

**GOVERNMENT OF JHARKHAND**  
**DEPARTMENT OF AGRICULTURE, ANIMAL HUSBANDRY AND COOPERATIVE,**

**OFFICE OF ASSISTANT DIRECTOR AGRICULTURE ,QUALITY CONTROL (FERTILIZER)LABORATORY,**  
**RANCHI,JHARKHAND**

**Very Short Tender Notice for Invitation of Bids**

Sealed tender in prescribed Performa are invited in two bid system- (1)Technical bid (2) Financial bid from manufacturers/authorized distributors/dealers/registered suppliers/ reputed firms / government undertakings for supply and installation of laboratory furniture,etc.

A Complete set of Tender Documents may be downloaded from website – [www.atmaranchi.in](http://www.atmaranchi.in) & [www.sameti.org](http://www.sameti.org)

**Details are given below:-**

1.	<b>Tender Reference No.</b>	01/Goon niyantran/04/2023-24
2.	<b>Name of Work</b>	Supply and installation of laboratory furniture,etc.
3.	<b>Tender Document Cost (Non- Refundable)</b>	Rs. 500
4.	<b>Date of Publication of Tender Document on website</b>	16.10.2023
5.	<b>Document Download Period Starts from</b>	16.10.2023
6.	<b>Bid Submission Period</b>	16.10.2023 to 25.10.2023 (11.00 AM )
7.	<b>Last date of submission of bid Tender Fee &amp; EMD</b>	25.10.2023 (11.00 AM )
8.	<b>Technical Bid Opening Date</b>	26.10.2023 (2.00PM )
9.	<b>Financial Bid Opening Date</b>	26.10.2023 (4.00 PM)
10.	<b>Opening of Place</b>	<u>Office of Assistant Director Agriculture,Quality Control(Fertilizer) Laboratory, Ranchi, Jharkhand.</u> <i>Krishi Bhawan Campus, Kanke Road, Ranchi Pin. No. - 834008, (Jharkhand)</i>
11.	<b>Name &amp; Address of the Inviting Tender</b>	Satya Prakash, _ <u>Assistant Director Agriculture,Quality Control(Fertilizer) Laboratory, Ranchi, Jharkhand.</u> <i>Krishi Bhawan Campus, Kanke Road, Ranchi Pin. No. - 834008, (Jharkhand)</i>
12.	<b>Contact no. of procurement officer</b>	9334051118

**Address for Communication, Place of Submission of Documents**

Office of Assistant Director Agriculture,Quality Control(Fertilizer) Laboratory, Ranchi, Jharkhand.

Krishi Bhawan Campus, Kanke Road, Ranchi Pin. No. - 834008, (Jharkhand)

Sd /  
Assistant Director Agriculture,Quality  
Control(Fertilizer) Laboratory, Ranchi  
Jharkhand

**GOVERNMENT OF JHARKHAND**  
**DEPARTMENT OF AGRICULTURE, ANIMAL HUSBANDARY AND COOPERATIVE,**  
PROffice of Assistant Director Agriculture, Quality Control(Fertilizer) Laboratory, Ranchi, Jharkhand  
*Krishi Bhawan, Campus, Kanke Road, Ranchi*  
*Pin. No. - 834008, (Jharkhand)*

**TENDER NO.** 01/Goon niyantran/04/2023-24 PR. NO.308859 Agriculture (23-24)D

Sealed tender in prescribed Performa are invited in two bid system- (1)Technical bid (2) Financial bid from manufacturers/authorized distributors/dealers/registered suppliers/ reputed firms / government undertakings for supply and installation of laboratory Furniture at Quality Control (Fertilizer) Lab, Ranchi ,Jharkhand.

Tender document can be downloaded from website: [www.atmaranchi.in](http://www.atmaranchi.in) & [www.sameti.org](http://www.sameti.org) and tender fee can be submitted with the tender in the form of DD payable to “Sahayak krishi Nideshak, Goon Niyrantran (Urvarak ) Pryogshala, *Ranchi*” payable at Ranchi and placed in a separate envelope marked “Tender Fee & EMD” and should be kept in the bigger envelope for Technical Bid .

a) Date of Publication of Tender – Tender will be published on 16.10.2023 Document can be downloaded from the website [www.atmaranchi.in](http://www.atmaranchi.in) & [www.sameti.org](http://www.sameti.org) Cost of Tender documents – Rs. 500/- (Five hundred only) (Non-refundable) in the form of demand draft in favour of “Sahayak krishi Nideshak, Goon Niyrantran (Urvarak ) Pryogshala, *Ranchi*” payable at Ranchi

b) Documents download period – From 16.10.2023 to 25.10.2023 up to 11.00 am.

c) Bid submission period - From 16.10.2023 to 25.10.2023 upto 11.00 am.

