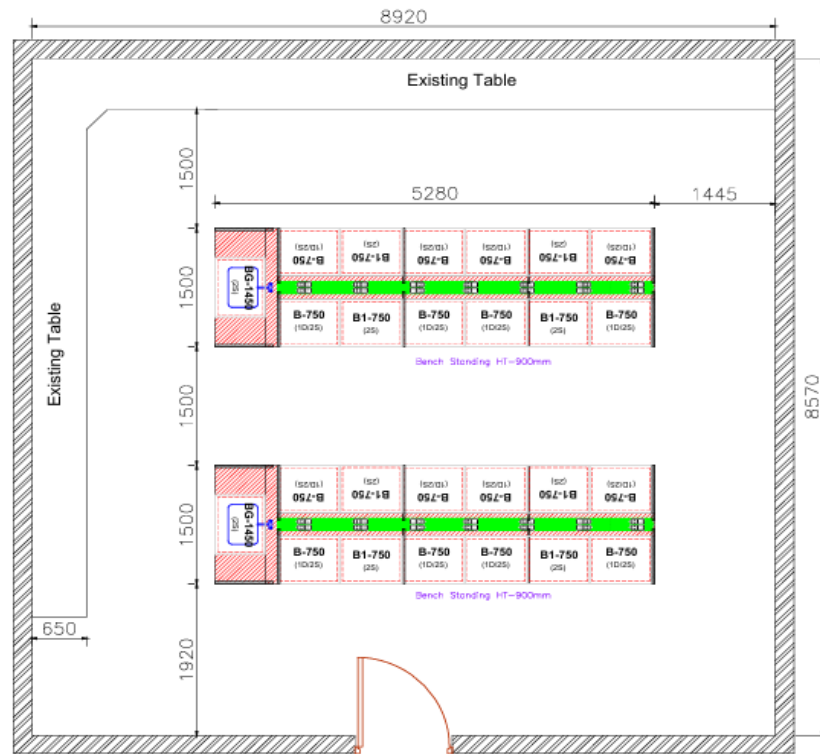
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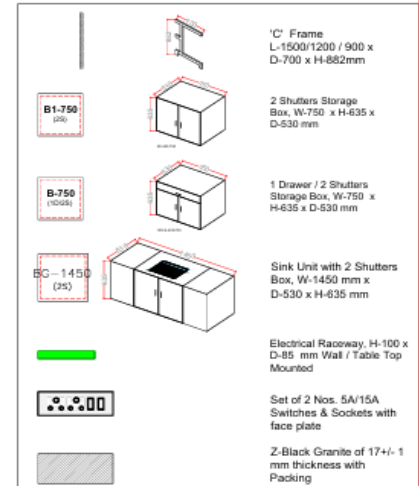
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|          | LABORATORY LAYOUT |      | LABORATORY LAYOUT |      | LABORATORY LAYOUT |      |
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| DATE     | DATE              | DATE | DATE              | DATE | DATE              | DATE |



Room No - 219

### Legend



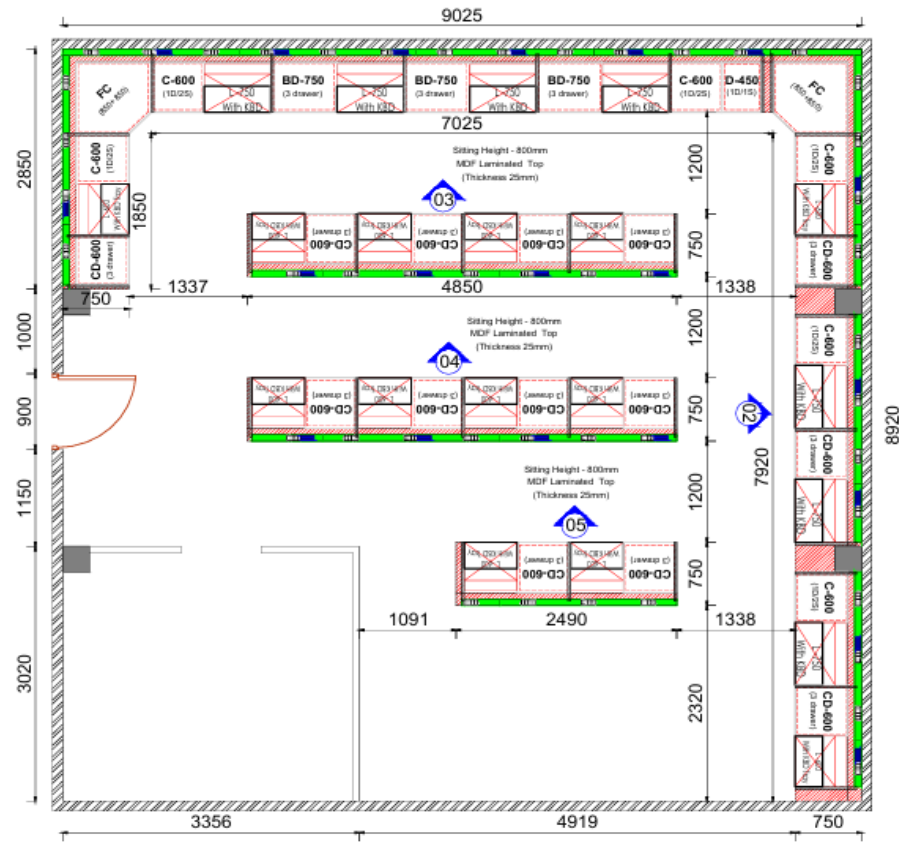
- NOTES:-
1. ALL DIMENSIONS TO BE READ NOT TO BE SCALED
  2. THIS DRAWING SUPERCEDES ALL OTHER PREVIOUS DRAWING
  3. ALL DIMENSIONS ARE IN MM. EXCEPT OTHERWISE MENTIONED
  4. ANY AMBIGUITY IN THE DRAWING MUST BE BROUGHT TO NOTICE BEFORE THE COMMENCEMENT OF RELEVANT ITEMS OF WORK.
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| SHEET<br>TITLE | CLIENT | PROJECT           | REV. SUFFIX |  |
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|                |        | LABORATORY LAYOUT |             |  |

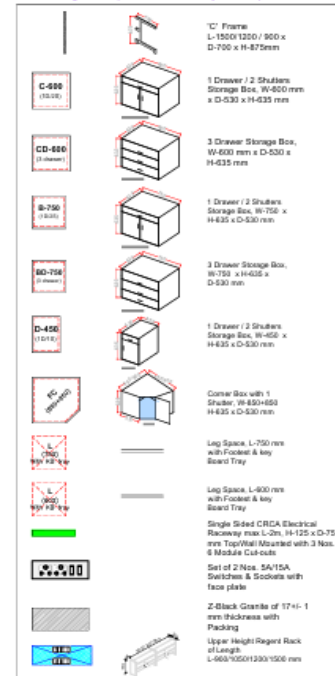
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| SCALE | DATE        | DRAWN BY | CHECKED BY |
|-------|-------------|----------|------------|
| N.T.S | 23 JAN 2023 | SAMIT    |            |



Room No-220

Legend (C-Frame System)



- NOTES:-
1. ALL DIMENSIONS TO BE READ NOT TO BE SCALED
  2. THIS DRAWING SUPERCEDES ALL OTHER PREVIOUS DRAWING
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| PROJECT     | KOTA UNIVERSITY   |
|-------------|-------------------|
| CLIENT      | KOTA UNIVERSITY   |
| SHEET TITLE | LABORATORY LAYOUT |
| REV. SUFFIX |                   |

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| SCALE                                                                                                                                                                                                                                                                                                                                                                                                  | DATE        | DRAWN BY | CHECKED BY |
| N.T.S                                                                                                                                                                                                                                                                                                                                                                                                  | 22 AUG 2024 | SAVIT    |            |

| REVISION NO. | RD       |
|--------------|----------|
| DWG. NO.     | SDL-0001 |

## 2. Chemistry Laboratories:

"C" frame system-a SEFA-10, 2016 certified compliant system shall be constructed using a 60 mm x 30 mm rectangular pipe of 2 mm thickness. The Frame does not have any front vertical legs, which provides a much orderly look. It comes with a leveler at the bottom, so that unevenness of any floor can be ironed out. Horizontal Connecting Rods are removable and can be constructed in any width according to preference. Back Panels are removable and are used to cover the utility lines going on the back. They can be easily removed to approach the service area for maintenance. All Hanging Storages are:

- 100% Epoxy Powder Coated CRCA Sheet, made on CNC Machines, Body in 0.8 mm thick, Shutters & Drawers in Sandwich Construction
- Box Sizes - L-1400/750/600/450/Corner-850 mm, H-635 mm, Depth 530 mm
- Table Heights -Standing Height - 900 mm, Sitting Height - 800 mm
- Hardware: Telescopic Channels - Hettich, Hinges - Hettich, Lock - Hettich/Ozone, Handles - Solid SS-304
- Electrical trunk box - 1.0 mm thick virgin CRCA sheet duly powder coated.
- Electrical Sockets - Anchor Roma / Norisys / or Equivalent Make.

### Chemistry Lab: Room No - 118:

| S.No. | Description of Material                                                                   | Qty      | Unit       |
|-------|-------------------------------------------------------------------------------------------|----------|------------|
|       | <b>Lab Furniture as per Layout, consisting of:</b>                                        | <b>1</b> | <b>Set</b> |
| 1     | C-Frame - Standing - Size L-705 x H-880 x D-30 mm, made of 60x30mm pipe of 2 mm thickness | 35       | No.        |
| 2     | Connecting Set of L-1500 mm for Standing height C Frame Structure                         | 10       | No.        |
| 3     | Connecting Set of L-1200 mm for Standing height C Frame Structure                         | 4        | No.        |
| 4     | Connecting Set of L-900 mm for Standing height C Frame Structure                          | 3        | No.        |
| 5     | Connecting Set of L-850 mm for C Frame Structure                                          | 2        | No.        |
| 6     | Connecting Set of L-750 mm for Standing height C Frame Structure                          | 3        | No.        |
| 7     | Connecting Set of L-600 mm for Standing height C Frame Structure                          | 2        | No.        |
| 8     | Connecting Set of L-450 mm for Standing height C Frame Structure                          | 4        | No.        |
| 9     | Sink Storage Size-L-900xD-530xH-635 mm, 2 Shutters with False Facia                       | 2        | No.        |
| 10    | Corner Sink Storage Size-L-850+850xD-530xH-635 mm, 1 Shutter                              | 2        | No.        |
| 11    | Storage Size-L-750xD-530xH-635 mm, 1 Drawer + 2 Shutters                                  | 20       | No.        |

|    |                                                                                                                               |     |     |
|----|-------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| 12 | Storage Size-L-600xD-530xH-635 mm, 1 Drawer + 2 Shutters                                                                      | 9   | No. |
| 13 | Storage Size-L-450xD-530xH-635 mm, 1 Drawer + 1 Shutter, Right hand side                                                      | 3   | No. |
| 14 | Storage Size-L-450xD-530xH-635 mm, 1 Drawer + 1 Shutter, Left hand side                                                       | 3   | No. |
| 15 | Leg space - 750 mm with BACK COVER PLATE                                                                                      | 3   | No. |
| 16 | Leg space - 600 mm with BACK COVER PLATE                                                                                      | 1   | No. |
| 17 | End Cover panel for 750mm Counter Depth, with Standing Height                                                                 | 4   | No. |
| 18 | End Cover panel for 900mm Counter Depth, with Standing Height                                                                 | 4   | No. |
| 19 | End Cover sheet for End-side Leg space (Full Height)                                                                          | 1   | No. |
| 21 | Space Filler                                                                                                                  | 6   | No. |
| 21 | PP Drop-in Sink, Polypropylene, Size L-560 x W-355 x D-245 mm with Sink Outlet Nipple complete with Bottle-trap and Hose Pipe | 4   | No. |
| 22 | Three Way Spout with Swivel Swan Neck                                                                                         | 4   | No. |
| 23 | Pegboard - Acrylic with 23 Pegs (600 x 600mm)                                                                                 | 2   | No. |
| 24 | 2-way Eye Wash Indian make                                                                                                    | 2   | No. |
| 25 | 4 Way Gas Valve, 90 degrees                                                                                                   | 3   | No. |
| 26 | Single Sided CRCA Electrical Raceway max L-2m, H-100 x D-75 mm Top/Wall Mounted with 3 Nos. 6 Module Cut-outs                 | 6   | Mtr |
| 27 | Regent Shelf 2 Tier, Size L-1500 x D-300 x H-650 mm                                                                           | 1   | No. |
| 28 | Reagent Shelf 2 Tier, Size L-900 x D-300 x H-650 mm                                                                           | 2   | No. |
| 29 | Set of 5A - 1no. & 15A - 1no. Switches & Sockets with Face Plate (ANCHOR ROMA / NORISYS) without wiring                       | 15  | Set |
| 30 | Pre-polished Jet Black Granite 17±1 thick mm with Chamfered Corners                                                           | 27  | Sqm |
| 31 | Underneath Packing (For Granite, 6mmx30 mm NEOPRENE)                                                                          | 108 | Rmt |

**Chemistry Lab: Room No - 305:**

| S. No. | Description of Material                                                                                                                                                                                       | Qty      | Unit       |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|
|        | <b>Lab Furniture as per Layout, consisting of:</b>                                                                                                                                                            | <b>1</b> | <b>Set</b> |
| 1      | Reagent Shelf 2 Tier, Size L-1200 x D-300 x H-650 mm                                                                                                                                                          | 4        | No.        |
| 2      | Reagent Shelf 2 Tier, Size L-600 x D-300 x H-650 mm                                                                                                                                                           | 4        | No.        |
| 3      | Set of 5A - 1no. & 15A - 1no. Switches & Sockets with Face Plate (ANCHOR ROMA / NORISYS) without wiring                                                                                                       | 16       | Set        |
| 4      | 4 Way Gas Valve, 90 degrees                                                                                                                                                                                   | 8        | No.        |
| 5      | Overhead Storage Size-L-750xD-375xH-675 mm, openable shutters with Glass                                                                                                                                      | 6        | No.        |
| 6      | Open type Storage Rack of Size L-910x D-400xH-2100 mm, made in 40x40x1.5 mm solid sheet angle & Shelves in 0.8mm thickness with Stiffener, Duly Powder Coated (6 ADJUSTABLE shelves, making 5 compartments)   | 1        | No.        |
| 7      | Full Height Fume Hood (CAV) Overall Dimension- L- 1800 x D-900 x H - 2400 mm, Upper Structure made of Heavy Duty CRCA / GI Outer Dimension - 1800 x 900 x 1500 mm. Inside Working Volume- 1550 x 740 x 1200mm | 1        | No.        |
| 8      | 2 Nos. Under Counter Storages made in CRCA Powder Coated, Size- L- 900 x D- 530 x H- 725 mm with Casters                                                                                                      | 1        | No.        |
| 9      | Robust Heavy-Duty Frame with Connecting Sets & Covering Plates to take load of Fume Hood Over structure. Overall size- L- 1800 x D-850 x H-900 mm                                                             | 1        | No.        |
|        | SPECIFICATIONS:                                                                                                                                                                                               |          |            |
|        | Aerodynamic, Floor mounted                                                                                                                                                                                    |          |            |
|        | Low Constant Volume (for A.C. environment)                                                                                                                                                                    |          |            |
|        | Epoxy Powder Coated CRCA Structure                                                                                                                                                                            |          |            |
|        | Material ( <b>Superstructure</b> )<br>1.0 mm thickness for all sheet metal paneling<br>1.5 mm for corner post                                                                                                 |          |            |

