

Dated: 28-12-2024

File Ref No. PUR/IICT/1042/24-25/EQPT

GEM Bid No. GEM/2024/B/5719378 dt.18-12-2024

Pre-Bid minutes Meeting held on 27-12-2024 (2.00PM)

For Supply, Installation, and Commissioning of "Biosafety Level II Facility"

Chairpersons/Members of the Technical Sub Committee (TSC) present during PBC

Including experts present during PBC:

1. Dr. PratyayBasak, Chairman
2. Dr. G. Jithender Reddy, Member
3. Shri. D. Venkateswara Rao, Member
4. Dr. Sreepriya Vedantam, Member
5. IO/PL representatives: Dr C. Chandra Sekhar/Dr S. Venkata Mohan

Representatives of the following firm attended the PBC:

1. M/s. Yen plas private Limited
2. M/s. C S K Bio Consulting Pvt., Ltd.,
3. M/s. Mark Air-Particulate Control Systems
4. M/s. Sri Modular Clean Rooms

The following points were discussed during the PBC:

Common queries raised by above mentioned participated vendors

1. Standards-Related Queries

Q1: Two types of panels are generally used in facility development. Can you specify which type to use: Tongue and Groove or M-section?

Ans: M-section panels should be used for the facility.

Q2: What filling material should be used between panels: Honeycomb or PUF?

Ans: PUF is selected as the filling material.

Q3: What are the specifications for the door, including size, number, and insulation material?

Ans: The door size is 1.1meter (Width) x 2.1 meters (Height) (including the frame), with four doors. PUF is the insulation material and each door should have transparent view panel.

Q4: What type of flooring material is required?

Ans: Antifungal and antibacterial flooring is required for the facility.

Q5: Are electrical points under the scope of IICT?

Ans: 1. Main Electrical P.C.C panel will be shown by IICT Electrical Section

2. All Electrification points related to BSL II Facility to be carried out by the bidders including Providing, Laying and Termination etc.

3. Inspection, testing of all Electrical Gadgets to be carried out by bidders with third party certification

4. The adequate lighting of 400-500 lux or better illumination throw out facility, Ceiling and other components of fixtures are should be air tight

C. Chandra Sekhar

S. Venka Sekh

5. A minimum of 6 power sockets is required in both the main lab area and the instrument area. In the change room, a minimum of 4 power sockets is required.

6. All Technical drawings etc., to be prepared by the bidders and to be executed, electrical work to be carried out in coordination with CSIR-IICT Electrical department

Q6: Specify the dimensions and type of floor for work tables in the main lab

Ans: 2 meter length X 0.7 meters width X 0.75 meters Height table with granite top. Table should have drawers and leg space

Q7: Are UV lamps required in the room?

Ans: Two UV lamps with timers and auto cut-off features for a specific time period are required in the main room

Q8: Two door airlock systems are needed for the room?

Ans: Yes, two door airlock systems is needed

Q9: Bidders need to provide the revised layout for the BSL-II facility?

Ans: Yes, all bidders must submit the layout specifying the material thickness in the partition wall, type of AHU used for BSL-II facility

2. Containment Features

Q1: What is the specified incineration temperature at the exhaust?

Ans: The incineration temperature should be maintained at 60°C–90°C.

3. Sterile and Pass-through Systems

Q1: What are the dimensions, construction material, and features of the dynamic pass box? Should it have UV light, and should it be two-side or three-side opening?

Ans: The dynamic pass box should have the following specifications:

- Outer dimensions: 2 x 2 feet
- Material: Polycarbonate with GI coated material for external and SS 304 material for internal
- Features: UV lamp
- Opening: Two-side opening

Q2: What is the material of construction for the garment cabinet, and what coating is required for the doors? Should the doors be sliding or opening?

Ans: The garment cabinet should be constructed from polycarbonate, with both internal and external surfaces coated with GI. The doors should be hinged (opening outward) and include polycarbonate sheets for the door panels.

4. Safety

Q1: Is plumbing within the scope of IICT? What are the material and dimensions of the sink?

Ans: Plumbing is not within the scope of IICT; however, source of water tank is just above the facility roof, need to draw from tank and the drain should connect to the drain

Q2: Wash basin and eye washer in the main lab area can lead to contamination?

C. Chandran Sekhon

S. K. S. Sen

Ans. The eye washer has been relocated to the instrument room to prevent contamination. Additionally, the wash basin and working table have been excluded from the bidder's scope.

5. Validation Requirements

Q1: Is a parameter display unit required?