Last date of submission of bid document ,tender fee, and EMD 25.10.2023 till 11.00 am at the Office of Assistant Director Agriculture, Quality Control(Fertilizer) Laboratory, Ranchi, Jharkhand *Krishi Bhawan, Campus, Kanke Road, Ranchi Pin. No. - 834008, (Jharkhand)*

d) **Opening of bid** – On 26.10.2023 at 2.00 pm in the office of Assistant Director Agriculture, Quality Control (Fertilizer) Laboratory, Ranchi in the front of Tender Committee. All the bidders or their dully authorized representative may remain present at the time of Tender opening for any clarification sought by the Tender Committee.

e) Tender received after due date and time will be rejected.

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## TERMS AND CONDITIONS

The tender should be submitted in two parts as Technical bid and Financial bid

### Scope of Supplies:

#### 1. Annexure-A-Laboratory Furniture.

The tender should be submitted in three separate sealed envelopes (three parts). All the three envelopes should be kept in one bigger (single) envelope duly sealed and submitted in prescribed office: Office of Assistant Director Agriculture, Quality Control (Fertilizer) Laboratory, Ranchi. Krishi Bhawan, Campus, Kanke Road, Ranchi Pin. No. - 834008, (Jharkhand)

**Envelop- I** : It should contain Tender Document Fee & EMD in the form of DD in favour of "Sahayak krishi Nideshak, Goon Niyrantran (Urvarak ) Pryogshala, Ranchi" payable at Ranchi.

Envelop should be super scribed "**TENDER DOCUMENT FEE & EMD**" DD number and its amount should be written on the envelop.

**Envelop – II**: It should contain all the documents required for technical bid.

Envelop should be super scribed "**Technical BID**"

**Envelop – III**: The envelop should consist of only **financial offer**. i.e. the rate of the equipment, their accessories, taxes FOR., insurance etc. Envelop should be super scribed "**Financial Bid**"

Tender will be received and opened in the Office of Assistant Director Agriculture, Quality Control (Fertilizer) Laboratory, Ranchi, Krishi Bhawan Campus, Kanke Road, Ranchi, pin- 834008 (Jharkhand)

The Financial Offer must be mentioned in the prescribed format as per the Annexure-V I . only.

If the financial offer is not in the prescribed format, it will be rejected

The vendor/bidder(s) are required to submit the tender document on their letter head along with the endorsement (by seal & signature) Incomplete tenders, amendments and additions to tender after opening or late tenders are liable to be ignored and rejected.

- Fax and Email quotation are not acceptable.
- Quotations should be valid for 1 year from the tender due date.
- The quotation should clearly indicate the period of delivery, warranty terms etc.
- A minimum of two years warranty is required from the date of commissioning.
- Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) in original should be sent along with the technical bid.
- The Suppliers should submit copies of suitable documents in support of their reputation, credentials and past performance about the product which they have supplied earlier to different organization(s) / Institution(s) with the technical bid.
- **IMPORTANT DOCUMENTS REQUIRED IN THE TECHNICAL BID**
  - i) The tender document must be accompanied by audited financial statements with UDIN for last 3 Assessment years. (2023-24, 2022-23 & 2021-22)
  - ii) Photo copy of PAN card of the entity / legal entity.
  - iii) Photo Copy of GST registration.
  - iv) Photo Copy of latest quarter GST Return. (GSTR3 B of Jan. to March. 2023 Qtr.)
  - v) Photo Copy of Last three years IT Return. (A.Y. 21-22 to 23-24)

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vi) Photo copy of Udyam Registration – Optional (Must be verified from the nearest concerned office if the bidder wants to take the advantages of exemptions as applicable)

- The Vendor must be able to provide the product/items within 25-30 days from the receipt of supply order./ purchase order, failing the EMD will be forfeited.
- Furthermore on completion of the stipulated time period, Purchase Order will be cancelled and award will be given to another qualified bidder with the negotiated terms & conditions.
- The turnover of the participating firm should not be less than ten lakh each year, (Not applicable for NABL consultancy service provider) should have past experience of dealing in similar items proof of the same should be enclosed in Technical Bid Envelop. Bidder should provide a certificate stating that model quoted is latest in the quoted price range, of the concerned manufacturing company.
- In the event of any dispute or difference(s) between the vendee Assistant Director, Quality control (Fertilizer) Laboratory , Ranchi and the vendor(s) arising out of non-supply of material or supplies not found according to the specifications or any other cause whatsoever relating to the supply or purchase order before or after the supply has been executed, shall be referred to the Joint Director Agriculture, Ranchi who will decide the matter himself, his decision shall be final and binding on both the parties.
- The place of arbitration and the language to be used in arbitral proceedings shall be decided by Joint Director Agriculture, Ranchi.
- All disputes shall be subject to Ranchi Jurisdiction only.
- Assistant Director, Quality control (Fertilizer) Laboratory , Ranchi reserves the rights to accept/reject any offer in full or in part or accept any offer other than the lowest offer without assigning any reason thereof. Any offer containing incorrect and incomplete information shall be liable for rejection.
- Any effort by any supplier to influence Assistant Director ,Quality control (Fertilizer) Laboratory , Ranchi's, tender evaluation, tender comparison or contract/order award decisions may result in the rejection of the supplier's tender and forfeiture of the supplier's EMD.
- After opening of bids, information relating to the examination, clarification, evaluation and comparisons of bids and recommendations concerning the award of contract shall not be disclosed to bidders or other persons not officially concerned with such process.