|  |                                                                                                                                                                                                                                                                                   |  |  |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|  | 1.2 mm for back Pillers                                                                                                                                                                                                                                                           |  |  |
|  | Material ( <b>Interior</b> ) - Chemical & Heat Resistant, Fire Retardant, Smooth Finish, Easily Cleanable Panels made out of Phenolic Resin Laminate - 6mm thick chemical resistant                                                                                               |  |  |
|  | Easily openable <b>hinged Top Panel</b> for easy access to Flow Control Valve and Electrical Lighting fixtures for maintenance.                                                                                                                                                   |  |  |
|  | Triangular profiled <b>Corner Post</b> placed on Left- and Right-Hand Side of the Fume hood, housing the utility line fittings and electrical receptacles                                                                                                                         |  |  |
|  | <b>Airfoil</b> - Aerodynamic Design, horizontal fixed airfoil mounted on the work top made of SS-304 with PTFE coating                                                                                                                                                            |  |  |
|  | <b>Worktop</b> - Jet Black Granite - 17± 1 mm with Skirting with Nylon Packing.                                                                                                                                                                                                   |  |  |
|  | Worktop to have sink, sealed with silicon sealant for drainage with PP tap on left and right back side of the worktop. Sink will have hose pipe for drainage.                                                                                                                     |  |  |
|  | <b>Vertical rising sash counter</b> of excellent quality toughened glass (Tempered Glass) of thickness minimum 4/5 mm balanced with CHAIN & SPROCKET and counter weight system. Smooth and light sash operation. Clear openable height of 700mm.                                  |  |  |
|  | <b>Dry and wet services</b> - Remotely operated Colour coded Brass Needle Valves for fine control over utilities (as per DIN 12920 norms) Total 03 nos. service valves with PU plumbing with 6 mm internal dia, withstand up to 15 Kgf pressure. 3 LHS: 2 for gas and 1 for water |  |  |
|  | Openable top panel for easy maintenance of tube light and flow control valves. Triangular service panel for maintenance of utility valves and tubing.                                                                                                                             |  |  |
|  | <b>Internal Nozzles</b> - Brass powder coated fittings staggered in the fume hood to avoid the intermingling of the flexible tubes. Also, the taps are to be tapered in shape to use with flexible tubing of sizes from ¼” to ½” in dia, to provide greater flexibility.          |  |  |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |     |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
|    | <b>Electrical utilities</b> - Minimum 3 electric sockets (220V, 6/16A, 50 Hz) of reputed make e.g., Norisys /North-West/ Havells etc. (2 right sides). Provision for Optional 2 Nos. Industrial Sockets with MCB. Light switch to be separate. Cables and wires are fire retardant grade.                                                                                                                                                                                                                                                        |   |     |
|    | <b>Lighting</b> - LED Light with vapour-proof fitting for proper illumination.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |     |
|    | The electrical wiring to have <b>built-in starter</b> suitable to blower motor capacity.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |     |
|    | Easy access of cables from fume hood to electrical sockets to be provided                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |     |
|    | <b>Base cabinet</b> will be of CRCA, powder coated and standing on a heavy duty "C" FRAME Structure to receive the fume hood at its top. It will have following features:<br><ul style="list-style-type: none"> <li>• Internal special chemical resistant material lining to the cabinet walls.</li> <li>• Complete chemical resistant cabinet construction</li> <li>• One removable horizontal partition to store chemicals</li> <li>• Cabinets on castors</li> <li>• Locking system for the base cabinet doors with Rotary Catcher.</li> </ul> |   |     |
|    | Level adjusting screws - Made of SS Bolts to adjust the fume hood level by +10 mm.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |     |
|    | <b>Exhaust port</b> design to ensure that the fumes are exhausted smoothly without any turbulence at the exhaust port. Also, it would ensure low noise level. Dia. 200/250/300 mm                                                                                                                                                                                                                                                                                                                                                                |   |     |
|    | <b>Flow control valve</b> to regulate airflow.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |     |
|    | Noise Level <70dB at 1 meter from fume hood.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |     |
| 10 | Centrifugal Fan with Housing in PP Construction & suitable stand in MS Zinc Plating with Powder Coating.<br>Non FLP Motor: 2 HP 1400 RPM Inlet/Outlet Dia: 250mm<br>PP Molded Impeller Dia: 315mm<br>Maximum CFM: 1100 @ 0 WCMM Static Pressure<br>Minimum CFM: 400 @ 35 WCMM Static Pressure                                                                                                                                                                                                                                                    | 1 | No. |

|    |                                                                                                                                                                                                                                                                                     |    |     |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|    | Motor make: IE2 (Non FLP), Crompton Greaves / Bharat Bijlee/Hindustan make whichever available<br>DB level: 70 Approx                                                                                                                                                               |    |     |
| 11 | Blower Stand to support vertically standing Chimney at the exhaust port of the blower                                                                                                                                                                                               | 1  | No. |
| 12 | Cu. Flex. Cable 2.5 Sqm x 4 Core of reputed brand (LAPP / FINOLEX / POLYCAB / HAVELLS or equivalent) from Fume Hood Control Panel to Blower or Spot Extractor/Ductable Chemical Storage's Switch to Blower.                                                                         | 15 | Rmt |
| 13 | Polypropylene Glass Lined Sheet (PP-GL) and Fiber Reinforced Polyester (FRP) Ducting - Rigid Ducting of PP-GL (Thickness 2 mm) + FRP (Thickness 1 mm), along with Flexible ducting (wherever required), complete with flanges, bends, T-connectors, damper transition, clamps, etc. | 15 | Sqm |
|    | Ducting quantity is considered as standard consumption only, actual billed will be as per site measurement                                                                                                                                                                          |    |     |

**Chemistry Lab: Room No - 306:**

| S.No. | Description of Material                                                                                                                                                                                     | Qty      | Unit       |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|
|       | <b>Lab Furniture as per Layout, consisting of:</b>                                                                                                                                                          | <b>1</b> | <b>Set</b> |
| 1     | Reagent Shelf 2 Tier, Size L-1200 x D-300 x H-650 mm                                                                                                                                                        | 4        | No.        |
| 2     | Reagent Shelf 2 Tier, Size L-600 x D-300 x H-650 mm                                                                                                                                                         | 4        | No.        |
| 3     | Set of 5A - 1no. & 15A - 1no. Switches & Sockets with Face Plate (ANCHOR ROMA / NORISYS) without wiring                                                                                                     | 16       | Set        |
| 4     | 4 Way Gas Valve, 90 degrees                                                                                                                                                                                 | 8        | No.        |
| 5     | Overhead Storage Size-L-750xD-375xH-675 mm, openable shutters with Glass                                                                                                                                    | 6        | No.        |
| 6     | Open type Storage Rack of Size L-910x D-400xH-2100 mm, made in 40x40x1.5 mm solid sheet angle & Shelves in 0.8mm thickness with Stiffener, Duly Powder Coated (6 ADJUSTABLE shelves, making 5 compartments) | 1        | No.        |
| 7     | Full Height Fume Hood (CAV) Overall Dimension- L- 1800 x D-900                                                                                                                                              | 1        | No.        |

|   |                                                                                                                                                                                           |   |     |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
|   | x H - 2400 mm, Upper Structure made of Heavy Duty CRCA / GI<br>Outer Dimension - 1800 x 900 x 1500 mm. Inside Working Volume-<br>1550 x 740 x 1200mm                                      |   |     |
| 8 | 2 Nos. Under Counter Storages made in CRCA Powder Coated,<br>Size- L- 900 x D- 530 x H- 725 mm with Casters                                                                               | 1 | No. |
| 9 | Robust Heavy-Duty Frame with Connecting Sets & Covering Plates<br>to take load of Fume Hood Over structure. Overall size- L- 1800 x<br>D-850 x H-900 mm                                   | 1 | No. |
|   | SPECIFICATIONS -                                                                                                                                                                          |   |     |
|   | Aerodynamic, Floor mounted                                                                                                                                                                |   |     |
|   | Low Constant Volume (for A.C. environment)                                                                                                                                                |   |     |
|   | Epoxy Powder Coated CRCA Structure                                                                                                                                                        |   |     |
|   | Material ( <b>Superstructure</b> )<br>1.0 mm thickness for all sheet metal paneling<br>1.5 mm for corner post<br>1.2 mm for back Pillers                                                  |   |     |
|   | Material ( <b>Interior</b> ) - Chemical & Heat Resistant, Fire Retardant,<br>Smooth Finish, Easily Cleanable Panels made out of Phenolic Resin<br>Laminate - 6mm thick chemical resistant |   |     |
|   | Easily openable <b>hinged Top Panel</b> for easy access to Flow Control<br>Valve and Electrical Lighting fixtures for maintenance.                                                        |   |     |
|   | Triangular profiled <b>Corner Post</b> placed on Left- and Right-Hand<br>Side of the Fume hood, housing the utility line fittings and electrical<br>receptacles                           |   |     |
|   | <b>Airfoil</b> - Aerodynamic Design, horizontal fixed airfoil mounted on<br>the work top made of SS-304 with PTFE coating                                                                 |   |     |
|   | <b>Worktop</b> - Jet Black Granite - 17± 1 mm with Skirting with Nylon<br>Packing.                                                                                                        |   |     |
|   | Worktop to have sink, sealed with silicon sealant for drainage with<br>PP tap on left and right back side of the worktop. Sink will have<br>hose pipe for drainage.                       |   |     |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|  | <b>Vertical rising sash counter</b> of excellent quality toughened glass (Tempered Glass) of thickness minimum 4/5 mm balanced with CHAIN & SPROCKET and counter weight system. Smooth and light sash operation. Clear openable height of 700mm.                                                                                                                                                                                        |  |  |
|  | <b>Dry and wet services</b> - Remotely operated Colour coded Brass Needle Valves for fine control over utilities (as per DIN 12920 norms) Total 03 nos. service valves with PU plumbing with 6 mm internal dia, withstand up to 15 Kgf pressure. 3 LHS: 2 for gas and 1 for water                                                                                                                                                       |  |  |
|  | Openable top panel for easy maintenance of tube light and flow control valves. Triangular service panel for maintenance of utility valves and tubing.                                                                                                                                                                                                                                                                                   |  |  |
|  | <b>Internal Nozzles</b> - Brass powder coated fittings staggered in the fume hood to avoid the intermingling of the flexible tubes. Also, the taps are to be tapered in shape to use with flexible tubing of sizes from ¼” to ½” in dia, to provide greater flexibility.                                                                                                                                                                |  |  |
|  | <b>Electrical utilities</b> - Minimum 3 electric sockets (220V, 6/16A, 50 Hz) of reputed make e.g., Norisys /North-West/ Havells etc. (2 right sides). Provision for Optional 2 Nos. Industrial Sockets with MCB. Light switch to be separate. Cables and wires are fire retardant grade.                                                                                                                                               |  |  |
|  | <b>Lighting</b> - LED Light with vapour-proof fitting for proper illumination.                                                                                                                                                                                                                                                                                                                                                          |  |  |
|  | The electrical wiring to have <b>built-in starter</b> suitable to blower motor capacity.                                                                                                                                                                                                                                                                                                                                                |  |  |
|  | Easy access of cables from fume hood to electrical sockets to be provided                                                                                                                                                                                                                                                                                                                                                               |  |  |
|  | <b>Base cabinet</b> will be of CRCA, powder coated and standing on a heavy duty "C" FRAME Structure to receive the fume hood at its top. It will have following features:<br><ul style="list-style-type: none"> <li>• Internal special chemical resistant material lining to the cabinet walls.</li> <li>• Complete chemical resistant cabinet construction</li> <li>• One removable horizontal partition to store chemicals</li> </ul> |  |  |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                        |    |     |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|    | <ul style="list-style-type: none"> <li>• Cabinets on castors</li> <li>• Locking system for the base cabinet doors with Rotary Catcher.</li> </ul>                                                                                                                                                                                                                                                                      |    |     |
|    | Level adjusting screws - Made of SS Bolts to adjust the fume hood level by +10 mm.                                                                                                                                                                                                                                                                                                                                     |    |     |
|    | <b>Exhaust port</b> design to ensure that the fumes are exhausted smoothly without any turbulence at the exhaust port. Also, it would ensure low noise level. Dia. 200/250/300 mm                                                                                                                                                                                                                                      |    |     |
|    | <b>Flow control valve</b> to regulate airflow.                                                                                                                                                                                                                                                                                                                                                                         |    |     |
|    | Noise Level <70dB at 1 meter from fume hood.                                                                                                                                                                                                                                                                                                                                                                           |    |     |
| 10 | Centrifugal Fan with Housing in PP Construction & suitable stand in MS Zinc Plating with Powder Coating.<br>Non FLP Motor: 2 HP 1400 RPM Inlet/Outlet Dia: 250mm<br>PP Molded Impeller Dia: 315mm<br>Maximum CFM: 1100 @ 0 WCMM Static Pressure<br>Minimum CFM: 400 @ 35 WCMM Static Pressure<br>Motor make: IE2 (Non FLP), Crompton Greaves / Bharat Bijlee/Hindustan make whichever available<br>DB level: 70 Approx | 1  | No. |
| 11 | Blower Stand to support vertically standing Chimney at the exhaust port of the blower                                                                                                                                                                                                                                                                                                                                  | 1  | No. |
| 12 | Cu. Flex. Cable 2.5 Sqm x 4 Core of reputed brand (LAPP / FINOLEX / POLYCAB / HAVELLS or equivalent) from Fume Hood Control Panel to Blower or Spot Extractor/Ductable Chemical Storage's Switch to Blower.                                                                                                                                                                                                            | 15 | Rmt |
| 13 | Polypropylene Glass Lined Sheet (PP-GL) and Fiber Reinforced Polyester (FRP) Ducting - Rigid Ducting of PP-GL (Thickness 2 mm) + FRP (Thickness 1 mm), along with Flexible ducting (wherever required), complete with flanges, bends, T-connectors, damper transition, clamps, etc.                                                                                                                                    | 15 | Sqm |
|    | Ducting quantity is considered as standard consumption only, actual billed will be as per site measurement                                                                                                                                                                                                                                                                                                             |    |     |