Ans: A digital display unit showing day-to-day temperature, pressure, and relative humidity (RH) is required.

6. Certification requirements

Q1: Validation can be carried out by the bidder?

Ans: The facility validation should be conducted in both resting and operational conditions with NABL-certified equipments' by third party.

In addition

- *AHU to be placed on cement platform (1 feet height) with vibrations pads.*
- *Outside door units are need to place either floor mounting stand/wall mounting stand*
- *All internal corners should be finished with PVC covings*
- *100mm Wall partition between the chambers including View windows*

The above requirements are recommended by the PBC.

C. Chandrasekhar

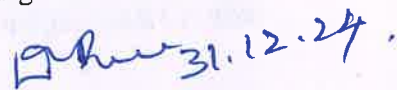
J. Venkatesh

Points Clarified by CSIR-IICT Team during PBC:

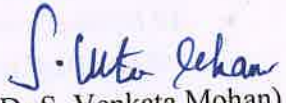
The representatives of the participating firm/further informed that they do not have any issue or suggestion with respect to other points of tendered specifications and related requirements given in the tendered document. The participating bidders have been informed that points raised by them during PBC will be examined by CSIR-IICT's **Technical sub Committee (TSC)/ Technical team** constituted for the purpose of procurement of said equipment and **post PBC changes** in tendered specifications and requirements to be agreed after due consideration of the same by TSC, If any, will be uploaded in CPPP as part of **revised /amended tendered specifications** along with CSIR-IICT website WWW.iict.res.in on or before _____. All Bidders are requested kindly to take a note of the changes, if any, in tendered specifications subsequent to PBC held today, i.e 27-12-2024 before they start submitting their online bids through CPPP.

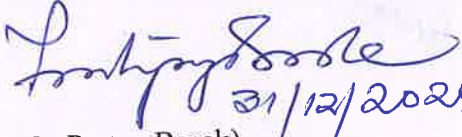

(Dr. Jithender Reddy)
Member


(Dr. Sreepriya Vedantam)
Member


(Sri. D. Venkateswara Rao)
Member


(Dr C. Chandra Sekahr)
I/O


(Dr S. Venkata Mohan)
P/L


(Dr Pratya Basak)
Chairman

**File Ref No. Pur/IICT/1042/24-25/EQPT
GEM Bid No. GEM/2024/B/5719378**

For Supply, Installation and Commissioning of "Bio safety Level II facility

S.No.	Originally tendered specification	Revised/amended tendered specification(Post PBC)
1.	<p>Standards</p> <ul style="list-style-type: none"> • Class 10,000 (ISO-7) Cleanroom • Temperature: 23°C ± 2°C • Relative Humidity (RH): 55% ± 5% • Facility size (in Meters): 5.25L X 5.45WX 2.4H • Partition thickness (not less than 50 mm) • Plain GI with Pre coated Epoxy Sheets fill as PUF Honey Comb Craft Paper 	<p>Standards</p> <ul style="list-style-type: none"> • Class 10,000 (ISO-7) Cleanroom • Temperature: 23°C ± 2°C • Relative Humidity (RH): 55% ± 5% • Facility size (in Meters): 5.25L X 5.45WX 2.4H • Partition thickness (not less than 50 mm) • Plain GI with Pre coated Epoxy Sheets fill as PUF • <i>M-section panels should be used</i> • <i>The door size is 1.1 meter (Width) x 2.1 meters (Height) (including the frame), with four doors. PUF is the insulation material and each door should have transparent view panel.</i> • <i>Flooring material Antifungal and antibacterial flooring material required</i> <p>Electrical points:</p> <ol style="list-style-type: none"> 1. <i>Main Electrical P.C.C panel will be shown by IICT Electrical Section</i> 2. <i>All Electrification points related to BSL II Facility to be carried out by the bidders including Providing, Laying and Termination etc.</i> 3. <i>Inspection, testing of all Electrical Gadgets to be carried out by bidders with third party certification</i> 4. <i>The adequate lighting of 400-500 lux or better illumination throughout facility, Ceiling and other components of fixtures are should be air tight</i> 5. <i>A minimum of 6 power sockets is required in both the main lab area and the instrument area. In the change room, a minimum of 4 power sockets is required.</i> 6. <i>All Technical drawings etc., to be prepared by the bidders and to be</i>

