

Ref. No. MRSPTU/Purchase/24-25/ 4011

Dated: 14/2/2025

(Via E-mail Only)

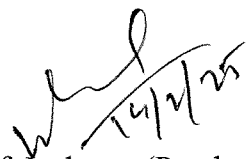
To

1. Director, Technical Education & Industrial Training, Punjab, Chandigarh or his nominee (Nominee of BOG)
2. Associate Dean, Academic Affairs, MRSPTU.
3. Registrar, MRSPTU.
4. Head, Department of Civil Engineering. GZSCCET.
5. Officer-in-Charge (F&P), MRSPTU.
6. Prof. Incharge, IT Enabled Services, MRSPTU.
7. Two Professors from the University nominated by the Vice Chancellor.
  - (a) Prof. (Dr.) Paramjeet Singh
  - (b) Prof. (Dr.) Naresh Kumar Garg
8. Prof. J.S. Tiwana, Head, Deptt. of School of Agriculture Science & Engg.
9. Member Secretary: Assistant Registrar (S&P) in case of Store & Purchase.

**Sub: 25<sup>th</sup> meeting of Tender Finalization Committee.**

The meeting of Tender Finalization Committee will be held on dated 19-02-2025 at 11:00 A.M. through online mode. The google meet link will be sent one hour before the meeting through e-mail. You are requested to make it convenient to attend the same.

**Encl: Agenda of 25<sup>th</sup> TFC with Annexures.**

  
 14/2/25  
 Prof. Incharge (Purchase)  
 MRSPTU, Bathinda

**Copy to:**

1. PA to Vice Chancellor, for the information of Hon'ble Vice Chancellor.
2. Registrar, MRSPTU for the information.
3. Master File.



**BATHINDA**

# **AGENDA**

**FOR THE 25<sup>th</sup> MEETING**

**OF**


**TENDER FINALIZATION COMMITTEE**

**TO BE HELD AT**

**11:00 AM on 19 February, 2025**

**Through Video Conference and**

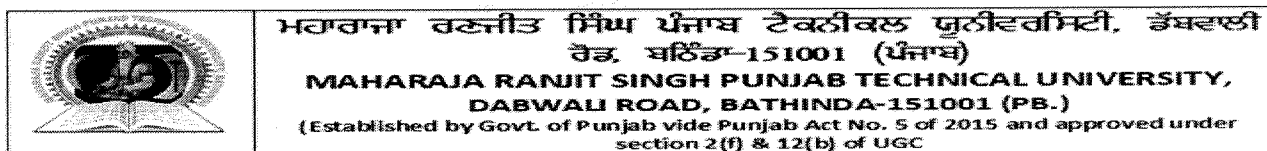
**In person at MRSPTU, Bathinda**

	<p>ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ, ਡੱਬਵਾਲੀ ਰੋਡ, ਬਠਿੰਡਾ-151001 (ਪੰਜਾਬ) <b>MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY,</b> <b>DABWALI ROAD, BATHINDA-151001 (PB.)</b> (Established by Govt. of Punjab vide Punjab Act No. 5 of 2015 and approved under section 2(f) &amp; 12(b) of UGC</p>
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## Tender Finalization Committee Members

### (25<sup>th</sup> Meeting)

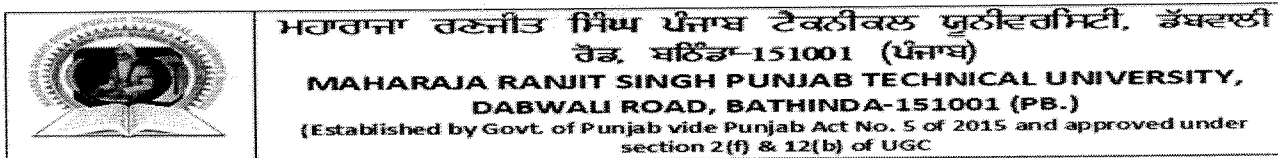
Sr. No.	Name of Committee Members	Designation
1.	Director, Technical Education & Industrial Training, Punjab, Chandigarh or his nominee (Nominee of BOG)	Member
2.	Associate Dean, Academic Affairs	Member
3.	Registrar	Member
4.	Head, Department of Civil Engineering	Member
5.	Officer-in-charge (F&P)	Member
6.	Prof. Incharge, IT Enabled Services	Member
7.	Two Professors from the University nominated by the Vice Chancellor, MRSPTU Bathinda:- (a) Prof. (Dr.) Paramjit Singh (b) Prof. (Dr.) Naresh Kumar Garg	Member
8.	Prof. J.S. Tiwana, Head, Deptt. of School of Agriculture Science & Engg.	Special Invitee
9.	Assistant Registrar (S&P)	Member Secretary