**Chemistry Lab: Room No - 308:**

| S.No. | Description of Material                                                                                                                                                                                         | Qty      | Unit       |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|
|       | <b>Lab Furniture as per Layout, consisting of:</b>                                                                                                                                                              | <b>1</b> | <b>Set</b> |
| 1     | Regent Shelf 2 Tier, Size L-1500 x D-300 x H-650 mm                                                                                                                                                             | 4        | No.        |
| 2     | Set of 5A - 1no. & 15A - 1no. Switches & Sockets with Face Plate (ANCHOR ROMA / NORISYS) without wiring                                                                                                         | 8        | Set        |
| 3     | 4 Way Gas Valve, 90 degrees                                                                                                                                                                                     | 4        | No.        |
| 4     | Overhead Storage Size-L-750xD-375xH-675 mm, openable shutters with Glass                                                                                                                                        | 6        | No.        |
| 5     | Open type Storage Rack of Size L-910x D-400xH-2100 mm, made in 40x40x1.5 mm solid sheet angle & Shelves in 0.8mm thickness with Stiffener, Duly Powder Coated (6 ADJUSTABLE shelves, making 5 compartments)     | 1        | No.        |
| 6     | Full Height Fume Hood (CAV) Overall Dimension- L- 1800 x D- 900 x H - 2400 mm, Upper Structure made of Heavy Duty CRCA / GI, Outer Dimension - 1800 x 900 x 1500 mm. Inside Working Volume- 1550 x 740 x 1200mm | 1        | No.        |
| 7     | 2 Nos. Under Counter Storages made in CRCA Powder Coated, Size- L- 900 x D- 530 x H- 725 mm with Casters                                                                                                        | 1        | No.        |
| 8     | Robust Heavy-Duty Frame with Connecting Sets & Covering Plates to take load of Fume Hood Over structure. Overall size- L- 1800 x D-850 x H-900 mm                                                               | 1        | No.        |
|       | SPECIFICATIONS -                                                                                                                                                                                                |          |            |
|       | Aerodynamic, Floor mounted                                                                                                                                                                                      |          |            |
|       | Low Constant Volume (for A.C. environment)                                                                                                                                                                      |          |            |
|       | Epoxy Powder Coated CRCA Structure                                                                                                                                                                              |          |            |
|       | Material <b>(Superstructure)</b><br>1.0 mm thickness for all sheet metal paneling<br>1.5 mm for corner post<br>1.2 mm for back Pillers                                                                          |          |            |
|       | Material <b>(Interior)</b> - Chemical & Heat Resistant, Fire Retardant,                                                                                                                                         |          |            |

|  |                                                                                                                                                                                                                                                                                           |  |  |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|  | Smooth Finish, Easily Cleanable Panels made out of Phenolic Resin Laminate - 6mm thick chemical resistant                                                                                                                                                                                 |  |  |
|  | Easily openable <b>hinged Top Panel</b> for easy access to Flow Control Valve and Electrical Lighting fixtures for maintenance.                                                                                                                                                           |  |  |
|  | Triangular profiled <b>Corner Post</b> placed on Left- and Right-Hand Side of the Fume hood, housing the utility line fittings and electrical receptacles                                                                                                                                 |  |  |
|  | <b>Airfoil</b> - Aerodynamic Design, horizontal fixed airfoil mounted on the work top made of SS-304 with PTFE coating                                                                                                                                                                    |  |  |
|  | <b>Worktop</b> - Jet Black Granite - 17± 1 mm with Skirting with Nylon Packing.                                                                                                                                                                                                           |  |  |
|  | Worktop to have sink, sealed with silicon sealant for drainage with PP tap on left and right back side of the worktop. Sink will have hose pipe for drainage.                                                                                                                             |  |  |
|  | <b>Vertical rising sash counter</b> of excellent quality toughened glass (Tempered Glass) of thickness minimum 4/5 mm balanced with CHAIN & SPROCKET and counter weight system. Smooth and light sash operation. Clear openable height of 700mm.                                          |  |  |
|  | <b>Dry and wet services</b> - Remotely operated Colour coded Brass Needle Valves for fine control over utilities (as per DIN 12920 norms) Total 03 nos. service valves with PU plumbing with 6 mm internal dia, withstand upto 15 Kgf pressure. 3 LHS: 2 for gas and 1 for water          |  |  |
|  | Openable top panel for easy maintenance of tube light and flow control valves. Triangular service panel for maintenance of utility valves and tubing.                                                                                                                                     |  |  |
|  | <b>Internal Nozzles</b> - Brass powder coated fittings staggered in the fume hood to avoid the intermingling of the flexible tubes. Also, the taps are to be tapered in shape to use with flexible tubing of sizes from ¼” to ½” in dia, to provide greater flexibility.                  |  |  |
|  | <b>Electrical utilities</b> - Minimum 3 electric sockets (220V, 6/16A, 50 Hz) of reputed make e.g., Norisys /North-West/ Havells etc. (2 right sides). Provision for Optional 2 Nos. Industrial Sockets with MCB. Light switch to be separate. Cables and wires are fire retardant grade. |  |  |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |     |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
|    | <b>Lighting</b> - LED Light with vapour-proof fitting for proper illumination.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |     |
|    | The electrical wiring to have <b>built-in starter</b> suitable to blower motor capacity.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |     |
|    | Easy access of cables from fume hood to electrical sockets to be provided                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |     |
|    | <b>Base cabinet</b> will be of CRCA, powder coated and standing on a heavy duty "C" FRAME Structure to receive the fume hood at its top. It will have following features: <ul style="list-style-type: none"> <li>• Internal special chemical resistant material lining to the cabinet walls.</li> <li>• Complete chemical resistant cabinet construction</li> <li>• One removable horizontal partition to store chemicals</li> <li>• Cabinets on castors</li> <li>• Locking system for the base cabinet doors with Rotary Catcher.</li> </ul> |   |     |
|    | Level adjusting screws - Made of SS Bolts to adjust the fume hood level by +10 mm.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |     |
|    | <b>Exhaust port</b> design to ensure that the fumes are exhausted smoothly without any turbulence at the exhaust port. Also, it would ensure low noise level. Dia. 200/250/300 mm                                                                                                                                                                                                                                                                                                                                                             |   |     |
|    | <b>Flow control valve</b> to regulate airflow.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |     |
|    | Noise Level <70dB at 1 meter from fume hood.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |     |
| 9  | Centrifugal Fan with Housing in PP Construction & suitable stand in MS Zinc Plating with Powder Coating.<br>Non FLP Motor: 2 HP 1400 RPM Inlet/Outlet Dia: 250mm<br>PP Molded Impeller Dia: 315mm<br>Maximum CFM: 1100 @ 0 WCMM Static Pressure<br>Minimum CFM: 400 @ 35 WCMM Static Pressure<br>Motor make: IE2 (Non FLP), Crompton Greaves / Bharat Bijlee/Hindustan make whichever available<br>DB level: 70 Approx                                                                                                                        | 1 | No. |
| 10 | Blower Stand to support vertically standing Chimney at the exhaust port of the blower                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1 | No. |

|    |                                                                                                                                                                                                                                                                                     |    |     |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
| 11 | Cu. Flex. Cable 2.5 Sqm x 4 Core of reputed brand (LAPP / FINOLEX / POLYCAB / HAVELLS or equivalent) from Fume Hood Control Panel to Blower or Spot Extractor/Ductable Chemical Storage's Switch to Blower.                                                                         | 15 | Rmt |
| 12 | Polypropylene Glass Lined Sheet (PP-GL) and Fiber Reinforced Polyester (FRP) Ducting - Rigid Ducting of PP-GL (Thickness 2 mm) + FRP (Thickness 1 mm), along with Flexible ducting (wherever required), complete with flanges, bends, T-connectors, damper transition, clamps, etc. | 15 | Sqm |
|    | Ducting quantity is considered as standard consumption only, actual billed will be as per site measurement                                                                                                                                                                          |    |     |

**Chemistry Lab: Room No - 309:**

| S. No. | Description of Material                                                                                                                                                                                         | Qty      | Unit       |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|
|        | <b>Lab Furniture as per Layout, consisting of:</b>                                                                                                                                                              | <b>1</b> | <b>Set</b> |
| 1      | Regent Shelf 2 Tier, Size L-1500 x D-300 x H-650 mm                                                                                                                                                             | 4        | No.        |
| 2      | Set of 5A - 1no. & 15A - 1no. Switches & Sockets with Face Plate (ANCHOR ROMA / NORISYS) without wiring                                                                                                         | 8        | Set        |
| 3      | 4 Way Gas Valve, 90 degrees                                                                                                                                                                                     | 4        | No.        |
| 4      | Overhead Storage Size-L-750xD-375xH-675 mm, openable shutters with Glass                                                                                                                                        | 6        | No.        |
| 5      | Open type Storage Rack of Size L-910x D-400xH-2100 mm, made in 40x40x1.5 mm solid sheet angle & Shelves in 0.8mm thickness with Stiffener, Duly Powder Coated (6 ADJUSTABLE shelves, making 5 compartments)     | 1        | No.        |
| 6      | Full Height Fume Hood (CAV) Overall Dimension- L- 1800 x D- 900 x H - 2400 mm, Upper Structure made of Heavy Duty CRCA / GI, Outer Dimension - 1800 x 900 x 1500 mm. Inside Working Volume- 1550 x 740 x 1200mm | 1        | No.        |
| 7      | 2 Nos. Under Counter Storages made in CRCA Powder Coated, Size- L- 900 x D- 530 x H- 725 mm with Casters                                                                                                        | 1        | No.        |

|   |                                                                                                                                                                                                                                                  |   |     |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|
| 8 | Robust Heavy-Duty Frame with Connecting Sets & Covering Plates to take load of Fume Hood Over structure. Overall size- L- 1800 x D-850 x H-900 mm                                                                                                | 1 | No. |
|   | SPECIFICATIONS -                                                                                                                                                                                                                                 |   |     |
|   | Aerodynamic, Floor mounted                                                                                                                                                                                                                       |   |     |
|   | Low Constant Volume (for A.C. environment)                                                                                                                                                                                                       |   |     |
|   | Epoxy Powder Coated CRCA Structure                                                                                                                                                                                                               |   |     |
|   | Material ( <b>Superstructure</b> )<br>1.0 mm thickness for all sheet metal paneling<br>1.5 mm for corner post<br>1.2 mm for back Pillers                                                                                                         |   |     |
|   | Material ( <b>Interior</b> ) - Chemical & Heat Resistant, Fire Retardant, Smooth Finish, Easily Cleanable Panels made out of Phenolic Resin Laminate - 6mm thick chemical resistant                                                              |   |     |
|   | Easily openable <b>hinged Top Panel</b> for easy access to Flow Control Valve and Electrical Lighting fixtures for maintenance.                                                                                                                  |   |     |
|   | Triangular profiled <b>Corner Post</b> placed on Left- and Right-Hand Side of the Fume hood, housing the utility line fittings and electrical receptacles                                                                                        |   |     |
|   | <b>Airfoil</b> - Aerodynamic Design, horizontal fixed airfoil mounted on the work top made of SS-304 with PTFE coating                                                                                                                           |   |     |
|   | <b>Worktop</b> - Jet Black Granite - 17± 1 mm with Skirting with Nylon Packing.                                                                                                                                                                  |   |     |
|   | Worktop to have sink, sealed with silicon sealant for drainage with PP tap on left and right back side of the worktop. Sink will have hose pipe for drainage.                                                                                    |   |     |
|   | <b>Vertical rising sash counter</b> of excellent quality toughened glass (Tempered Glass) of thickness minimum 4/5 mm balanced with CHAIN & SPROCKET and counter weight system. Smooth and light sash operation. Clear openable height of 700mm. |   |     |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|  | <b>Dry and wet services</b> - Remotely operated Colour coded Brass Needle Valves for fine control over utilities (as per DIN 12920 norms) Total 03 nos. service valves with PU plumbing with 6 mm internal dia, withstand up to 15 Kgf pressure. 3 LHS: 2 for gas and 1 for water                                                                                                                                                                                                                                                             |  |  |
|  | Openable top panel for easy maintenance of tube light and flow control valves. Triangular service panel for maintenance of utility valves and tubing.                                                                                                                                                                                                                                                                                                                                                                                         |  |  |
|  | <b>Internal Nozzles</b> - Brass powder coated fittings staggered in the fume hood to avoid the intermingling of the flexible tubes. Also, the taps are to be tapered in shape to use with flexible tubing of sizes from 1/4" to 1/2" in dia, to provide greater flexibility.                                                                                                                                                                                                                                                                  |  |  |
|  | <b>Electrical utilities</b> - Minimum 3 electric sockets (220V, 6/16A, 50 Hz) of reputed make e.g., Norisys /North-West/ Havells etc. (2 right sides). Provision for Optional 2 Nos. Industrial Sockets with MCB. Light switch to be separate. Cables and wires are fire retardant grade.                                                                                                                                                                                                                                                     |  |  |
|  | <b>Lighting</b> - LED Light with vapour-proof fitting for proper illumination.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |
|  | The electrical wiring to have <b>built-in starter</b> suitable to blower motor capacity.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |
|  | Easy access of cables from fume hood to electrical sockets to be provided                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |
|  | <b>Base cabinet</b> will be of CRCA, powder coated and standing on a heavy duty "C" FRAME Structure to receive the fume hood at its top. It will have following features: <ul style="list-style-type: none"> <li>• Internal special chemical resistant material lining to the cabinet walls.</li> <li>• Complete chemical resistant cabinet construction</li> <li>• One removable horizontal partition to store chemicals</li> <li>• Cabinets on castors</li> <li>• Locking system for the base cabinet doors with Rotary Catcher.</li> </ul> |  |  |
|  | Level adjusting screws - Made of SS Bolts to adjust the fume hood level by +10 mm.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                        |    |     |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|    | <b>Exhaust port</b> design to ensure that the fumes are exhausted smoothly without any turbulence at the exhaust port. Also, it would ensure low noise level. Dia. 200/250/300 mm                                                                                                                                                                                                                                      |    |     |
|    | <b>Flow control valve</b> to regulate airflow.                                                                                                                                                                                                                                                                                                                                                                         |    |     |
|    | Noise Level <70dB at 1 meter from fume hood.                                                                                                                                                                                                                                                                                                                                                                           |    |     |
| 9  | Centrifugal Fan with Housing in PP Construction & suitable stand in MS Zinc Plating with Powder Coating.<br>Non FLP Motor: 2 HP 1400 RPM Inlet/Outlet Dia: 250mm<br>PP Molded Impeller Dia: 315mm<br>Maximum CFM: 1100 @ 0 WCMM Static Pressure<br>Minimum CFM: 400 @ 35 WCMM Static Pressure<br>Motor make: IE2 (Non FLP), Crompton Greaves / Bharat Bijlee/Hindustan make whichever available<br>DB level: 70 Approx | 1  | No. |
| 10 | Blower Stand to support vertically standing Chimney at the exhaust port of the blower                                                                                                                                                                                                                                                                                                                                  | 1  | No. |
| 11 | Cu. Flex. Cable 2.5 Sqm x 4 Core of reputed brand (LAPP / FINOLEX / POLYCAB / HAVELLS or equivalent) from Fume Hood Control Panel to Blower or Spot Extractor/Ductable Chemical Storage's Switch to Blower.                                                                                                                                                                                                            | 15 | Rmt |
| 12 | Polypropylene Glass Lined Sheet (PP-GL) and Fiber Reinforced Polyester (FRP) Ducting - Rigid Ducting of PP-GL (Thickness 2 mm) + FRP (Thickness 1 mm), along with Flexible ducting (wherever required), complete with flanges, bends, T-connectors, damper transition, clamps, etc.                                                                                                                                    | 15 | Sqm |
|    | Ducting quantity is considered as standard consumption only, actual billed will be as per site measurement                                                                                                                                                                                                                                                                                                             |    |     |

**Chemistry Lab: Room No – 303 and 304:**

| S. No. | Description of Material                                                  | Qty      | Unit       |
|--------|--------------------------------------------------------------------------|----------|------------|
|        | <b>Lab Furniture as per Layout, consisting of:</b>                       | <b>1</b> | <b>Set</b> |
| 1      | Overhead Storage Size-L-750xD-375xH-675 mm, openable shutters with Glass | 8        | No.        |
| 2      | Overhead Storage Size-L-600xD-375xH-675 mm, openable shutters with Glass | 3        | No.        |

**Chemistry Lab: Room No – 310 and 311:**

| S. No. | Description of Material                                                  | Qty      | Unit       |
|--------|--------------------------------------------------------------------------|----------|------------|
|        | <b>Lab Furniture as per Layout, consisting of:</b>                       | <b>1</b> | <b>Set</b> |
| 1      | Overhead Storage Size-L-750xD-375xH-675 mm, openable shutters with Glass | 8        | No.        |
| 2      | Overhead Storage Size-L-600xD-375xH-675 mm, openable shutters with Glass | 3        | No.        |