Technical bid envelop should contain all the technical details along with proof of specification of the tendered items with brochures.

- Bidders have to enclose last three years audited reports in the technical bid envelop.
- Bidders should have annual turnover of at least ten lakh per year for previous three years certificate regarding this should be enclosed in the technical bid envelop as stated above.
- Bidders may remain present on the date of technical bid opening; no separate information will be delivered to the bidder regarding attending the meeting of the tender committee.
- Conditional tender will not be accepted.
- Basic price of the equipment (F. O. R.), all taxes, duties etc. must be indicated clearly & separately in the financial bid form.
- Quoted rate should be in INR and valid for 1 year from the tender due date.
- The bidder /The manufacturer should not be black listed by any state government / central government/semi government institutions a certificate or under taking to this effect must be submitted along with technical bid document. Annexure –IV
- The rates of the quoted items should be kept fixed for the entire contract period from the last date of tender submission. No revision in rates/prices will be allowed.

- After acceptance of the tender, the bidder will have no right to withdraw his tender or claim a higher price. Tenders with incomplete information will be summarily rejected.
- The Technical Bid will open on 26.10.2023 2.00 pm.
- The suppliers or their authorized representative may remain present during the opening of the Technical bid at their own expenses.
- Only those financial offers will be opened whose technical offers are found suitable by the tender committee. The Technical Evaluation Criteria will be as per Annexure- IIIA & III B
- The committee may negotiate price with the technically and financially qualified bidder before awarding the offer.
- The Tender Committee /Assistant Director Agriculture , Ranchi reserve its right to select or reject tender without assigning any reasons.
- The EMD of the successful bidder will be returned to them without any interest after completing the successful installation and required training if any. The earnest money of unsuccessful bidders will be returned to them without any interest after the completion of procurement process.
- All tender documents should have to be forwarded through speed post or registered post, courier, Hand Delivery to the following address so as to reach the following address on/before 25.10.2023 11.00 pm..to the Office of Assistant Director Agriculture, Quality Control (Fertilizer) Laboratory, Ranchi, Krishi Bhawan Campus, Kanke Road, Ranchi, pin- 834008 (Jharkhand)
- **OTHER TERMS AND CONDITIONS:**
- The bidder must be entity or legal entity registered under relevant act.
- *Each sheet of the tender document must be signed by the bidder.*
- *The bidder is expected to examine all instructions, forms/annexure, terms and conditions and specifications mentioned in the bidding document. Failure to furnish all information required by the bidding documents or submission of a bid not substantially irresponsive to the bidding document in every respect will be at the bidder's risk and may result in the rejection of its bid.*
- *Losses/damage of the instrument in transits, if any, shall be at the risk of the vendor/supplier.*

#### EMD FOR DIFFERENT ITEMS & SERVICE

S.NO.	ITEMS	EMD ( IN RUPEES )
1	LABORATORY FURNITURE ETC.	4000

Tender Document Fee & EMD in the form of DD in favour of "Sahayak krishi Nideshak, Goon Niyantran (Urvarak ) Pryogshala, Ranchi" payable at Ranchi.

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Annexure- I Form A

PARTICULARS TO BE FILLED BY THE BIDDER

- Name of the Supplier:
- Complete Address of the Supplier:
- Cost of the Tender document enclosed:

Yes/No If yes,

- Name of the Bank \_\_\_\_\_
- Amount in (₹) \_\_\_\_\_
- Demand Draft No. \_\_\_\_\_

Earnest Money Deposit enclosed: Yes / No if Yes,

- Name of the Bank \_\_\_\_\_
- Amount in (₹) \_\_\_\_\_
- Demand Draft No. \_\_\_\_\_
- Last Validity date of the enclosed DD \_\_\_\_\_

Communication details of the concerned contact person to whom all references shall be made regarding this tender enquiry. [NOTE: Any changes after submission of Tender documents kindly update Assistant Director Quality Control (*Fertilizer*) Laboratory, Ranchi]

- a. Full Name : \_\_\_\_\_
- b. Complete Postal Address : \_\_\_\_\_
- c. Telephone No. : \_\_\_\_\_
- d. Fax No. : \_\_\_\_\_
- e. Mobile No. : \_\_\_\_\_
- f. E-mail: \_\_\_\_\_
- g. Website Address : \_\_\_\_\_

Annexure – II

**Technical & Financial Evaluation Criteria for the Supply of equipments**

Bids will be evaluated on a scale of 100. Technical offer will have a maximum score of 100 and the bidders must score 35% or more in both parts (a) and (b) of Technical Evaluation mentioned below.