C. Chandan Kumar

S. V. E. Shan

	<p><i>executed, electrical work to be carried out in coordination with CSIR-ICCT Electrical department</i></p> <p>Dimensions and Type of Floor for Work tables in the main lab: <i>2 meter length X 0.7 meters width X 0.75 meters Height table with granite top.</i></p> <p><i>Table should have drawers and leg space</i></p> <p>UV lamps requirement: <i>Two UV lamps with timers and auto cut-off features for a specific time period are required in the main room</i></p> <p>Door Airlock Systems: <i>Two door airlock systems is needed</i></p> <p><i>Bidders should provide the revised BSLII facility layout and mention the type of AHU is providing</i></p>
<p>2. Air Handling System</p> <ul style="list-style-type: none"> • Air Handling Unit (AHU) with 3- stage filtration: • 10µm Pre-filters for 0-50% fresh air • 05 µm Return Air filters • 01 µm Supply Air Filters • Terminal HEPA Modules with 0.3 µm HEPA filters • Two 3-Ton air Conditioning units with inline expansion valves. 	<p>2. Air Handling System</p> <ul style="list-style-type: none"> • Air Handling Unit (AHU) with 3- stage filtration: • 10µm Pre-filters for 0-50% fresh air • 05 µm Return Air filters • 01 µm Supply Air Filters • Terminal HEPA Modules with 0.3 µm HEPA filters • Two 3-Ton air Conditioning units with inline expansion valves.
<p>3. Bio safety Cabinet</p> <ul style="list-style-type: none"> • Class II Type B2 with 100% Exhaust, Size :4'X2'X2' • External GI powder-coated; internal SS 304 • Digital display, door limit buzzer, and HEPA filter life monitoring • Vertical laminar airflow unit(3'X2'X2' in feet) with HEPA filter, motor blower, differential pressure gauge, and sliding door 	<p>3. Bio safety Cabinet</p> <ul style="list-style-type: none"> • Class II Type B2 with 100% Exhaust, Size :4'X2'X2' • External GI powder-coated; internal SS 304 • Digital display, door limit buzzer, and HEPA filter life monitoring • Vertical laminar airflow unit(3'X2'X2' in feet) with HEPA filter, motor blower, differential pressure gauge, and sliding door
<p>4. Containment Features</p> <ul style="list-style-type: none"> • Incineration at exhaust for virology with heating, fan, and temperature control 	<p>4. Containment Features</p> <ul style="list-style-type: none"> • Incineration at Exhaust: <i>The incineration temperature should be maintained at 60°C-90°C.</i>
<p>5. Sterile and Pass-through Systems</p>	<p>5. Sterile and Pass-through Systems</p>

E. Narendar Sharma

S. M. S. S. S.

<p>Dynamic pass box with HEPA filter, motor blower, differential pressure gauge, and interlocking door controls.</p> <p>Sterile UV garment cabinet (1000W x 600D x 2200H mm) with HEPA, motor, blower, differential pressure gauge, bottom shoe rack, and sliding door</p>	<p>Dynamic pass box with HEPA filter, motor blower, differential pressure gauge, and interlocking door controls.</p> <p>Sterile UV garment cabinet (1000W x 600D x 2200H mm) with HEPA, motor, blower, differential pressure gauge, bottom shoe rack, and sliding door</p> <p>The dynamic pass box should have the following specifications:</p> <ul style="list-style-type: none"> • Outer dimensions: 2 x 2 feet • Material: Polycarbonate with GI coated material for external and SS 304 material for internal • Features: UV lamp • Opening: Two-side opening <p>The garment cabinet should be constructed from polycarbonate, with both internal and external surfaces coated with GI. The doors should be hinged (opening outward) and include polycarbonate sheets for the door panels.</p>
<p>6. Safety</p> <ul style="list-style-type: none"> Wash station Smoke detection 	<p>6. Safety</p> <ul style="list-style-type: none"> • Eye wash station • Smoke detection device need to install in facility • Source of water tank is just above the facility roof, need to draw from tank and the drain should connect to the drain • The eye washer has been relocated to the instrument room to prevent contamination
<p>7. Validation Requirements</p> <ul style="list-style-type: none"> • Air velocity and air changes • Particle count (Class 10,000 compliance) • Differential pressure • Temperature and RH • Filter integrity/leak test. • Recovery test 	<p>7. Validation Requirements</p> <p>A digital display unit showing day-to-day temperature, pressure, and relative humidity (RH) is required.</p> <p>The facility validation should be conducted in both resting and operational conditions with NABL-certified equipments' by third party.</p> <ul style="list-style-type: none"> • Air velocity and air changes • Particle count (Class 10,000 compliance) • Differential pressure • Temperature and RH • Filter integrity/leak test. • Recovery test