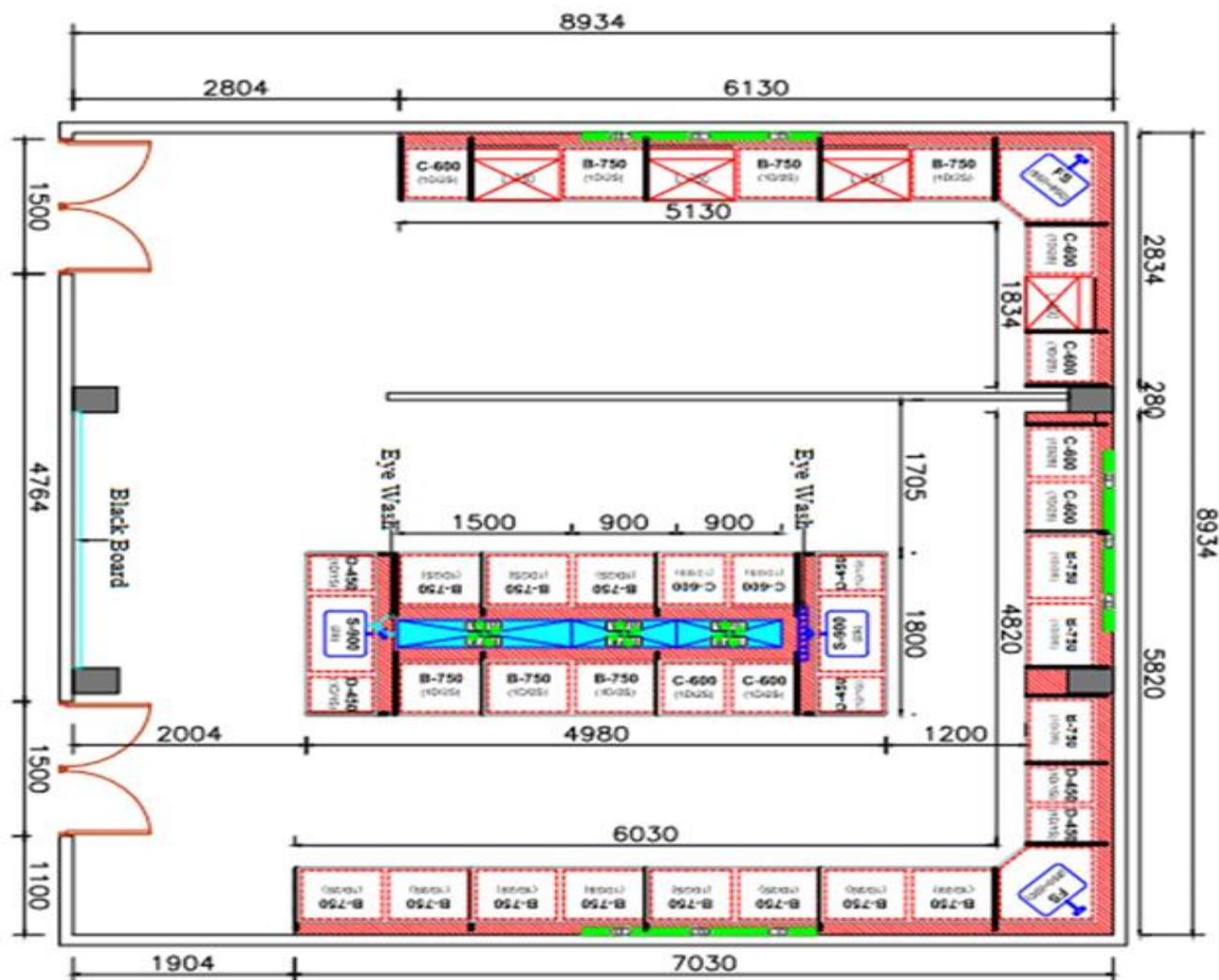
**Chemistry Lab: Miscellaneous Item**

| S. No. | Description of Material                                                                                                                                                          | Qty       | Unit       |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|
|        | <b>DTD cabinet consisting of:</b>                                                                                                                                                | <b>01</b> | <b>Set</b> |
| 1.     | Wall Mounted Lockable Enclosure to house Visual Presenter, Wireless Keyboard & Mouse (all supplied along with cabinet); Cabinet should be made of powder-coated CRCA Steel Sheet | 01        | Nos        |
|        | <b>Visual Presenter consisting of:</b>                                                                                                                                           | <b>01</b> | <b>Set</b> |
| 2.     | Camera Sensor: 1/4"CMOS Sensor F=2.8                                                                                                                                             | 01        | Nos        |
| 3.     | Effective pixels: Min. 8 Mega Pixel or better                                                                                                                                    |           |            |

|     |                                                                                                                                                                                                                                                                                                           |  |  |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| 4.  | Frame rate: Min. 30fps or better                                                                                                                                                                                                                                                                          |  |  |
| 5.  | Inbuilt microphone: Should available inbuilt Microphone                                                                                                                                                                                                                                                   |  |  |
| 6.  | Video Output: It should provide the following resolutions<br>HDMI: Full HD (1080p), HD (720p), VGA (480p); USB: Full HD (1080p), SXGA (1280 x 1024), XGA (1024 x 768), SVGA (800 x 600), VGA (640 x 480), QVGA (320 x 240); VGA: HD (1360 x 768), WXGA (1280 x 800), SXGA (1280 x 1024), XGA (1024 x 768) |  |  |
| 7.  | Shooting area: Minimum A3 (420MM x 297MM) or better to share information more flexibility.                                                                                                                                                                                                                |  |  |
| 8.  | Zooming capability: Minimum 10x Zooming Capability or better to capture clear and loss-less magnified image.                                                                                                                                                                                              |  |  |
| 9.  | Split screen: Device should allow the live image of an object being captured to be displayed alongside an image stored on the external memory.                                                                                                                                                            |  |  |
| 10. | Focus adjustment: It should have option of Auto/ Manual Focus Adjustment                                                                                                                                                                                                                                  |  |  |
| 11. | LED light: Two Type LED system Top LED & Side LED strip                                                                                                                                                                                                                                                   |  |  |
| 12. | White Balance: Auto                                                                                                                                                                                                                                                                                       |  |  |
| 13. | LED Light Brightness Adjustment: Should support LED Light Brightness Adjustment & Dimming capability                                                                                                                                                                                                      |  |  |
| 14. | Image rotation: 90°, 180°, 270°                                                                                                                                                                                                                                                                           |  |  |
| 15. | Multimedia functionality: Freeze, Focus Adjustment, LED on/off, Brightness Adjustment, Contrast, Negative, Black and While, Split Screen, Slideshow, Video Capture, Flicker Reduction, Image Rotation(0/180degrees), Source (PC/SD Card), Image Mirror, Picture in Picture.                               |  |  |
| 16. | Interactive features: Should have Touch screen support to perform interactive features                                                                                                                                                                                                                    |  |  |
| 17. | SD Card: Should support SD/SDHC card with min. 32 GB Capability or more                                                                                                                                                                                                                                   |  |  |

|     |                                                                                                                                                                                                                                                                                    |  |  |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| 18. | File Format: JPEG (1920 x 1080), VGA (720p)                                                                                                                                                                                                                                        |  |  |
| 19. | Connectivity port: 1x VGA In, 1x VGA out, 1x HDMI out, 1x USB, 1x SD Card                                                                                                                                                                                                          |  |  |
| 20. | Safety: Should have Kensington lock (K-Lock)                                                                                                                                                                                                                                       |  |  |
| 21. | Portability: Device should portable structure allows users to fold and easy to store.                                                                                                                                                                                              |  |  |
| 22. | Advance Features: PC Less Annotation, Image roaming drag Region zoom in, Split Screen function, Camera Rotation, Device Portability, Microscope Capability                                                                                                                         |  |  |
| 23. | Remote control: Device should available with fully functional remote control                                                                                                                                                                                                       |  |  |
| 24. | Annotation: Device should have on-board Annotation feature without using any other computing device.                                                                                                                                                                               |  |  |
| 25. | On-screen Toolbar: Should have on-Screen toolbar to perform Auto focus, Magnifier, zoom in/out, Rotate, Mirror, Freeze, Division, Snap, Record, File Browse, PIP, Annotate, Settings                                                                                               |  |  |
| 26. | Key on visual presenter: It should have minimum Zoom in/out, Res/Exit, Menu, VGA/HDMI, Light, Auto/OK, UP/Down buttons or more for ease of access                                                                                                                                  |  |  |
| 27. | Certification: BIS, CE, RoHS, FCC and BIS certification of Visual Presenter required for the last 3 years with the manufacturing facility in India. Quoted model should be included in the BIS license before the Bid submission and should be verifiable online from BIS website. |  |  |
| 28. | The bid specific OEM authorization is must attached for the technical bid qualification.                                                                                                                                                                                           |  |  |

## Layouts of Renovation / Upgradation related Works of Chemistry Laboratories



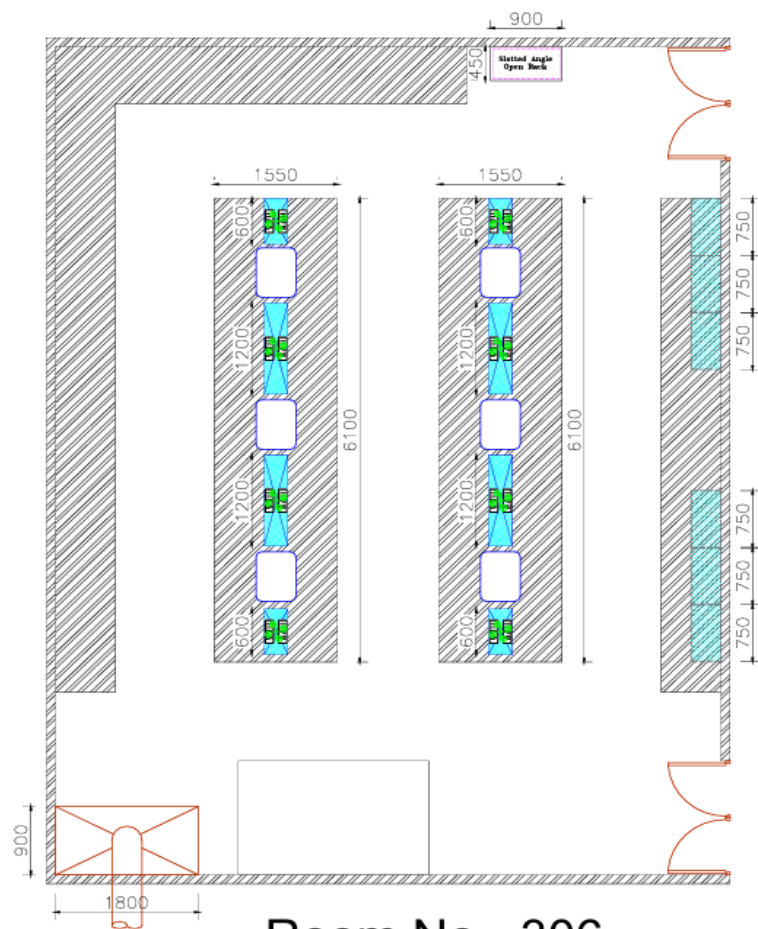
Room No. 118



## REVISION

|             |             |                   |
|-------------|-------------|-------------------|
|             | PROJECT     | KOTA UNIVERSITY   |
| REV. SUFFIX | CLIENT      | KOTA UNIVERSITY   |
|             | SHEET TITLE | LABORATORY LAYOUT |

|       |             |          |            |              |
|-------|-------------|----------|------------|--------------|
|       |             |          |            | REVISION NO. |
|       |             |          |            | RD           |
|       |             |          |            | DWG. NO.     |
|       |             |          |            |              |
| SCALE | DATE        | DRAWN BY | CHECKED BY |              |
| N.T.S | 03 JAN 2023 | SAMET    |            |              |



### Legend (C-Frame System)

|  |                                                                                         |
|--|-----------------------------------------------------------------------------------------|
|  | Slotted Angle Rack, All Side Open, 6 shelves, 5 compartments, H-2100 x D-450 x W-900 mm |
|  | Electrical Raceway, H-100 x D-85 mm Wall / Table Top Mounted                            |
|  | Set of 2 Nos. 5A/15A Switches & Sockets with face plate                                 |
|  | Z-Black Granite of 17+/- 1 mm thickness with Packing                                    |
|  | Over Head storage with size L-750.D- 375.H-650mm                                        |
|  | 2 Tier Regent Rack of Length L-800/1050/1200/1500 mm                                    |
|  | 4 - Way Gas Valve                                                                       |

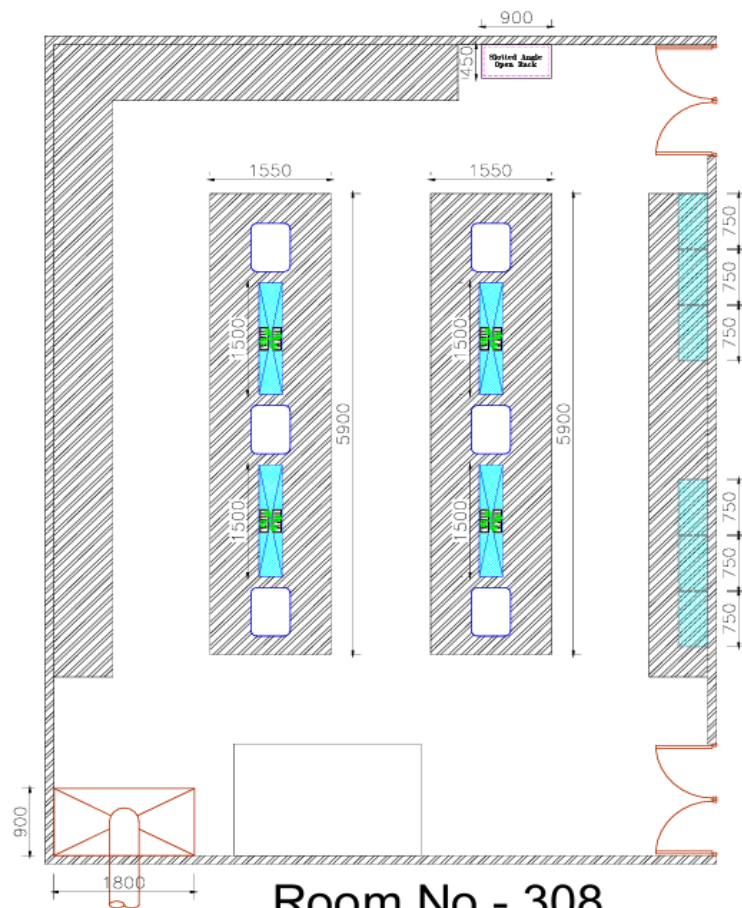
#### NOTES:-

1. ALL DIMENSIONS TO BE READ NOT TO BE SCALED
2. THIS DRAWING SUPERSEDES ALL OTHER PREVIOUS DRAWING
3. ALL DIMENSIONS ARE IN MM. EXCEPT OTHERWISE MENTIONED
4. ANY AMBIGUITY IN THE DRAWING MUST BE BROUGHT TO NOTICE BEFORE THE COMMENCEMENT OF RELEVANT ITEMS OF WORK.
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#### REVISION

| DATE | DESCRIPTION | REVISION NO. | DATE | DESCRIPTION | REVISION NO. |
|------|-------------|--------------|------|-------------|--------------|
|      |             |              |      |             |              |
|      |             |              |      |             |              |
|      |             |              |      |             |              |
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|             |                   |                 |              |    |
|-------------|-------------------|-----------------|--------------|----|
| REV. SUFFIX | CLIENT PROJECT    | KOTA UNIVERSITY | REVISION NO. | RO |
| SHEET TITLE | LABORATORY LAYOUT | KOTA UNIVERSITY | DWG. NO.     |    |
| SCALE       | DATE              | DRAWN BY        | CHECKED BY   |    |
| N.T.S       | 23 JAN 2023       | SAMIT           |              |    |