**Guidelines for technical evaluation:**

The Technical Evaluation comprises of two parts:

Bidder Evaluation- 50 points

Product Evaluation - 50 points

The Bidder evaluation testifies the competence, previous experience and overall core strengths of the invited bidder whereas the product evaluation examines the quality of the products and services offered by the invited bidders. The committee will also try to assess the clarity and commitment of the invited bidder for the aforesaid execution of the tender.

The product evaluation comprises of the performance of bidders in the technical compliance report.

The technical compliance sheet needs to be duly filled and deviations (if any) shall be mentioned clearly.

Further discussions related to the awarded scores by the committee will not be entertained.

**Enclosures:**

Technical Evaluation Sheet - Annexure –III(A) & III(B)

**Annexure-III (A) Technical Evaluation Sheet - (Total : 50 Points)**

S. No.	Particulars	Points System	Max. Points	Points awarded (Vendor/ Bidders are not required to fill this column)
1.	No. of years since the bidder is engaged in similar hardware supply/installation	>5 years - 10 points 4-5 years - 8 points 2-3 years – 6 points 0-1 years – 4point	10	
2.	No. of hardware installations/ Supply/ Providing Service	>10 -10points 7-10 - 8points 3-6 – 6 points 0-2 - 4 point	10	
3.	Turnover of previous three years Separately,	>40 lakh 30points 30-40 lakh 25 points 10-20 lakh-20points	30	

Bidder Evaluation - Total Points Awarded (A) -

**Technical Evaluation - Total 50 Points**

Annexure –III (B)

S. No.	Points System	Max. Points	Points Awarded (Vendor/tenderers are not required to fill this column)	Supporting Document submitted (Yes /No)
	Percentage of deviations cited in the technical compliance sheet submitted by the bidder	0% – 50 points 50 %– 30 points 60%- – 25points 75% – 20 points >90% – 0 points		

Overall Total Points: (Bidder Evaluation + Technical Evaluation) - Total 100 Points (Qualifying Marks- 35 points)Overall Total Points Awarded (A+B) –

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**Annexure – IV**

DECLARATION REGARDING BLACKLISTING/DEBARRING FOR TAKING PART IN TENDER.

*(To be executed & attested by Public Notary / Executive Magistrate on Rs. 10/- non-judicial Stamp paper by the bidder)*

I / We \_\_\_\_\_ Manufacture / Partner(s) / Authorized Distributor/agent of M/S. \_\_\_\_\_ hereby declare that the firm / company namely M/s. \_\_\_\_\_ has not been blacklisted or debarred in the past by Union / State Government or organization from taking part in Government tenders in India.

Or

I / We \_\_\_\_\_ Manufacture / Partner(s) / Authorized Distributor / agent of M/s. \_\_\_\_\_ hereby declare that the Firm / company namely M/s. \_\_\_\_\_ was blacklisted or debarred by Union / State Government or any Organization from taking part in Government tenders for a period of \_\_\_\_\_ years w.e.f. \_\_\_\_\_ to \_\_\_\_\_. The period is over on \_\_\_\_\_ and now the firm / company is entitled to take part in Government tenders.

In case the above information found false I / we are fully aware that the tender/ contract will be rejected/cancelled by Director Agriculture, Jharkhand and EMD / Performance Security shall be forfeited.

In addition to the above Assistant Director Agriculture, Quality Control (Fertilizer) Laboratory, Ranchi, will not be responsible to pay the bills for any completed/partially completed work.

DEPONENT

Name \_\_\_\_\_

Address \_\_\_\_\_ Attested:

(Public Notary / Executive Magistrate)

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Annexure – V. CERTIFICATE TO BE SIGNED BY THE TENDERER CERTIFICATE

It is certified that I have read and understood and will comply all instructions contained in tender Document and its annexures. All pages of schedule (Annexures ) from page \_\_\_\_\_ to have been filled properly and signed.

Signature of Tenderer: \_\_\_\_\_

Name in Block Letters: \_\_\_\_\_

Name of The Firm: \_\_\_\_\_

\_\_\_\_\_

Full Address: \_\_\_\_\_

Telephone No. \_\_\_\_\_

Mobile No. \_\_\_\_\_

Fax No. \_\_\_\_\_

Email ID \_\_\_\_\_

Website: \_\_\_\_\_

Signature of Tenderer with Office Seal

**Annexure-VI  
FINANCIAL OFFER**

Supplier's Ref No. & Date: - \_\_\_\_\_ Tender No. : - \_\_\_\_\_  
Due Date: - \_\_\_\_\_ Description of item: - \_\_\_\_\_

S.NO	Description of Item & Specification (Model no if any)	Unit Price in Rs.	Discount (%)	Excise Duty /Custom Duty (%)	GST/(%)	Other Charge (If any)	Total Price in Rs
1.							

**(Total Amount in Words.....)**

Delivery Mode: Delivery at QCFL RANCHI KRISHI BHAWAN CAMPUS, at site only

Total bid price should be inclusive of all taxes and levies, transport, loading, unloading etc.

Warranty Period: .....

Delivery Period: .....days/weeks. Installation Period:.....days/weeks.