C. Chandan Sekhar

S. V. K. R. Reddy

<p>8. Certifications All testing and validation performed with NABL-certified equipment/facility</p>	<p>8. Certifications All testing and validation performed with NABL-certified equipment/facility</p> <ul style="list-style-type: none"> The facility validation should be conducted in both resting and operational conditions with NABL-certified equipments' by third party.
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- In addition**
- AHU to be placed on cement platform (1 feet height) with vibrations pads
 - All internal corners should be finished with PVC covings
 - 100mm Wall partition between the chambers including View windows
 - Revised BSL II facility layout has been attached

S. Jithender Reddy
21/12/2022
(Dr Jithender Reddy)
Member

Sreepriya Vedamtam
(Dr Sreepriya Vedamtam)
Member

Sri D Venkateswara Rao
(Sri. D. Venkateswara Rao)
Member

Chandra Sekahr
(Dr C. Chandra Sekahr)
I/O

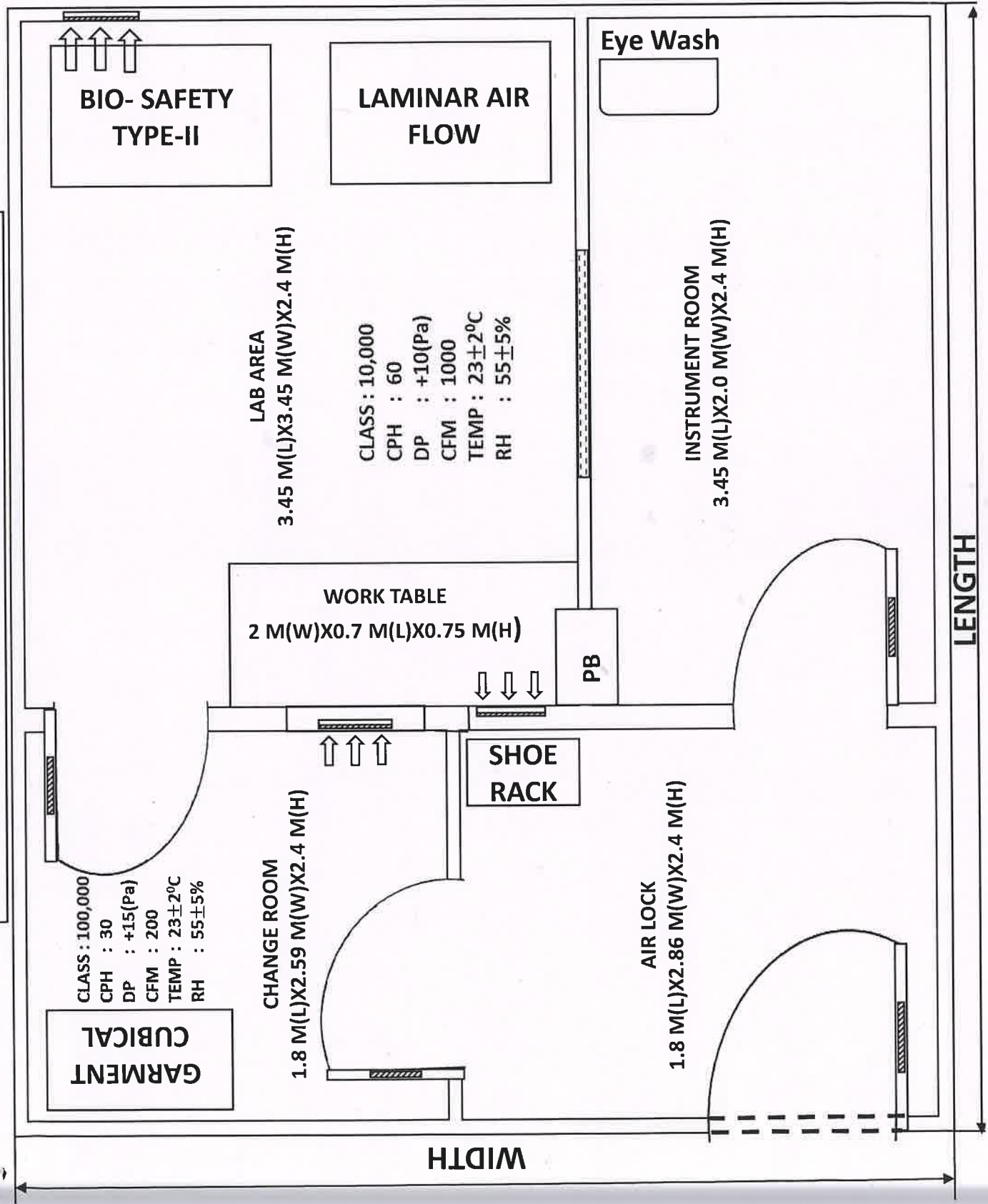
S. Venkata Mohan
(Dr S. Venkata Mohan)
P/L