Room No - 308

### Legend (C-Frame System)

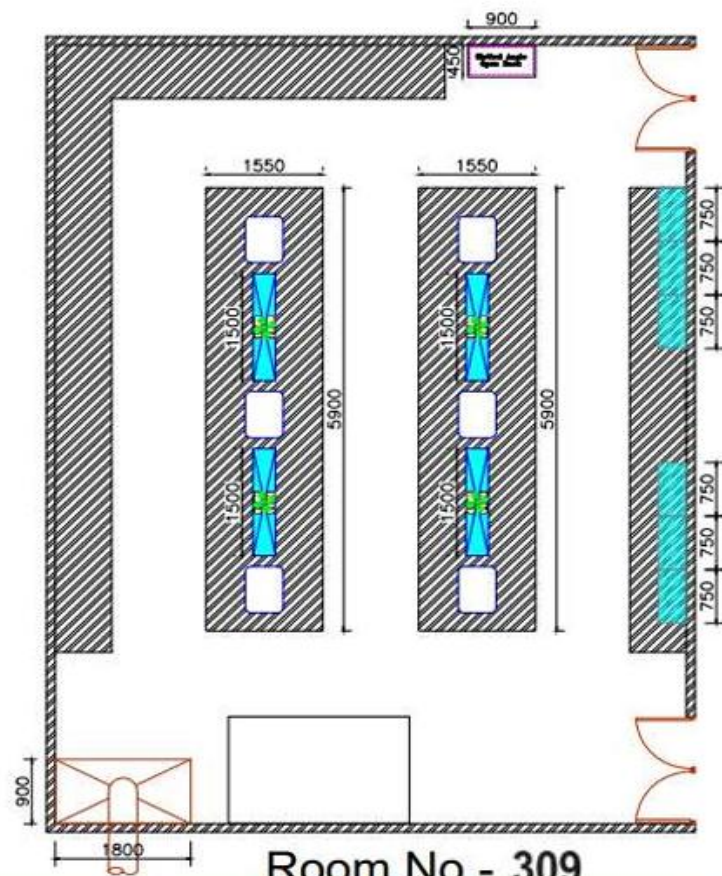
|  |  |                                                                                         |
|--|--|-----------------------------------------------------------------------------------------|
|  |  | Slotted Angle Rack, All Side Open, 6 shelves, 5 compartments, H-2100 x D-450 x W-900 mm |
|  |  | Electrical Raceway, H-100 x D-85 mm Wall / Table Top Mounted                            |
|  |  | Set of 2 Nos. 5A/15A Switches & Sockets with face plate                                 |
|  |  | Z-Black Granite of 17+/- 1 mm thickness with Packing                                    |
|  |  | Over Head storage with size L-750, D- 375, H-650mm                                      |
|  |  | 2 Tier Regent Rack of Length L-900/1050/1200/1500 mm                                    |
|  |  | 4 - Way Gas Valve                                                                       |

- NOTES:-
1. ALL DIMENSIONS TO BE READ NOT TO BE SCALED
  2. THIS DRAWING SUPERSEDES ALL OTHER PREVIOUS DRAWING
  3. ALL DIMENSIONS ARE IN MM, EXCEPT OTHERWISE MENTIONED
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| REVISION |             |              |      |             |              |
|----------|-------------|--------------|------|-------------|--------------|
| DATE     | DESCRIPTION | REVISION NO. | DATE | DESCRIPTION | REVISION NO. |
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|             |                | KOTA UNIVERSITY   |  |
| REV. SUFFIX | TITLE          | LABORATORY LAYOUT |  |
|             |                | LABORATORY LAYOUT |  |

| REVISION NO. |             |          |            |
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Room No - 309

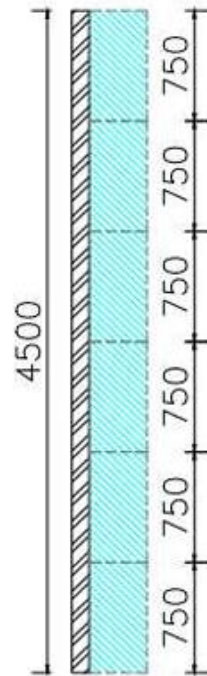
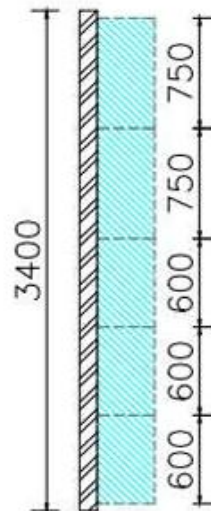
# Legend (C-Frame System)

|  |  |                                                                                          |
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|  |  | Stained Angle Rack, All Sides Open, 6 drawers, 5 compartments, H-2100 x D-450 x W-600 mm |
|  |  | Electrical Rackway, H-100 x D-80 mm Wall / Table Top Mounted                             |
|  |  | Set of 2 Nos. 5A/15A Switches & Sockets with face plate                                  |
|  |  | Z-Block Grapple of 17x11 mm thickness with Packing                                       |
|  |  | Outer Head storage with wire L-750 D-375 H-450mm                                         |
|  |  | 2 Tier Reagent Rack of Length L-900/1000/1200/1300 mm                                    |
|  |  | 4-Way Gas Valve                                                                          |

- NOTES:-
1. ALL DIMENSIONS TO BE GIVEN IN mm UNLESS OTHERWISE SPECIFIED.
  2. THIS DRAWING SUPERSEDES ALL OTHER PREVIOUS DRAWINGS.
  3. ALL DIMENSIONS ARE TO THE CENTERLINE UNLESS OTHERWISE SPECIFIED.
  4. THE DIMENSIONS IN THE DRAWING MUST BE ACCURATE TO WITHIN 10% OF THE DIMENSIONS OF THE DRAWING.
  5. THIS DRAWING IS THE PROPERTY OF THE COMPANY AND NOT TO BE LOANED OR USED IN ANY MANNER WITHOUT THE PERMISSION.

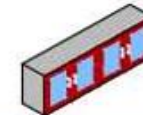
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Room No - 303 / 304

### Legend (C-Frame System)



Over Head storage with size  
L-750-600,D- 375,H-650mm

NOTES:-  
1. ALL DIMENSIONS TO BE MARKED UP TO BE WORKED  
2. THE DIMENSIONS SUPERSEDES ALL OTHER PREVIOUS DRAWINGS  
3. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED  
4. ANY DIMENSION IN THE DRAWING MUST BE ACCURATE TO  
WITHIN THE TOLERANCE OF PRECISION  
5. THE DIMENSION TO THE DIMENSION IS CORRECTED BY - WHICH DIMENSION MUST  
NOT TO BE CORRECTED BY USED IN ANY MANNER WITHOUT THEIR  
PERMISSION.

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**Note:**

1. The entire Laboratory furniture should be tested as per SEFA-8M standards in SEFA Approved labs with the latest Guidelines published by SEFA.
2. Should be modular construction & design made of mainly skin passed/zero spangle GI (Galvanized Iron)/CRCA (Cold Rolled Close Annealed) duly coated with at least 50-60micron Epoxy Powder Coated in panel form and in CKD (Completely Knocked Down) construction so can be erected at site as per attached layout. The design should have provision for reconfiguration for change in layout using simple tooling and should provide independent access to the utilities installed, electrical panel & instrumentation panel. It should be removable without removing other panels.
3. All GI/CRCA sheet components (TATA Steel/SAIL/Jindal) should be fabricated by precision shearing, levelling, notching, piercing, machines to achieve consolidated dimensions within close tolerances under the strict quality checks and assembled with the aid of fixtures. Exposed welding marks should be polished smooth to improve aesthetic. Corner intersections of vertical and horizontal members should be in the same plane with bolted joints and should be suitably aligned.
4. **Frame Structure:** C frame fabricated out of heavy gauge hollow pipes size 60x30x2 mm and 2.0 mm thick steel plates. The structure will be provided with necessary levelling bolts suitable for  $\pm 5$  mm level adjustment. Open ends of the pipe will be provided with elegant finish plastic caps. The structure shall be duly treated for the rust prevention and coated with epoxy powder coated.
5. **Under bench storage modules:** Standards Heavy Duty under Module, comprising of one drawer, one cabinet with shutter and adjustable height shelf. Cabinet shutter should be in double skin construction and should be provided with heavy duty, knuckle and barrel type SS hinges and positive catch arrangement. The under module should be fabricated out of heavy gauge special grade GI/CRCA sheet in weld less construction and should be finished with pure epoxy coating for extra ordinary corrosion resistance.
6. Laboratory workstations should be available in 2 heights of 900mm (Standing purpose) and 750mm (sitting purpose) in metallic construction designed to have completely flexible modular system. Necessary leg space should be provided between two modules wherever required.
7. The steel frames, panels and shutters shall be made from Prime Quality GI/CRCA of following thickness (TATA Steel/SAIL/Jindal).

|                                                                                                                                      |                    |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Sides, top, bottom, back, shelves, drawers, end cover panels, stiffeners, service panel over bench                                   | 1.0 mm             |
| Shutters, drawer front in double skin construction                                                                                   | 1.2 mm             |
| Hinge plates, Shelf brackets, pedestal structure members, service panel under bench, cabinet main frame structure, drawer side rails | 1.6 mm             |
| Pedestal frame                                                                                                                       | ERWTube60x30x2.0mm |

8. **List of approved makes of materials**

- |                                                    |                                         |
|----------------------------------------------------|-----------------------------------------|
| <input type="checkbox"/> Paint                     | : ICI/Asian Paints/Berger/Oikos/Nerolac |
| <input type="checkbox"/> Float Glass               | : Modi Guard/Glaver Bel/Saint Gobain    |
| <input type="checkbox"/> Expansion Bolts           | : Hilti/Fischer/Hettich                 |
| <input type="checkbox"/> Glazing Sealant           | : Dow Corning/GESealant                 |
| <input type="checkbox"/> Pre Laminated Board       | : Novapan/Greenlam/Merino               |
| <input type="checkbox"/> Resin based Adhesive      | : Fevicol/Vamicol                       |
| <input type="checkbox"/> SS/Chrome Coated Hardware | : Dorma/Hafele/Hettich                  |

- |                                                           |   |                                        |
|-----------------------------------------------------------|---|----------------------------------------|
| <input type="checkbox"/> Laminates                        | : | Formica/Decolam/Greenlam/Merino        |
| <input type="checkbox"/> Aluminum Alloy Extruded Section: | : | Hindalco/Indalco/Jindal                |
| <input type="checkbox"/> Hinges                           | : | Hettich/Haffle/Grass                   |
| <input type="checkbox"/> Locks                            | : | Dorset/Locksmith/Godrej/Hettich/Haffle |

9. **Surface treatment:** The complete GI/CRCA material of cabinet is pretreated (degreased, zinc phosphated) and epoxy powder coated for better corrosion resistance. The thickness of powder coat shall not be less than 50-60 microns, conforming to relevant BIS code, which accordingly passes the test of Salt Spray for 1000 hours and having the scratch hardness of 3 Kg.
10. **Worktops:** 16±1mm thick Phenolic resin construction for the laboratory.
11. **Reagent rack/shelves:** Should be worktop mounted double tier complete modular design consisting of horizontal 2-stage shelves. The end vertical support should be 0.9mm & horizontal surface shelves of 0.8 mm thick GI/CRCA Sheet surface to be PP Laminated 1 mm thick of approved shade. Each shelf should have load carrying capacity of 30 Kg of UDL for the length of 1000 mm. Each vertical panel shall be assembled with horizontal shelf with M6 fasteners having Zinc-Cobalt coating for better corrosion resistance. The thickness of epoxy powder coat to be 45 microns (minimum), which passes the test of Salt Spray for 1000 hours and having the Scratch Hardness of 3 Kg (minimum) with electrical trunking for point as per technical specification. Rack platform should be in wire reinforced glass or Phenolic Resin construction. Shelf height should be adjustable as per requirement.
12. **Overhead storage cabinets:** Should have an overall dimension of 600 (W) x 350 (D) x 600 (H) mm, consist of one adjustable shelf, cabinet frame, metal/glass ( $\geq 5$  mm thickness) shutters, shelves and SS handles. Cabinet frame should be of 1.2 mm GI/CRCA sheet, with horizontal stiffeners of 1.2mm thick. Metal Shutters should be of 0.8mm thick GI/CRCA sheet with profile insert to provide rigidity to the doors. GI/CRCA adjustable shelves should have a load carrying of 40 Kg UDL. SS 304 handles to provide extra corrosion resistance. Hinges have to be spring loaded with CED coating with self-closing mechanism. The complete GI/CRCA material of cabinet should be epoxy powder coated for better corrosion resistance. The thickness of powder coat to be 45 – 50 microns as per specification, which passes the test of Salt Spray for 1000 hours and having the Scratch Hardness of 3Kg. Each unit should have a locking facility with 180°, cam lock mechanism.
13. **Floor Mounted Cabinets:** Cabinet should be fabricated out of GI/CRCA sheet sand duly coated with epoxy powder for good aesthetics. Cabinet should have recessed skid and adjustable shelves. Cabinet doors should being double skin Metallic/Glass construction for proper strength and aesthetics. Necessary frame structure and hat section stiffeners should be provided for strengthening larger panels. Doors should have proper locking arrangement. Dimension and Constructional details of the cabinet should be as mentioned below.

**Overall Dimensions:** Width–1000mm x Depth–450mm x Height–1830mm

**No. of Shelves:** 1 shelf is fixed and 4 Nos. adjustable. Total of 6 compartments.

**Construction Details: -**

- End Panel, Rear panel, Top Panel & Bottom Panel:-1.2mm thick GI/CRCA Sheet.
- Front door:-1.0 mm thick double skin GI/CRCA Sheet const.
- Door Fixing Frame:-1.6 mm thick double skin GI/CRCA Sheet
- Skid:-1.2mm thick GI/CRCA Sheet.
- Shelf:-1.2mm thick GI/CRCA Sheet.
- Hatchannels:-1.2 mm thick GI/CRCA Sheet.
- Door Hinges:-SS const. or Nylon const.

- Door Handles:- SS304 const.
14. The quotation shall also include all the fittings and fixtures of the main electrical board, ergonomically designed chairs of reputed make as approved by the In-Charge. It is to be noted that every material required for the commissioning of the furniture at the site shall be provided by the bidder.
  15. **Sink:** Five stainless steel (SS304)/polypropylene sinks (L 560 x W 355 x D 230), a three-way water faucet (2 straight + 1 swan neck) made of brass and duly coated with epoxy powder coating, an eye safety shower and a peg board of matching dimension. The make should be of (Water Saver/Broen/Premier/Nirali) stainless steel. Sink outlet should be provided with bottle trap made of stainless steel (SS304)/polypropylene.
  16. **Water tap:** 3-way taps/valves with goosenecks required at the sink tables made of forged brass body with 1/2" BSP male inlet and powder coated. Goosenecks shall have a separate outlet coupling with a female thread securely brazed to the gooseneck for attachment of serrated hose ends, aspirators and other outlet fittings. Rigid goose necks shall have a male inlet thread and be threaded directly into the faucet body so as to be absolutely rigid. Swing goosenecks shall utilize a TFE packing with an externally adjustable packing nut. Water faucets and valves shall be fully assembled and individually tested at 80 pounds per square inch (PSI) water pressure. All taps shall have ABS (Acrylonitrile Butadiene Styrene) plastic knob with ISI approved colour code. The make should be of Water Saver/Broen/FAG/Messer/ Premier/ TOF/SAN.
  17. **Eye wash:** Emergency double outlet eye/face wash with spray-type outlet heads to deliver a soft, wide, high-volume spray of water must be provided. Outlet heads shall have an internal self-regulating flow control, a reticulated polyurethane filter, a threaded spray cover and a hinged swing-away dust cover. Hinged cover shall be permanently attached to outlet head body with a stainless-steel pin. All wearing components shall be located inside spray head for ease of service. The make should be of Water Saver /Broen/FAG/Messer/TOF/Premier/SAN.
  18. **PEG board:** The overall dimension of peg board should be at-least 420 mm x 550 mm shall be made of 10 mm polypropylene. The board should have  $\geq 20$  nos. peg holders with a pitch of 10 mm box type construction. The side thickness of entire unit to be 21 mm and the drip tray to be of 60 mm width. All complete as per design, drawing and as per specification/additional specifications & as directed by the In-Charge.
  19. **Drip cups:** Should have lipped edges at the top. Should have waste coupling of 1 1/4" BSP threads for further connection of waste line plumbing. The make should be of (Water Saver/Broen/Premier/Nirali).
  20. **Electrical fittings:** Each electrical module must consist of one 6/16 Amp 3 Pin Socket, one 6/16 Amp Switch SP 32 Amp (Northwest/Havells/Crabtree/Legrand make) must be provided along with suitable 4 sq mm wiring (Havells/Kalinga/Polycab) from the main panel. Each socket should have independent wire connected to the main panel through MCB/MCCB. No looping of connections shall be allowed. Fittings should be mounted on electrical trunk. Electrical Trunking should be 1 mm thick GI/CRCA with epoxy powder coating. All the above accessories shall have a high temperature withstanding capacity; fire resistant and excellent electrical insulation properties. The rear portion of above accessories, which is in contact with live metal, shall be made from thermo set material, which does not melt on heating. The bidder will also have to provide the main panel along with suitable MCB/MCCB etc. (Northwest/Havells/Crabtree/Legrand make).
  21. **Fume hood:** should be a free-standing rigid panel structure of steel (CRCA)/ as per

IS: 513 CR2 (Cold Reduced Carbon Steel Sheets & Strips (Part 1), 2016/ (GIs) per IS 277: 2003 standard of

- 1.0mm thickness for all sheet metal paneling
- 1.6mm for back pillars
- 2mm for front corner post & Front Pillar bases

Double wall ends, not more than 6" wide, should be provided to maximize interior working area. The area between the double wall ends should be closed to house the remote-control valves. Cut-outs should be provided inside the fume hood for service line accessibility. The same to have a cover with a fastener free design. The vertical fascia shall contain the required service controls, electrical switches and receptacles.