Quotation Validity Date: - Minimum 1Year from the date of Submission of quotation/tender.

Payment Term: Payment in rupees within 30 working days from the date of submission of clear bill (100% on successful installation & training IF ANY).

Sign of bidder: - \_\_\_\_\_

Date: - \_\_\_\_\_

Name of the bidder:- \_\_\_\_\_

Firm's Name:- \_\_\_\_\_

Annexure VII: Minimum Required Documents for Technical Eligibility (Qualifying Criteria)

Name of the firm

S.No	Attached Documents
1.	The bidder must enclose self-attested copy of valid license/registration certificate/ dealer registration/ distributor certificate /certificate of incorporation etc.
2.	Self-attested copy of PAN & GST registration .
3.	Self-attested Photocopy of GSTR3B return of Jan. To March.2023 Qtr..
4.	Copy of IT Return (A.Y.21-22 to 23-24 ) and audited balance sheet of last three financial year
5	Document regarding annual turnover of last three years (Audited financial Statements with UDIN}
6	Proof of work experience: Self-attested copy of similar nature of work experience.
7	RFE FEE receipt & EMD
8.	Affidavit of non-blacklisting

**Note: The above documents will be the basis of technical eligibility / Audited financial statements with UDIN is mandatory.**

**ANNEXURE -A**

**LABORATORY FURNITURE –**

**1.**

**Technical Specification:**

The laboratory furniture shall be modular in design, made of mainly 20 SWGCRCA / GI Sheet in panel form to get the best and full coverage of powder coating and in CKD – Completely Knocked Down construction so it can be installed at sites as per approved layout.

Laboratory Modular Furniture should include Pedestal Frame Structure, Under Bench Storage Modules and Work Top / Surface.

**Ergonomics:**

The furniture shall be designed of height 900mm for standing and sitting posture.

**IMPORTANT:**

- Manufacture should have his own modern and sophisticated manufacturing facility with strict quality checks at every level.
- All metal components / parts shall be 7-tanks pre-treated (with premium chemicals and DM water) and 50-60 micron Epoxy Polyester Coated with Automatic Robotic Spray Gun.

- 
- Modular steel furniture shall be designed as per the guideline of ISO / SEFA standards for convenient on the spot installation at laboratory site.

**Fabrication (General):**

- It is necessary that all CRCA / GI sheet components shall be fabricated by precision shearing levelling, notching, piercing, and machines to achieve consolidated dimensions within close tolerances under the strict quality checks and should be assembled with the aid of fixtures.
- Exposed welding marks shall be polished smooth Improve aesthetic.
- Corner intersections of vertical and horizontal members shall be in the same plane with bolted joints and should be suitably aligned.
- Shutters and drawer-front should be in the same plane.

**Steel Thickness of Components of Laboratory Furniture:**

- Sides, Top, Bottom, Back, Shelves, Drawers, End Cover Panels 1mm (20 SWG)
- Shutters, Drawers Fronts, Stiffeners 1mm (20 SWG)
- Hinge Plates, Shelf Brackets 1mm (20 SWG)
- Pedestal Structure Members, Service Panel Under Bench 1mm (20 SWG)
- Pedestal Frame 1mm (20 SWG)
- Service Panel Over Bench 1mm (20 SWG)

**Under Bench Storage Cabinets:**

1. Modular and durable Under Bench Storage Modules shall have high aesthetic look.
2. All sides of module are collapsible.
3. Sides shall have holes for connecting to the adjacent module with the help of specially threaded steel screws (finished in nickel chrome plating) thereby enhancing the rigidity of furniture / bench runs.
4. End cover panels should be provided to enhance the aesthetic appeal of end modules on a bench run.
5. Modules shall be available in following sizes depends up on requirement: L=450mm / 600mm / 750mm, D=675mm / 520mm.
6. The drawer and shutter fronts shall be provided with polyethylene gaskets for dust resistance and noise free closing and the shutter are fitted with imported clip –on inches for self-closing of the shutter.
7. The shutter shall be fixed on the modules with detachable concealed imported hinges having adjustability in three directions, which should be openable to 95degree and are self closing on return.
8. The shutter and drawer fronts of sandwich construction and to be filled in between with sound deadening expanded polyethylene, to provide structural rigidity.
9. The drawer suspension of fabricated section and is spot – welded to drawer. The suspension guides have nylon/ plastic bearing rollers for smooth running of fully loaded drawer and incorporate selfclosing action.
10. The under bench storage modules are in Ivory & Blue colour combination (for lab furniture)

**Pedestal Frame:**

- The pedestal frame shall be made of 20 SWG CRCA Sheet.

- Pedestal finished in colour with epoxy polyester powder paint.
- Levelling screw should be provided at the bottom of the tubular legs and the same are to be covered by mean of black plastic spat for goods aesthetics.
- Pedestals are in as per drawing colour.