Pratya Basak
31/12/2022
(Dr. Pratya Basak)
Chairman

Revised LAY OUT- BSL-2 FACILITY

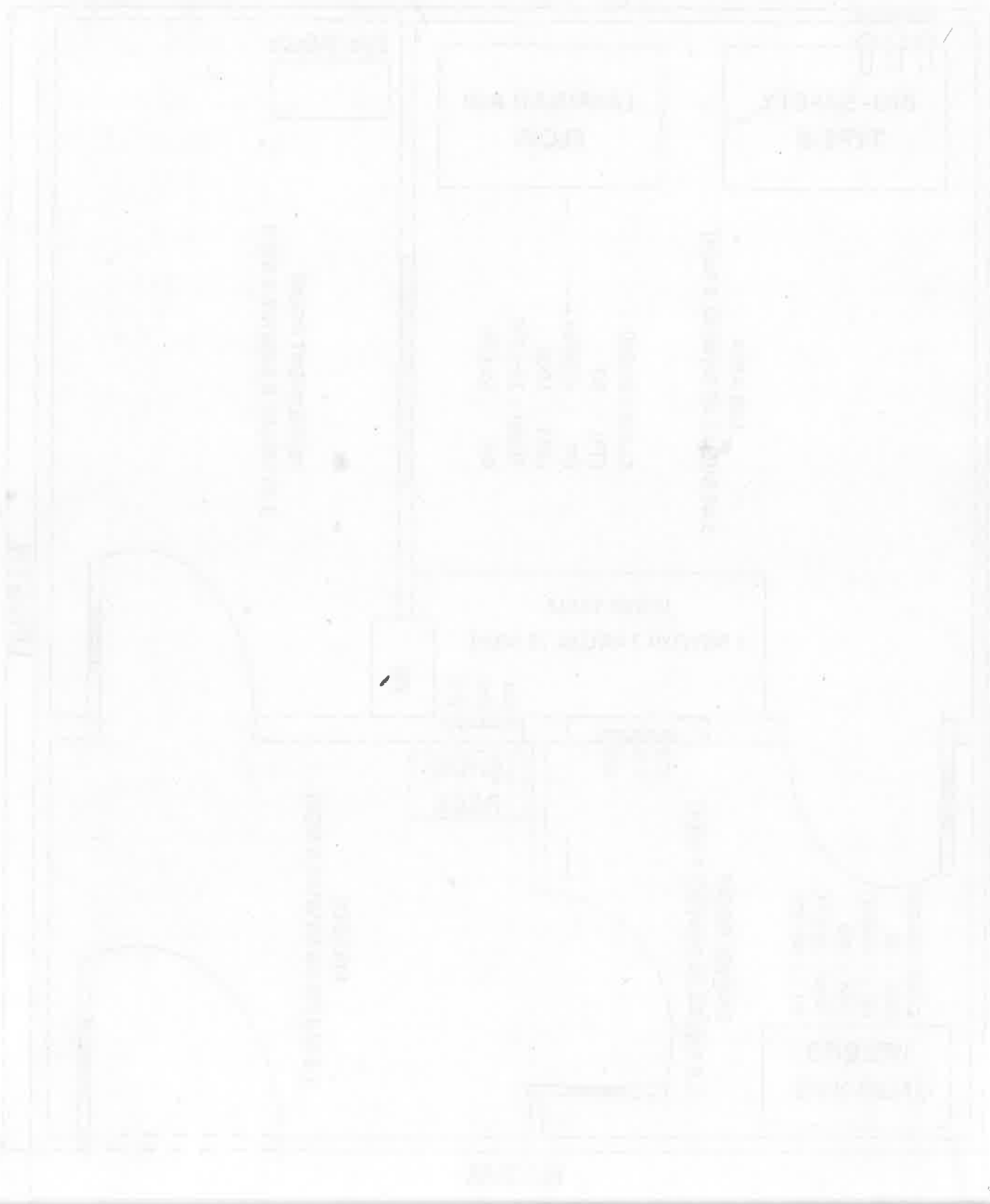
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2:00 pm

1/15/20



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