A streamlined airfoil is an integral at the bottom of the hood opening on bench. This foil shall provide a nominal 20mm open space between the foil and the top front edge of the work surface to direct an air stream across the work surface to prevent back flow of air. The sash should be provided with a separate handle which also provides for air flow when in completely closed position. The foil should be of 1.2mm steel, SS-304 grade to resist denting and flexing. It is further coated with scratch resistant PTFE Level 2 Coating – Black Metallic

A stable, non-adjustable baffle with a single slot on the back baffle to aid in distributing the flow of air into and through the hood. The baffle should be spaced out from the back liner and should be removable for cleaning. Material (Interior) - chemical & heat resistant, fire retardant, smooth finish, easily cleanable panels made out of phenolic resin laminate – 6mm thick chemical resistant.

Interstitial 3-point active kinetics exhaust system (for light, normal & heavy fumes) with baffle to ensure rapid exhaust of fumes. Chemical & heat resistant, fire retardant, smooth finish, easily cleanable panels made out of phenolic resin laminate – 6mm thick chemical resistant. Easily openable hinged Top Panel for easy access to Flow Control Valve and Electrical Lighting fixtures for maintenance.

16 ± 1 mm thick Phenolic resin construction with Pan Tight formation with Skirting on all sides to avoid any spillage. Worktop to have a drip-cup sink, sealed with silicon sealant for drainage on left back side of the worktop. Sink will have hose pipe for drainage.

A vertically moving sash should be provided. The bottom of the sash frame has to be a full-length metal handle. The sash track has to have minimum protrusion to avoid any kind of turbulence. The sash should be counter balanced with weights to prevent tilting and binding during operation. The glass panels should be 5mm toughened glass mounted in a levelled channel with roller for smooth operation. The Sash should run on Chain & Sprocket or Conveyor Belt & Sprocket Mechanism for smooth movement and be of very less maintenance.

An 8"-10" diameter polyethylene funnel shaped rectangular duct collar should be located in the top of the hood plenum chamber. Triangular profiled Corner Post placed on Left- and Right-Hand Side of the Fume hood, housing the utility line fittings and electrical receptacles. 2 LED Lights of 10 watts each should be provided at the top of the fumehood.

A funnel should be there to connect fume hood with ducting. They are to be designed to reduce the static pressure and are made up of Poly-propylene of 4 mm thickness. Utility services like Vacuum, Nitrogen, Compressed Air & Raw water (as per Schedule of Quantity) shall consist of remote-control valves as selected located within the end panels, controlled by in and out facility with flexible hose passing through the side panels of the hood, with color coded plastic handles. Interior fitting for gases and water should be with powder coated brass. All gas valves for regular lab gases to have standard needle valve and push and turn type arrangement for all burning gases should be supplied. All supplied valves to clear the following pressure test conditions: Gas Fittings - 7 bar, Water fittings - 10 bar.

- Remotely operated Colour coded Brass Needle Valves for fine control over utilities (as per DIN 12920 norms) Total 03 nos. service valves with PU plumbing with 6 mm internal dia, withstand up to 15 Kgf pressure.
- 2 for gas/vacuum/compressed air
- 1 for water

Internal Nozzles - Brass powder coated fittings staggered in the fume hood to avoid the intermingling of the flexible tubes. Also, the taps have to be tapered in shape to use with flexible tubing of sizes from  $\frac{1}{4}$ " to  $\frac{1}{2}$ " in dia, to provide greater flexibility. Connections from remote valve to internal nozzle have to be provided factory fitted. A final supply PU connector has to be provided at the back of the hood for various utility supplies.

The hood superstructure should be fully wired and should have a control box with MCB blower starter, all safety devices like overload trip relay & phase preventer etc. Inlet should be of 3 phase power supply and the whole electrical should be of plug and play type. Power receptable –

- 4 nos. electrical sockets and switches of reputed make (230V, 5/16 A, 50 Hz) provided on the front post
- 2 Nos. Industrial Sockets & MCB below the hood(just above the base cabinets)

#### **Frame:**

Fume Top has to be placed on a free standing very heavy duty "C" frame, made of 60 x 30 mm CRCA Pipe of 3 mm Thickness. Ready to take the full load.

#### **Base Cabinet Material of Construction:**

Complete PP for Chemicals & Acid storage or CRCA for apparatus or powdered chemical storage. 2 Cabinets of equal size to cover full length of the fume hood (for up to 1800 mm Fume Hood), 4 Cabinets of equal size for L-2400 mm Fume Hood. All base cabinets are of D-635 mm and H-725 mm with Heavy Duty 4 nos. of Castors (front 2 castors have brakes) with following features:

- Internal special chemical resistant material lining to the cabinet walls.
- Complete chemical resistant cabinet construction
- One removable horizontal partition to store chemicals
- Cabinet son castors
- Locking system for the base cabinet doors with Rotary Catcher.

APP damper of suitable size has to be connected to Ducting to act as Flow control valve to regulate air flow.

22. **Quality assurance and workmanship:**

- ❖ Samples shall be taken/made as per the direction of the In-Charge in presence of the authorized representative of the contractors. Samples shall be signed and sealed by both the parties. Manufacturer's Test certificate for the product being offered is to be provided to the department.
- ❖ The specifications are intended for the general description of the work quality and workmanship. The specifications are however not intended to cover the minute details and work shall be executed according to the specification given herein or in its absence the relevant BIS/SEFA specification/standards or the best practice recommended by relevant Indian Manufacturers or best trade practices.
- ❖ All material shall conform to the approved makes of materials specified. The procurement of various materials shall be either from the manufacturers or their authorized dealers so that there are no duplicate/spurious makes are used. Notwithstanding all above, contractor shall be held responsible for the execution of works and use of proper best available quality of materials as per the tender specifications. For the items/materials not appearing in the list, the decision of Engineer-in-charge shall be final and binding.
- ❖ The contractor shall arrange stage wise inspection of the furniture at factory of the works by in-Charge or his authorized representative if asked for. Contractor will have no claim if the furniture brought at site is rejected by In-Charge in part or full lot due to bad workmanship /quality. Such furniture will not be paid for and the contractor shall remove the same from the site of work within 7 days after the written instructions in this regard are issued by In-Charge or his authorized representative.
- ❖ The contractor shall produce all materials in advance so that there is sufficient time for testing and approving of the material and clearance of the same for use in work. The contractor shall produce test certificates of all the material in respect of their conformation to the relevant Indian standards/quotation specifications. All tests required for the materials as desired by the In-Charge shall be at the contractor's cost.
- ❖ Testing may also be carried out at the discretion of the In-Charge, from the lot of finished products brought at site by the contractor. In case such tests have been carried out by the principal manufacturer at its testing facility, the same will may be provided by the contractor for consideration.

23. **Scope:**

- ❖ The scope shall constitute fabrication, assembling, and preparation of design, drawings, supply and erection. Work shall be executed in a well-coordinated and professional manner.
- ❖ All works shall be executed strictly in accordance with the item description, specifications and drawings. However, in absence of specifications, BIS/SEFA specifications, standards shall be followed along with relevant item description, technical specifications and drawings.
- ❖ Modular furniture should being combination of wooden, aluminum and steel fabrication. Steel & Aluminum components and should be epoxy polyester powder coated.

24. **Drawings & execution of work:**

- ❖ The work shall be executed as per the layout approved by In Charge. Drawings are listed and enclosed with this quotation document shall form a part of this specification and supplement the requirements specified therein. The quotation drawings are preliminary and meant for quotation purpose only. These drawings provide a general idea about the work to be performed under the scope of this contract and are by no means final drawings.
  - ❖ The contractor may suggest any changes in the design and layout which are necessary to make the design economical, optimal, conform to the provisions of this tender document. Such changes will again be subject to the prior approval of In-Charge but never relieve the contractor of its responsibility and liabilities under this contract. Upon approval of layout, the contractor shall prepare shop drawings for fabrication/assembly/joineries etc. All manufacturing, fabrication, assembly work in connection with the item shall be undertaken by the contractor after the approval of shop drawings by the In Charge.
  - ❖ Manufacturer should have valid ISO-9001-2008, ISO-14001-2004, OHSAS 18001- 2007/45001:2018 certification/certified company and should also have SEFA membership.
25. Bidder should have also successfully executed minimum two orders of equivalent or higher value (Purchase order and successful completion certificates must be enclosed).
26. In-Charge reserves the rights to inspect the manufacturing unit and completed works to ascertain the quality and workmanship of the firm to determine the qualifying bidders.

### **ADDITIONAL TERMS AND CONDITIONS**

- 1) The indenting bidder must have in its name as Prime Contractor experience of having successfully completed similar works / Purchase order during last Seven years ending last date of the bid closing.
- 2) The average annual turnover of the bidder in the preceding three (3) years ending 31<sup>st</sup> march 2025 should not be less than 50% of tender value. For this purpose, bidder must need to furnish supporting document for the same i.e., annual report/C.A. attested turn over certificate. Non-compliance shall result in rejection of tender.
- 3) **Warranty: The goods supplied should be with 2 years onsite warranty with comprehensive maintenance and should include delivery, onsite installation and onsite trainings.**
- 4) Delivery of complete material needs to be completed at location strictly within completion period of confirmed Work order. If Failure to complete within stipulated delivery period shall result in EMD being forfeited and also the contract agreement shall be terminated.
- 5) The bidder must enclose a notarized certificate that the Organization has not been blacklisted by any institution of the Central/State government / PSU/University/Institute etc. in the past three years.
- 6) The bidder should be a Proprietorship Firm/Partnership firm/Company. No consortium is allowed, Relevant declaration in the support of this statement must be submitted.
- 7) Only those Financial Bids will be opened and evaluated which are found to fulfill all the eligibility and qualifying requirements of this Tender

Signature of bidder  
With name & Seal

## Instructions to the Bidders

**Name of Work : Renovation/Upgradation related Works of the Physics and Chemistry Laboratories at University of Kota, Kota**

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | Scope of Work: Execution of items as stipulated in BOQ.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 2.  | Tender documents shall be submitted wholly without detaching any part.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 3.  | Tenders shall be for the entire scope of the work mentioned in the tender documents.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 4.  | All the pages of tender documents shall be signed by the tender.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 5.  | If due to any reason the tender opening is postponed to any other date, the details will be displayed on web site <a href="http://eproc.rajasthan.gov.in">http://eproc.rajasthan.gov.in</a> . Tenders shall see the web site <a href="http://eproc.rajasthan.gov.in">http://eproc.rajasthan.gov.in</a> regularly and keep themselves informed in this matter.                                                                                                                                                                                                                                                                                                                                                                                                             |
| 6.  | Before quoting, the bidders may contact the “University” and fully understand the job, scope of works, unit of measurements, mode of measurements, if any, working conditions, shut down arrangements, labour deployment requirements, risk contingencies, and such other factors which may affect their tender. The contractor should visit the site and acquaint himself with the site conditions before quoting for the work as approaches to site etc. He should also sign every page of the tender document in token thereof.                                                                                                                                                                                                                                        |
| 7.  | The tenders shall study and understand the entire tender documents before quoting on website <a href="http://eproc.rajasthan.gov.in">http://eproc.rajasthan.gov.in</a> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 8.  | <b>Bid Validity: - 90 days</b> from the opening of technical bid.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 9.  | <b>Bid Security, RISL FEES, Tender fees: -Demand Draft of Bid Security amounting to Rs- 270000.00 in favour of Registrar, University of Kota, Kota.</b> Separate demand draft of RISL fees in favour of MD RISL JAIPUR which is non refundable. Similarly separate demand draft for Tender fees (Drawn in favour of REGISTRAR UNIVERSITY OF KOTA, KOTA) which is also non refundable. All Demand Draft shall be valid for a period of three months from the tender opening date.                                                                                                                                                                                                                                                                                          |
| 10. | <b>MODE OF SUBMISSION OF TENDER:</b> The offer shall be submitted in two envelopes System on website <a href="http://eproc.rajasthan.gov.in">http://eproc.rajasthan.gov.in</a> . <b>FIRST ENVELOPE</b> super-scribed as <b>TECHNICAL BID ENVELOPE</b> with name of work, name of the contractor, tender notice number should contain the copies of all DDs as mentioned in the tender notice and pre-qualification documents, criteria eligibility/experience and other relevant documents as mentioned in the tender document. <b>SECOND ENVELOPE</b> should contain price bid in its prescribed format of BOQ in rate format                                                                                                                                            |
| 11. | <b>Original DD OF TENDER FEES, RISL FEES &amp; EARNEST MONEY HAS TO BE SUBMITTED IN THE OFFICE OF THE REGISTRAR UNIVERSITY OF KOTA, KOTA BEFORE DATE &amp; TIME PRESCRIBED IN NOTICE INVITING TENDER.</b> The first cover <b>TECHNICAL BID ENVELOPE-1</b> shall be opened only for the bidder who have submitted <b>Original DD OF TENDER FEES, RISL FEES &amp; Earnest money D.D. University of Kota IN THE OFFICE OF THE REGISTRAR UNIVERSITY OF KOTA, KOTA BEFORE DATE &amp; TIME PRESCRIBED IN NOTICE INVITING TENDER</b> and only on satisfying the eligibility criteria & money adequacy of cost of tender document , <b>BID SECURITY</b> etc., placed in it, then only second cover ( <b>ENVELOPE-2</b> ) containing the price bid i.e. <b>BOQ</b> will be opened. |
| 12. | <b>The date and time of opening of the price bid along with names of successful tenders in pre-qualification will be subsequently displayed on the <a href="http://eproc.rajasthan.gov.in">http://eproc.rajasthan.gov.in</a> in and no individual communication to tenders will be made.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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| 13. | The documents submitted in the first envelope by the tenderers in respect of pre-qualification criteria are final and no further correspondence/clarifications/submission in this regard will be entertained.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 14. | Scope of work, Bill of Quantities (BOQ), terms and conditions given in the tender documents (placed in the web site) are final. On verification at any time whether the tender is successful or not, if any of the documents submitted by the tender including the documents down-loaded from website are found tampered/alterd/incomplete, they are liable for action like rejection of the tender, cancellation and termination of Contract, debarring etc., as per rules of the UNIVERSITY.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 15. | The University of Kota, Kota reserves the right to accept/reject any or all tenders either in part or in full or to split up and award the work to more than one agency without assigning any reasons thereof and without any liability to university of Kota, Kota.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 16. | If it comes to the notice of university of Kota at any stage right from request for tender document that any of the certificates/document submitted by bidders are found to be false/fake/doctored, the party will be debarred from Participation in all university tenders for a period of 05 years including termination of contract, if awarded. Bid security/ Security Deposit, etc if any will be forfeited. The contracting Agency in such cases shall make good to university any loss or damage resulting from such termination. Contracts in operation anywhere in university will also be terminated with attendant fall-outs like forfeiture of Bid security / Security Deposit, if any, and recovery of risk and cost charges, etc. The tender documents and other details can be down-loaded from web site and the same are to be submitted on <a href="http://eproc.rajasthan.gov.in">http://eproc.rajasthan.gov.in</a> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 17. | <p><b><u>MINI MUM ELI GIBILI TY CRITERIA:</u></b> -The bid for those bidders shall only be considered as responsive who fulfills following eligibility criteria: -</p> <ol style="list-style-type: none"> <li>1. The Bidder should have satisfactorily completed similar projects (i.e. Development of various academic or industrial Labs) as defined total amounting to 80% as single order OR 60% in two orders OR 40 % Three orders OR 25% Five work orders in past 7 years of tender value. The order copies with successful delivery/installation proofs should be attached by the bidder. The order Copies should relevant with Similar projects in institutional projects of central /State Govt. /Govt. Undertakings.</li> <li>2. The bidder should attach proof of having experience of maintenance of ICT items in form of AMC contract etc.</li> <li>3. Minimum average Turnover of last 5 years should be 50% of total tender value. CA certified turnover certificate should be attached.</li> <li>4. Required authorizations issued by respective OEMs must be attached with technical bid by the bidder for sales, post sales services and backend OEMs support.</li> <li>5. Copy of Registration Certificate under GST.</li> <li>6. Copy of PAN No.</li> <li>7. Bank's Cancelled Cheque copy.</li> <li>8. The bidder should submit affidavit regarding trueness of facts/information provided in for tender along with NON blacklisting declaration on single 100/- non-judicial Stamp.</li> <li>9. DD. Amounting Rs. in favour of Registrar, University of Kota, Kota tender Fee DD Rs. 3000/- &amp; RISL Fee Rs. 2000/- in favour of M.D. RISL Jaipur.</li> <li>10. The Bid shall have to be submitted in two envelope system i.e. <ol style="list-style-type: none"> <li>A. Technical bid (containing all self-signed copies of eligibility criteria 1 to 9 above).</li> <li>B. Financial bid</li> </ol> </li> </ol> |