### **Bench Top / Sink Top:**

The following type of bench / Sink tops is fixed in table

- Melamine Laminated (in Ivory Colour).
  - Granite (in black colour) Jet Black Granite with 18/19mm thick Marine Ply backing (if desired in specs.)
  - Tops in Ivory (in case of melamine lamination) and Black Colour (in case of Granite top)
- Rectangular Stainless steel tops will be of 316 grade – 16 gauge.

### **Laboratory Sink and Drip Cup:**

The laboratory sink and the drip cups are used to discard used / waste chemicals and washing water.

They

shall have coving and slope towards drain. The sinks and drip cups shall have lipped edges on top.

They shall be of following material –

1. Stainless steel (304/316), PP Sink , Porcelain Sink.
2. The sink/drip cup shall have waste coupling of 1 ¼ BSP threads for further connection of waste line plumping.

### **Water Tap / Gas Valve:**

- Sophisticated taps / valves shall be made of forged brass body with ½” BSP male inlet and powder coated.
- The tap shall have ABS plastic knob with ISI approved colour code

### **Finish:**

Manufacturer should give great significance in providing pleasing and aesthetics look. Therefore Manufacturer should give a most standard and reputed quality of powder coating The furniture should be subjected to a stringent process and meticulous Supervision. The furniture which has oil/grease/any other dust particle should undergo chemical cleaning .DM water should be used for preparing chemical solution and rinsing process. The quality of chemicals before and after treatment should be always maintained to the standards. Subject all the items to a 11 tank process

The air used in powder coating machine should be clean free from dust, oil, moistures achieved by passing through various filters and dryers. Powder curing should be done as specified by the powder manufacturer. The heating cycle should be maintained in order to have maximum number cross linkages so as to give the best corrosion resistance. Each oven should be calibrated through a travelling temperature tracer mechanism, which confirms the temperature uniformity.

Stringent test should be carried out to ensure the quality. Manufacturer should carry out impact / Cross cut / Bending / Thickness / MEK / Sault spray etc

### **Technical Specification for Powder coating –**

- **Pre-Treatment:** All components received for powder coating are processed through an eleven stage cleaning process. The powder used is passed through a water softening plant where the total hardness of the product water is maintained at less than 5ppm of Ca and Mg. after each reaction step of degreasing / de rusting/ phosphating is rinsed twice to ensure no

carryover of any impurities in the next bath. The reaction baths are maintained on daily basis in keeping with the titration mechanisms as prescribed by the chemical manufacturer record of each bath analysis and additions of chemicals for the up keep are maintained. All the chemicals used in the phosphating process are purchased from good manufacturer.

Effective tank size 3mts long x 1.2 mts deep x 1.2 mts wide. A ion-exchange plant is being installed so as to get water quality of less than 20 ppm. Tds.

- **Air Quality:** The process of powder coating requires a lot of compressed air. The compressed air must be absolutely free from impurities of moisture oil or any dust particles. He quality of compressed air is achieved as a screw compressor is used along with a refrigerated drier. This is coupled with a 0.1 micron borosilicate filter as a per filter and a 0.01 micron borosilicate post filter, The compressed air passes through a dew point of 3 degree centigrade where all the moisture and oil are completely removed.
- **Powder curing:** Powder coating is done as specified by the powder manufacturer. The heating cycle is maintained in order to have maximum number cross linkages so as to give the best corrosion resistance. Each oven is calibrated through a travelling temperature tracer mechanism, which confirms the temperature uniformity in the oven with reference to the dial temperature, the substrate temperature the air temperature and the body temperature at various points inside the oven.
- **Testing of Powder coating materials:** Pane from each batch of components processed are tested for
  - ❖ Impact.
  - ❖ Cross cut.
  - ❖ Bending.
  - ❖ Thickness.
  - ❖ MEK test.
  - ❖ Sault spray (type test conducted for every batch of materials produced).
- **Personnel:** The powder coating plant should be handled by experienced and qualified team of more than 14 people.