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| 18. | The Interested bidders may submit their on-line bids along with separate Demand Drafts drawn in favour of “Registrar, University of Kota, Kota” payable at Kota towards the cost of Tender Fee (non-refundable) and RISL Processing Fee (Non-refundable) demand draft shall be in favour of “Managing Director, RISL” payable at Jaipur.                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                            |             |             |
| 19. | The above original demand drafts & must reach physically in the office of Procurement Entity, i.e. REGISTRAR University of Kota, Kota. on or before last date as mentioned in notice inviting E-bid, failing which bids shall not be considered.                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                            |             |             |
| 20. | The Technical bid shall be opened on <b>14/08/2026 at 4:00 P.M.</b> (in the same office) in the presence of bidders who wish to be present. Time & date of opening the financial E-bid of Technically qualified bidders, as above, will be displayed by the university on website <b><a href="http://eproc.rajasthan.gov.in">http://eproc.rajasthan.gov.in</a></b> . <b>only &amp; no individual communication with responsive bidders will be made in this regard by the university.</b> |                                                                                                                                                                                                                                                                                                                                                                            |             |             |
| 21. | <b>Bidding schedule regarding Procurement of work as also mentioned in NIB is as under -</b>                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                            |             |             |
|     | <b>S. No.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Particular</b>                                                                                                                                                                                                                                                                                                                                                          | <b>Date</b> | <b>Time</b> |
|     | <b>1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Start date and time of downloading of bid documents                                                                                                                                                                                                                                                                                                                        | 30/07/2026  | 11.00 A.M   |
|     | <b>2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Last date and time for online submission of bid                                                                                                                                                                                                                                                                                                                            | 13/08/2026  | 05.00 P.M   |
|     | <b>3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Last date and time for physical submission of original D.D. of tender fees, tender processing fees, & bid security and Rs. 100/- non judicial stamp paper regarding trueness of facts/ information along with NON blacklisting declaration provided for in the tender document in the office of the registrar University of Kota, Kota. MBS Marg, Near Kabir circle, Kota. | 14/08/2026  | 02.00 P.M   |

SIGNATURE OF BIDDER WITH SEAL

## Bill of Quantities

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| <b>01</b> | The quantities are probable and the bid submitted by the tenderer should be based on probable quantities of the item of the work which are furnished for the tenderer's convenience in the Bill of Quantities. <b>The given quantities in BOQ are tentative &amp; may vary. Payment shall be made on actual quantity of work executed on approved rates as per day-to-day requirement during the year and there is no guarantee for minimum Qty of any item to be executed, hence bidder shall quote self sustainable rates accordingly, no claim on account of execution of lesser qty or lesser work amount will be entertained by the university. Quantities in the BOQ are taken tentatively for annual rate contract only, looking to the day-to-day requirement which may arise during the year but execution of these depends on the requirement during year.</b> |
| <b>02</b> | The quantities are approximate and may vary as per RTPP RULES. Payment shall be made as per the actual work carried out and the corresponding unit rate quoted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>03</b> | The contractor is advised to visit the site to acquaint himself the nature and scope of work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>04</b> | The work is to be executed as per the directions of the UNIVERSITY and the contractor is to mobilize men and material at short notice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>05</b> | Contractors should factor in prices for storage etc. None will be provided for at site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>06</b> | Contractor to be responsible for hiring / operating of all machines / equipment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

SIGNATURE OF BIDDER WITH SEAL

## **Special Terms & Conditions**

These conditions of contract shall be read in conjunction with the other contract documents, ANNEXURE A to D, preamble to bill of quantities, bill of quantities. These **Special Terms & Conditions will be the part of the agreement.**

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| 1. | Conditional tender will not be accepted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2. | The R.T.P.P. rule 2013 shall govern the Contract                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3. | <b>The rates quoted by the contractor shall be including GST and all other taxes levied by the govt. time to time.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 4. | All other Terms& Conditions are as per Rajasthan Transparency in public procurement Rules. 2013.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 5. | <b>The Contract will be for 90 days from the date of issue of work order, however same can be extended with mutual consent on the same terms conditions&amp; already approved rates maximum for three months.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 6. | <b>The bidder must visit the site and assess/ survey the condition of works to be executed at various locations in the University campus, Rates shall be quoted accordingly. All T&amp;P and other Misc. Items as directed shall be arranged by the bidder at his own cost, rates quoted shall be inclusive of all Charges/ taxes (if any) bidder has to comply all labour rules. Work is to be executed at all height with all leads no extra payment will be made on this account. In case of any mishappening at site, the contractor/agency shall be sole responsible for any sort of compensations.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 7. | <b>Successful bidder will have to execute agreement on the prescribed format on his cost on non judicial stamp paper as per work order amount @ 0.25% &amp; Performance guarantee at the rate of 5% of the value of the work order amount as per rules within 10 days of issue or the work order. Performance guarantee may be deposited in the form of cash, bank guarantee or FDR of nationalized bank only in favour of REGISTRAR UNIVERSITY OF KOTA which shall be valid for fourteen months from date issue of work order. FDR of nationalized bank shall be in the name of REGISTRAR UNIVERSITY OF KOTA on account of bidder and discharged by the bidder in advance. Bidder has to furnish an undertaking from the bank to make payment premature payment of the Fixed Deposit Receipt on demand to the REGISTRAR UNIVERSITY OF KOTA without requirement of consent of the bidder concerned. In the event of forfeiture of the Performance guarantee, the Fixed Deposit shall be forfeited along with interest earned on such Fixed Deposit.</b> |
| 8. | The contractor will be responsible for deployment of sufficient man power as per requirement along with supervisor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 9. | <b>Compensation for delay</b><br>The times and date stipulated in the contract for the completion of the work or any part or stage thereof shall be deemed to be the essence of the contract.<br>The work shall, throughout the stipulated period of the contract, be carried out with all diligence. If the contractor fails to complete the work within the time prescribed or within the extended time under the contract, he shall pay to the Employer on demand amount without prejudice to other rights and remedies the Employer may have against the contractor, a sum of Rs. 2,000/-(rupees one thousand per week) as liquidated damages for such fault, if the ordered work as per demand arises during the contract period remain unfinished after the stipulated date of completion, then maximum 10% penalty will be imposed of unfinished work amount which was ordered as per                                                                                                                                                            |

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|     | requirement during the year. The Employer may, without prejudice to any other method of recovery, deduct the amount of such damages from any money due or which become due to the contractor. The recovery or deduction of such damages shall not relieve the contractor from any obligations and liabilities under the contract.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 10. | The contractor will be responsible for procurement of all/any materials as per approved quality required for completion of job at any time. Storage space on request, if available, may be provided free of cost the university. If the storage space is not provided by the university, then the contractor will have to arrange the same at his own                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 11. | Payment bill within limit of work order amount and bill shall be submitted for executed works by the contractor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 12. | All the materials required as per B.O.Q. for the work shall be arranged by the contractor at his own cost and risk.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 13. | If performance of the agency is not found satisfactory, the job will be terminated with forfeiture of performance guarantee amount.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 14. | <p><b><u>SAFETY CODE:</u></b></p> <p>The contractor shall abide by the safety regulations of the employer, or as required by the engineer, in respect of all labour engaged for the performance of the works and shall provide all the facilities in connection therewith. The contractor shall be responsible for following the provisions of all labour laws and rules made there under and other statutory requirements. The contractor shall ensure that necessary safety appliances are being used by his employees and workers working at site, particularly those engaged in work, without which the employees and workers shall not be permitted to be engaged on the work.</p> <p>The contractor shall be responsible for the safety of his labour and employees. The contractor shall be responsible for making all safety arrangements in the execution of work and shall employ trained workmen conversant with safety regulations. The contractor shall use only tested equipment and tools and shall periodically conduct tests according to standard procedures laid and such certificates shall be readily available for inspection at the site of work. He shall replace any tools, if so asked by the Engineer. The contractor shall be responsible for following all safety regulations and report all accidents to the concerned authorities and the engineer. The employer reserves the right to issue directions regarding safety and such directions shall be immediately implemented by the contractor.</p> |
| 15. | <p><b><u>UNAUTHORISED USE OR MISUSE OF EMPLOYER'S/PUBLIC PROPERTY OR UTILITIES.</u></b></p> <p>The contractor and his employees/workmen and the contractor's sub-contractor and their employees/workmen are forbidden to unauthorized use or misuse the employer's/public property or utility and if any such unauthorized use/misuse occurs, the employer may take severe action against the contractor including for direct and indirect damages losses, etc for removal of their workmen concerned and forfeiture of performance guarantee, in addition to statutory and legal actions on the contractor. Such recurrent action by the contractor will also be considered as persistent negligence on the part of the contractor to carry out his obligation under the contract.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 16. | <p><b><u>ENVIRONMENT, SAFTY &amp; HEALTH. FOR GREEN &amp; CLEAN UNIVERSITY CONCEPT</u></b></p> <p><b>The following environment, safety &amp; health points are to be adhered:</b></p> <p>a) <b>The contractor must adhere to all the applicable statutory laws pertaining to safety, health and environment.</b></p> <p>b) <b>The contractor must ensure that there is no wastage of water at the work site.</b></p> <p><b>The contractor must also ensure that all the water tapping points are leak proof</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|     | <p><b>&amp; lids of water tanks shall be fixed properly after any repairing work.</b></p> <p>c) All the motor vehicles of the contractor used for transporting materials/machinery, etc should have pollution control certificates. A copy of the same must be exhibited / pasted on the vehicle.</p> <p>d) The contractor must ensure dust suppression measures in the work areas by sprinkling of water, etc and also ensure that all his workers use dust masks while working in dusty areas.</p> <p>e) The contractor must ensure proper house keeping at site by keeping the work areas free from unwanted material and greases, oil to avoid slips and falls.</p> <p>f) The contractor must ensure that all the debris generated during the work is transported safely to dump yard such that there is no spillage of debris on the road during transportation (by covering with a plastic sheet/tarpaulin</p> <p>g) All the material which may be recycled/reused should be transported to the designated place for reuse/recycling.</p> <p>All representatives/supervisors/workers of contractors must take safety and environmental safety measures and comply with the instructions given therein.</p> |
| 17. | <b>The university shall bear liberty and is empowered to deduct the amount of any damages, compensation costs, charges and expenses arising or occurring from or in respect of any claim or damage from any sum or sums due to or become due to the contractor including the security deposit.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 18. | The rates quoted in the tender shall be firm and shall not be subject to any escalation till the completion of work due to increase in the prices of materials, labour wages sales Tax etc. for any reasons, whatsoever.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 19. | Quality of materials and workmanship shall conform strictly to tender specifications and Contractor will ensure will ensure that the quality of work is appropriate to the specifications and the work is done to the satisfaction of the Architect with strict control on the materials, workmanship and supervision.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 20. | The whole of the work including electrical / plumbing / sanitation is to be complied with as per the requirements and byelaws of the relevant statutory authorities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 21. | The Contractor shall get the all the material approved by the UNIVERSITY in consultation with the employer prior to its use. The contractor shall keep one set of samples of materials approved UNIVERSITY by the for its ready reference at site of work and shall ensure that the materials incorporated in the works strictly conform to the sample approved.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 22. | All other materials for use in the work shall be got approved by the UNIVERSITY before placing order / procurement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 23. | The contractor shall assist in taking the measurements by the UNIVERSITY representatives, before covering up or otherwise placing beyond there each of measurements any, item of work. Should the contractor neglect to do so the same shall be uncovered at the Contractor's expense and if found to be executed in default of specifications/requirements, no payment or allowance shall be made for such work and Contractor shall have to remove and re-do the same at his own cost.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 24. | The whole of the work as described in the Contract (including the Bill of Quantities, the Specifications, General / Special Conditions pertaining thereto) and as advised by the university engineer from time to time is to be carried out and completed in all its parts to the entire satisfaction of the university. Any details of execution, which may not have been definitely referred to in this contract, but which are usual in interior works and essential to the work, are deemed to be included in this contract. Rates quoted in the Schedule shall be inclusive of all freights, taxes, Royalties, work contract tax, GST etc., as well as transportation, so as to execute the contract as per the rules and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|     | <p>regulations of local bodies, and Government of India/Rajasthan.</p> <p>The rates quoted in the tender should include all charges for: -</p> <p>a) Labour, maintenance, Fixing, carrying, Cleaning, making good, hauling, watering etc.</p> <p>b) Plant, Scaffolding, frame work, English ladders, ropes, nails, spikes, tools, materials and workmanship protection from weather, shuttering, temporary supports, Platform etc.</p> <p>c) Regarding temporary canvas, lights, barricades etc. the university engineer will be the sole judge in deciding as the suitability of the tools or plants that might be brought to the site of works by the Contractor for the proper execution of the work.</p> |
| 25. | The Contractor workmen may be allowed to work on Sundays/Holidays subject to the prior permission of the same by the Employer. No extra cost claim would be entertained for the above.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 26. | All required T&P and staging material has to be arranged by the contractor at his own cost to full fill the obligations of the contract, university will not make any payment on this part & deemed to be included in BOQ ITEMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 27. | In case of any dispute jurisdiction of court will be at Kota only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 28. | <p><b>Suspension of Work</b></p> <p>The contractor shall on the written order of The Registrar of university to suspend the progress of the work or any part thereof for such time or time and in such a manner as The Registrar of university may consider necessary and shall during such suspension properly protect and secure the work as considered necessary in the opinion of the Registrar of university or their representative-in-charge of the work. No compensation shall be payable to the contractor on what so ever account for the suspension of work.</p>                                                                                                                                  |
| 29. | <p><b>Rectification of Defects</b></p> <p>If, it shall appear to the university or his representative in-charge of the works that any work any has been executed with unsound, imperfect or un-skillful workmanship or material or any inferior description, the contractor shall, on demand, in writing from the university specifying the work material or articles complained of shall rectify or remove and reconstruction work so specified in part, as the case may require.</p>                                                                                                                                                                                                                       |
| 30. | <p><b>Claim for Interest</b></p> <p>No claim for interest will be entertained by the Employer with respect to any moneys or balances which may be in its hands owing to a dispute between itself and the contractor or with respect of any delay on the part of the employer in making interim or final payments or otherwise.</p>                                                                                                                                                                                                                                                                                                                                                                           |
| 31. | Quality of materials and workmanship shall conform strictly to tender specifications and Contractor will ensure will ensure that the quality of work is appropriate to the specifications and the work is done to the satisfaction of the Architect with strict control on the materials, workmanship                                                                                                                                                                                                                                                                                                                                                                                                        |
| 32. | The contractor shall assist in taking the measurements by the UNIVERSITY representatives, before covering up or otherwise placing beyond there each of measurements any, item of work. Should the contractor neglect to do so the same shall be uncovered at the Contractor's expense and if found to be executed in default of specifications/requirements, no payment or allowance shall be made for such work and Contractor shall have to remove and re-do the same at his own cost.                                                                                                                                                                                                                     |
| 33. | <b>All dismantled debris are to be disposed as directed by the university, no extra payment on account of lead, lift, transportation etc. will be made by the university, all these shall be included in the rates quoted by the bidder.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 34. | <p><b><u>AUTHORISED AGENT</u></b></p> <p>The contractor shall have a duly authorized agent at site from the commencement to the completion of the work. Such agent shall be authorized to act on behalf of the Contractor, to accept notices under the contract and to agree to extra and varied items of works and rates for the same. Such agent shall maintain in his staff, qualified, efficient engineers, and such other personnel as may be required for efficient execution of the works. Any notice under the contract shall be deemed to have been served on the contractor if served upon such agent at site or sent by registered letter to the agent's address. The agent shall not be changed (unless required by the Engineer) and continued till completion of the contract unless the consent of the engineer has been previously obtained for the change of the Agent.</p> |
| 35. | <p><b>The successful bidder shall not assign or sublet his contract or any substantial part thereof to any other agency.</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

Signature of the bidder with Seal

**Compliance with Code of Integrity and Conflict of Interest**

**Code of Integrity: -**

Any person participating in procurement process shall -

- (a) not offer any bribe, reward or gift or any material benefit either directly or indirectly in exchange for an unfair advantage in procurement process or to otherwise influence the procurement process;
- (b) not misrepresent or omit information that misleads or attempts to mislead so as to obtain a financial or other benefit or avoid an obligation;
- (c) not indulge in any collusion, bid rigging or anticompetitive behaviour to impair the transparency, fairness and progress of the procurement process;
- (d) not misuse any information shared between the procuring entity and the bidders with an intent to gain unfair advantage in the procurement process;
- (e) not indulge in any coercion including impairing or harming or threatening to do the same, directly or indirectly, to any party or to its property to influence the procurement process;
- (f) not obstruct any investigation or audit of a procurement process;
- (g) disclose conflict of interest, if any; and
- (h) disclose any previous transgressions with any entity in India or any other country during the last three years or any debarment by any other procuring entity.

**Conflict of Interest: -**

The bidder participating in a bidding process must not have a Conflict of Interest.

A Conflict of Interest is considered to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations.

A Bidder may be considered to be in Conflict of Interest with one or more parties in a bidding process if, including but not limited to:

- a. have controlling partners/shareholders in common; or
- b. receive or have received any direct or indirect subsidy from any of them; or
- c. have the same legal representative from purpose of the Bid; or
- d. have the relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bid of another Bidder, or influence the decision of the Procuring Entity regarding the bidding process; or
- e. The Bidder participates in more than one Bid in a bidding process. Participation by a Bidder in more than one bid will result in the disqualification of all Bids in which the Bidder is involved. However, this does not limit the inclusion of the same subcontractor, not otherwise participating as Bidder, in more than one Bid; or
- f. The Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specification of the Goods, Works or Service that are the subject of the Bid; or
- g. Bidder or any of its affiliates has been hired (or is proposed to be hired) by the Procuring Entity as engineer-in-charge /consultant for the contract.

Date:

Place:

**Signature of the Bidder with Seal**

**Declaration by the Bidder regarding Qualifications**

*(To be submitted by the bidder on his Letter Head)*

In relation to my/our Bid submitted to ..... for procurement of ..... in response to their Notice Inviting Bids No. .... Dated ..... I/We hereby declare under section 7 of Rajasthan Transparency in Public Procurement Act, 2012, that:

1. I/We possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Procuring Entity;
2. I/We have fulfilled my/our obligation to pay such of the taxes payable to the union and the State Government or any local authority as specification in the Bidding Document;
3. I/We have been not insolvent in receivership, bankrupt or being wound up, not have my/our affairs administrated by a court or a judicial officer, not have my/our business activities suspended and not the subject of legal proceeding for any of the foregoing reasons;
4. I/We do not have, and our directions and officers not have, been convicted of any criminal offence related to my/our professional conducted or the making of false statement or misrepresentations as to my/our qualifications to enter into a procurement contract within a period of three years preceding the commencement of this procurement process, or not have been otherwise disqualified pursuant to debarment proceeding;
5. I/We do not have a Conflict of Interest as specification in the Act, Rules and the bidding document, which material affects fair competition.

Date:  
Place:

**Signature of the Bidder with Seal**  
Name:  
Designation:  
Address:

**Grievance Redressal during Procurement Process**

The designation and the address of the First Appellate Authority:

**Hon'ble Vice-Chancellor, University of Kota.**

The designation and the address of Second Appellate Authority:

**Additional Chief Secretary, Higher Education, Government of Rajasthan.**

**(1) Filing an Appeal:**

If any bidder or prospective bidder is aggrieved that any decision, action or omission of the Procuring Entity is in contravention to the provisions of the Act or the Rules or the Guidelines issued there under, he may file an appeal to first Appellate Authority, as specified in the Bidding Document within a period of ten days from the date of such decision or action, omission, as the case may be, clearly giving the specific ground or grounds on which, he feels aggrieved:

Providing that after the declaration of a Bidder as successful the appeal may be filled only by a Bidder who has participated in procurement proceeding:

Providing further that in case a Procuring Entity evaluates the Technical Bids before the opening of the Financial Bids; an appeal related to the matter of Financial Bids may be filled only by a Bidder whose Technical Bid is found to be acceptable.

- (2) The officer to whom an appeal is filled under para (1) shall deal with the appeal as expeditiously as possible and shall endeavour to dispose it of within thirty days from the date of the appeal.
- (3) If the officer designated under para (1) fails to dispose of the appeal filed within the period specified in para (2), or if the Bidder or prospective bidder or the Procuring Entity is aggrieved by the order passed by the Procuring Entity, as the case may be, may file a second appeal to second Appellate Authority specified in the Bidder Document in this behalf within fifteen days from the expiry of the period specified in para (2) or of the date of receipt of the order passed by the first Appellate Authority, as the case may be.

**(4) Appeal not to lie in certain cases:**

No appeal shall lie against any decision of the Procuring Entity relating to the following matters, namely: -

- (a) determination of need of procurement
- (b) provisions limiting participating of Bidders in the Bid process;
- (c) the decision of whether or not to enter into negotiations;
- (d) cancellation of a procurement process;
- (e) applicability of the provisions of confidentiality

**(5) Form of Appeal:**

- (a) An appeal under para (1) or (3) above shall be in the annexed form along with as many copies as there are respondents in the appeal.
- (b) Every appeal shall be accompanied by an order appealed against, if any, affidavit verifying the facts stated in the appeal and proof of payment of fee.
- (c) Every appeal may be presented to first Appellate Authority or Second Appellate Authority, as the case may be, in person or through registered post or authorized representative.

**(6) Fee for Filing Appeal:**

- (a) Fee for first appeal shall be two thousand five hundred and for second appeal shall be rupees ten thousand, which shall be non-refundable.
- (b) The fee shall be paid in the form of bank demand draft or banker's cheque of a Scheduled Bank in India payable in the name of Appellate Authority concerned.

**(7) Procedure for Disposal of Appeal**

- (a) The first Appellate Authority or Second Appellate, as the case may be upon filing of appeal, shall issue notice accompanied copy of appeal, affidavit and documents, if any, to the respondents and fix date of hearing.
- (b) On the date of fixed for hearing, the First Appellate Authority or second Appellate Authority, as the case may be shall, -
  - (i) hear all the parties to appeal present before him; and
  - (ii) Peruse or inspect documents, relevant records or copies thereof relating the matter.
- (c) After hearing the parties, perusal or inspection of documents and relevant records or copies thereof relating to the matter, the Appellate Authority concerned shall pass an order in writing and provide the copy of order to the parties to appeal free of cost.
- (d) The order passed under sub-clause (c) above shall also be placed on the State Public Procurement Portal.

**FORM No. 1**  
**[See rule 83]**

**Memorandum of Appeal under the Rajasthan Transparency in Public Procurement Act, 2012**

*(To be submitted by the bidder on his Letter Head)*

Appeal No .....of .....

Before the ..... (First / Second Appellate Authority)

1. Particulars of appellant:

- (i) Name of the appellant:
- (ii) Official address, if any:
- (iii) Residential address:

2. Name and address of the respondent(s):

- (i)
- (ii)
- (iii)

3. Number and date of the order appealed against and name and designation of the officer / authority who passed the order (enclose copy), or a statement of a decision, action or omission of the procuring entity in contravention to the provisions of the Act by which the appellant is aggrieved:

4. If the Appellant proposes to be represented by a representative, the name and postal address of the representative:

5. Number of affidavits and documents enclosed with the appeal:

6. Grounds of appeal:

.....

(Supported by an affidavit)

7. Prayer:

.....

Place .....

Date .....

**Appellant's Signature**

**Additional Conditions of Contract**

**1. Correction of Arithmetic Errors:**

Provided that a Financial Bid is substantially responsive, the procuring entity will correct arithmetical errors during evaluation of Financial Bids on the following basis:

- (i) if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the procuring entity there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;
- (ii) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- (iii) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (i) and (ii) above.

If the Bidder that submitted the lowest evaluated Bid does not accept the correction of errors, its Bid shall be disqualified and its Bid Security shall be forfeited or its Bid Securing Declaration shall be executed.

**2. Procurement Entity's Right to Vary the Quantity:**

- (i) At the time of award of contract, the quantity of goods, works or services originally specified in the Bidding Document may be increased or decreased by a specified percentage, but such increase or decrease shall not exceed **twenty percent**, of the quantity specified in the Bidding Document. It shall be without any change in the unit prices or other terms & conditions of the Bid and the conditions of contract.
- (ii) If the procuring entity does not procure any subject matter of procurement or procures less than the quantity specified in the bidding documents due to change in circumstances, the bidder shall not be entitled for any claim or compensation except otherwise provided in the conditions of contract.
- (iii) In case of procurement of goods or services, additional quantity may be procured by placing a repeat order on the rates and conditions of the original order. However, the additional quantity shall not be more than 25% of the value of goods of the original contract and shall be within one month from the date of expiry of last supply. If the Supplier fail to do so, the procuring entity shall be free to arrange for the balance supply by limited Bidding or otherwise and the extra cost incurred shall be recovered from the Supplier.

**3. Dividing quantities among one than more Bidder at the time of Award (in Case of Procurement of Goods):**

As a general rule, all the quantities of the subject matter of procurement shall be procured from the Bidder, whose Bid is accepted. However, when it is considered that the quantity of the subject matter of procurement to be procured is very large and it may not be in the capacity of the Bidder, whose Bid is accepted, to deliver the entire quantity or when it is considered that the subject matter of procurement to be procured is of critical and vital nature, in such cases, the quantity may be divided between the Bidders, whose Bid is accepted and the second lowest Bidder or even more Bidders in that order, in a fair, transparent and equitable manner at the rates of the Bidder, whose Bid is accepted.

Date:

**Signature of the Bidder with Seal**

Place:



# University of Kota, Kota

MBS Marg, Near Kabir Circle, Kota  
Ph No.-0744-2472934 e-mail ID: registrar@uok.ac.in

## **BOQ**

(To be submitted online)

1. **Name of Work** : **Renovation/Upgradation related Works of the Physics and Chemistry Laboratories at University of Kota, Kota**
2. **NIB No.** :
3. **Name of the Bidder/Company** :

| S. No.                              | Name of Lab                   | Technical specifications of the Work                                                | Qty | Unit | Unit Rate with all taxes and FOR at UOK (in Rs.) | Total Amount with all taxes (in Rs.) |
|-------------------------------------|-------------------------------|-------------------------------------------------------------------------------------|-----|------|--------------------------------------------------|--------------------------------------|
| <b>A Physics Laboratories</b>       |                               |                                                                                     |     |      |                                                  |                                      |
| 1)                                  | Physics Lab: Room No-201      | Technical specifications and layout of the lab are described in the tender document | 01  | Set  |                                                  |                                      |
| 2)                                  | Physics Lab: Room No-212      | Technical specifications and layout of the lab are described in the tender document | 01  | Set  |                                                  |                                      |
| 3)                                  | Physics Lab: Room No-213      | Technical specifications and layout of the lab are described in the tender document | 01  | Set  |                                                  |                                      |
| 4)                                  | Physics Lab: Room No-214      | Technical specifications and layout of the lab are described in the tender document | 01  | Set  |                                                  |                                      |
| 5)                                  | Physics Lab: Room No-215      | Technical specifications and layout of the lab are described in the tender document | 01  | Set  |                                                  |                                      |
| 6)                                  | Physics Lab: Room No-216      | Technical specifications and layout of the lab are described in the tender document | 01  | Set  |                                                  |                                      |
| 7)                                  | Physics Lab: Room No-217      | Technical specifications and layout of the lab are described in the tender document | 01  | Set  |                                                  |                                      |
| 8)                                  | Physics Lab: Room No-218      | Technical specifications and layout of the lab are described in the tender document | 01  | Set  |                                                  |                                      |
| 9)                                  | Physics Lab: Room No-219      | Technical specifications and layout of the lab are described in the tender document | 01  | Set  |                                                  |                                      |
| 10)                                 | Physics Lab: Room No-220      | Technical specifications and layout of the lab are described in the tender document | 01  | Set  |                                                  |                                      |
| 11)                                 | Physics Lab: Room No-220      | Technical specifications and layout of the lab are described in the tender document | 01  | Set  |                                                  |                                      |
| <b>B Chemistry Laboratories</b>     |                               |                                                                                     |     |      |                                                  |                                      |
| 1)                                  | Chemistry Lab: Room No-118    | Technical specifications and layout of the lab are described in the tender document | 01  | Set  |                                                  |                                      |
| 2)                                  | Chemistry Lab: Room No-305    | Technical specifications and layout of the lab are described in the tender document | 01  | Set  |                                                  |                                      |
| 3)                                  | Chemistry Lab: Room No-306    | Technical specifications and layout of the lab are described in the tender document | 01  | Set  |                                                  |                                      |
| 4)                                  | Chemistry Lab: Room No-308    | Technical specifications and layout of the lab are described in the tender document | 01  | Set  |                                                  |                                      |
| 5)                                  | Chemistry Lab: Room No-309    | Technical specifications and layout of the lab are described in the tender document | 01  | Set  |                                                  |                                      |
| 6)                                  | Chemistry Lab: Room No303/304 | Technical specifications and layout of the lab are described in the tender document | 01  | Set  |                                                  |                                      |
| 7)                                  | Chemistry Lab: Room No310/311 | Technical specifications and layout of the lab are described in the tender document | 01  | Set  |                                                  |                                      |
| 8)                                  | Chemistry Lab: Room No310     | Technical specifications and layout of the lab are described in the tender document | 01  | Set  |                                                  |                                      |
| <b>Total Amount Quoted (in Rs.)</b> |                               |                                                                                     |     |      |                                                  |                                      |

Signature of the Bidder with seal