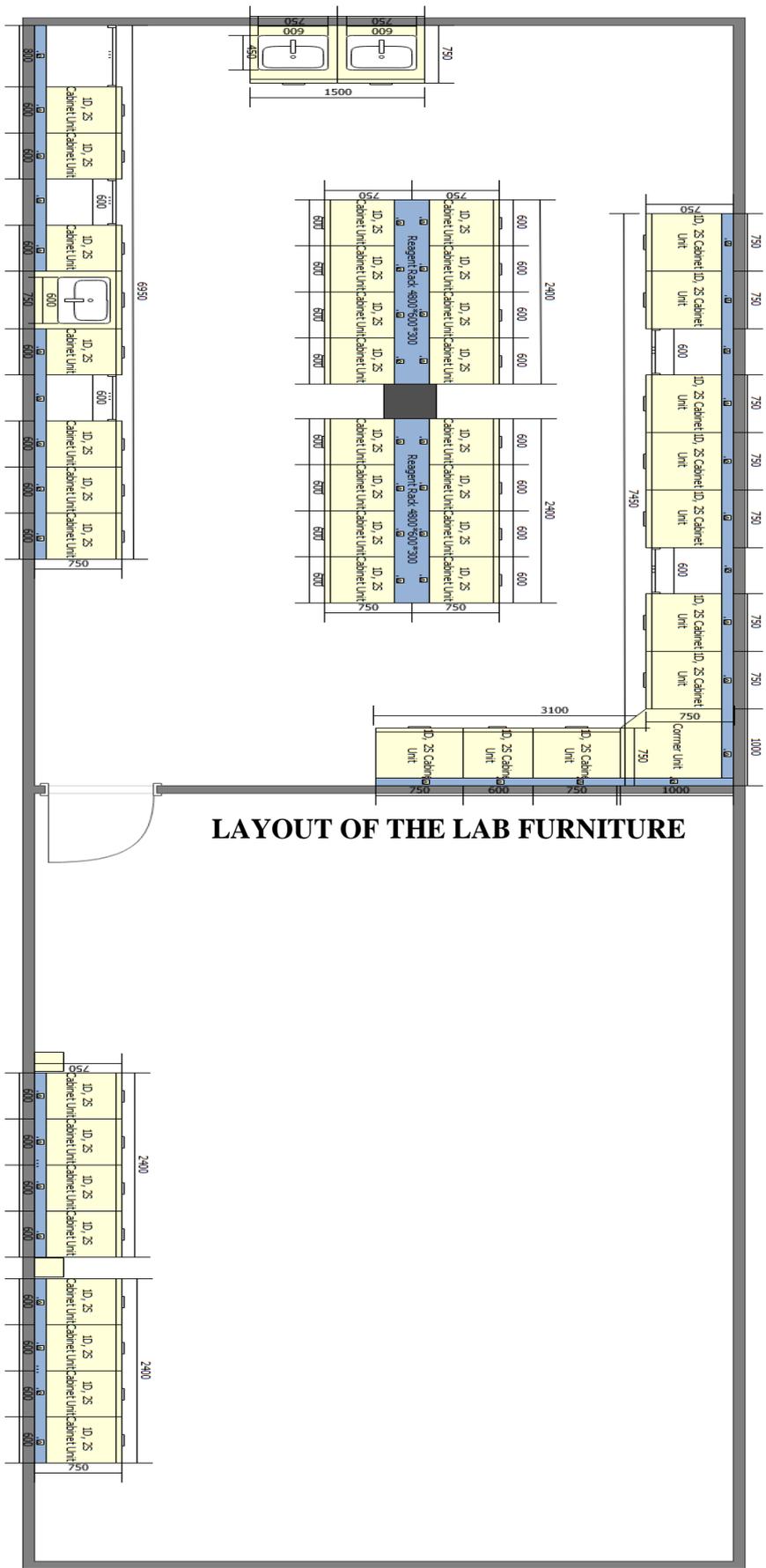
## Detail of work

S. No	Description of Work / Supply	Unit	Qty
1,	L Shaped - Wall Bench i. The entire dimension of the modules should be 7450x750x900 & 3100x750x900 for L-Shape) ii. There should be modules of 1-drawer, and 1- Cabinet with 2-Shutter all being lockable and having handles and width of 750mm=09 Nos iii. There should be modules of 1-Drawer and 1-Cabinet with 2-Shutter all being lockable and having handles with width of 600mm=01 Nos iv. Corner unit of 1000X1000X900 mm = 01 Nos v. Cabinets should have lockable doors, auto-close hinges and handles	Set	01

	<ul style="list-style-type: none"> <li>vi. The modules should be made of 20 SGW per coated galvanized iron sheet and completely finished epoxy powder coating</li> <li>vii. Color combination of IVORY and BLUE by powder coating technique</li> <li>viii. Knee Hole space with foot rest should be provided of 600mm = 02 Nos</li> <li>ix. With all required water connection with in lab and Electrical raceway 14 Nos 16/6 amp switch and socket</li> <li>x. Granite top of 7450+3100(L) X 750(D)mm should be provided in U-Shape, Thickness 18±2 mm</li> <li>xi. Note: granite slab have to be provided by party</li> <li>xii. Note: Seepage(for wall) or Roof treatment will be in supplier scope for avoiding moisture effect on Lab furniture</li> <li>xiii. Service Center must be within 100 KM of Site</li> </ul>		
<p><b>2.</b></p>	<p><b>Straight Wall Bench</b></p> <ul style="list-style-type: none"> <li>i. The entire dimension of the modules should be 6950x750x900</li> <li>ii. There should be modules of 1-drawer, and 1- Cabinet with 2-Shutter all being lockable and having handles and width of 600mm=07 Nos</li> <li>iii. There should be modules of sink unit of 1-Cabinet with 2-Shutter all being lockable and having handles with width of 750mm=01 Nos, must be supplied and installed with PP Sink and 3-way Swan faucet made up of brass with powder coating.</li> <li>iv. Cabinets should have lockable doors, auto-close hinges and handles</li> <li>v. The modules should be made of 20 SGW per coated galvanized iron sheet and completely finished epoxy powder coating</li> <li>vi. Color combination of IVORY and BLUE by powder coating technique</li> <li>vii. Knee Hole space with foot rest should be provided of 600mm = 02 Nos</li> <li>viii. With all required water connection with in lab and Electrical raceway 10 Nos 16/6 amp switch and socket</li> <li>ix. Granite top of 6950(L) X 750(D)mm should be provided in U-Shape, Thickness 18±2 mm</li> <li>x. Note: granite slab have to be provided by party</li> <li>xi. Note: Seepage(for wall) or Roof treatment will be in supplier scope for avoiding moisture effect on Lab furniture</li> <li>xii. Service Center must be within 100 KM of Site</li> </ul>	<p><b>Set</b></p>	<p><b>01</b></p>
<p><b>3.</b></p>	<p><b>Straight Wall Bench</b></p> <ul style="list-style-type: none"> <li>i. The entire dimension of the modules should be 2400x750x900</li> <li>ii. There should be modules of 1-drawer, and 1- Cabinet with 2-Shutter all being lockable and having handles and width of 600mm=04 Nos</li> <li>iii. Cabinets should have lockable doors, auto-close hinges and handles</li> <li>iv. The modules should be made of 20 SGW per coated galvanized iron sheet and completely finished epoxy powder coating</li> <li>v. Color combination of IVORY and BLUE by powder coating technique</li> <li>vi. With all required water connection with in lab and Electrical raceway 04 Nos 16/6 amp switch and socket</li> </ul>	<p><b>set</b></p>	<p><b>02</b></p>

	<p>vii. Granite top of 2400(L) X 750(D)mm should be provided in U-Shape, Thickness 18±2 mm</p> <p>viii. Note: granite slab have to be provided by party</p> <p>ix. Note: Seepage(for wall) or Roof treatment will be in supplier scope for avoiding moisture effect on Lab furniture</p> <p>x. Service Center must be within 100 KM of Site</p>		
4.	<p>Washing Unit</p> <p>i. The entire dimension of the modules should be 1500x750x900</p> <p>ii. There should be modules of sink unit of 1-Cabinet with 2-Shutter all being lockable and having handles with width of 750mm=02 Nos, must be supplied and installed with PP Sink and 3-way Swan faucet made up of brass with powder coating.</p> <p>iii. Cabinets should have lockable doors, auto-close hinges and handles</p> <p>iv. The modules should be made of 20 SGW per coated galvanized iron sheet and completely finished epoxy powder coating</p> <p>v. Color combination of IVORY and BLUE by powder coating technique</p> <p>vi. Granite top of 1500(L) X 750(D)mm should be provided in U-Shape, Thickness 18±2 mm</p> <p>vii. Note: granite slab have to be provided by party</p> <p>viii. Note: Seepage(for wall) or Roof treatment will be in supplier scope for avoiding moisture effect on Lab furniture</p> <p>ix. Service Center must be within 100 KM of Site</p>	Nos	01
5.	<p>Island Bench</p> <p>i. The entire dimension of the modules should be 2400x1500x900</p> <p>ii. There should be modules of 1-drawer, and 1- Cabinet with 2-Shutter all being lockable and having handles and width of 600mm=08 Nos</p> <p>iii. Cabinets should have lockable doors, auto-close hinges and handles</p> <p>iv. The modules should be made of 20 SGW per coated galvanized iron sheet and completely finished epoxy powder coating</p> <p>v. Color combination of IVORY and BLUE by powder coating technique</p> <p>vi. With all required water connection with in lab and Electrical raceway 08 Nos 16/6 amp switch and socket</p> <p>vii. Granite top of 2400(L) X 1500(D)mm should be provided in U-Shape, Thickness 18±2 mm</p> <p>viii. Note: granite slab have to be provided by party</p> <p>ix. Note: Seepage(for wall) or Roof treatment will be in supplier scope for avoiding moisture effect on Lab furniture</p> <p>x. Service Center must be within 100 KM of Site</p>	Set	02

- **Note: All above job need to be executed on Trunkey basis**



**LAYOUT OF THE LAB FURNITURE**

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## OTHER FURNITURE

<b>1.</b>	Chemical Storage Cabinet Size: 2100X750X450mm Suitable for storage of fuming chemicals and dry chemicals Must be resistance for all type of solvent and alkali, and all type of chemicals Must be provided with exhaust system suitable for expel the acidic fume of cabinet outside the laboratory Shelves: 04 Nos Door double leaf shutter with lock, handle and hinges	<b>Set</b>	<b>02</b>
<b>2.</b>	File Storage almirah Suitable for storing files and documents Must be supplied with double leaf glass shatter door and handle and lock with hinges Size: 2100X900X450mm	<b>Set</b>	<b>04</b>
<b>3.</b>	Over head cabinet Size: 600X600X450mm Suitable for storing files and documents along with daily required items for laboratory requirement. Must be supplied with double leaf glass shatter door and handle and lock with hinges	<b>Nos</b>	<b>08</b>