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25.13	Regarding purchase of following items for Deptt. of School of Agriculture Science & Engg., MRSPTU Bathinda. (1) Seed Germinator 285 Ltr. for Plant Breeding Lab, Seed Sciences & Technology (2) Seed Germinator 275 Ltr. for Agronomy & Agro Forestry and Horticulture Lab	7	Annexure-XII, Page No. 59 to 62

25.14	Regarding purchase of following items for Deptt. of School of Agriculture Science & Engg., MRSPTU Bathinda:- 1. BOD Incubator 200 Ltr. for Plant Biotechnology & Soil Science Lab 2. BOD Incubator 150 Ltr. or more for Animal Sciences, Plant Pathology and Microbiology Lab.	7	Annexure-XIII, Page No. 63 to 66
25.15	Regarding purchase of following Equipments for Deptt. of School of Agriculture Science & Engg., MRSPTU Bathinda. 1. Binocular Microscope for Entomology, Genetic and Plant Breeding, Soil Sciences 2. Stereo Microscope for Entomology, Plant Pathology 3. Microscope for Horticulture, Genetic and Plant Breeding 4. Microscope with Camera for Plant Pathology 5. Fluorescence Microscope for Plant Bio Technology	8	Annexure-XIV, Page No. 67 to 71
25.16	Regarding purchase of following Furniture Items for Lab, Office & Faculty for Deptt. of School of Agriculture Science & Engg., MRSPTU Bathinda. 1. Lab Stools 2. Metal Shelving Rack Open Type/Slotted Angle Racks 3. MS Sheet Almirahs 4. Visitor Chairs 5. Lab Tables with Granite Top 6. Conference Room Table U Shape 7. Executive Tables 8. Revolving Chairs 9. Computer Tables cum Office Tables	8,9	Annexure-XV, Page No. 72 to 75
25.17	Regarding purchase of following weighing Balance Items for Agriculture Laboratory for Deptt. of School of Agriculture Science & Engg., MRSPTU Bathinda. 1. Spring Balance (10 kg.) 2. Spring Balance (50 Kg.) 3. Electronic Weighing Scale (5kg.) 4. Electronic Weighing Balance (1000 gm) 5. Electronic Platform Weighing Scale (100 kg) 6. Electronic Balance (300 gm) 7. Electronic Weighing Scale (1-30 kg.) 8. Electronic Weighing Scale (3 Kg.) 9. Top Pan Balance (2 Kg.) 10. Top Pan Balance (1.2 kg.) 11. Electronic Balance (200 gm)	9	Annexure-XVI, Page No. 76 to 79
25.18	Regarding purchase of Tractor 60 to 65 HP for Demonstration, Ploughing the form and Development of University Land for Deptt. of School of Agriculture Science & Engg., MRSPTU, Bathinda.	10	Annexure-XVII Page No. 80 to 82
25.19	Any other item with permission of the chair.	10	--



## AGENDA

### Item No. 25.1      To confirm the minutes of 24<sup>th</sup> Tender Finalization Committee.

The 24<sup>th</sup> meeting of Tender Finalization Committee of Maharaja Ranjit Singh Punjab Technical University, Bathinda were held online (google meet) on 29-11-2024. The minutes were circulated to all the members via email vide ref. no. MRSPTU/Purchase/24-25/3916 dated 03-12-2024. No comments were received from any member of committee, so the minutes of 24<sup>th</sup> TFC is placed at (Annexure-I, Page No. 11 to 13) for confirmation.

### Item No. 25.2      Action Taken Report on the Minutes of 24<sup>th</sup> Meeting of Tender Finalization Committee.

Sr. No.	Description of Items	Decision Taken	Action Taken
24.1	To confirm the minutes of 23 <sup>rd</sup> Tender Finalization Committee.	Confirmed	No action required
24.2	Action Taken Report on the Minutes of 23 <sup>rd</sup> Meeting of Tender Finalization Committee.	Approved	Noted
24.3	Hiring of Services for Chartered Accountant for MRSPTU & Its Constituent Colleges	Approved	The Work Order was released to L1 firm.
24.4	Regarding Annual Rate Contract for Purchase of Stationery Items for MRSPTU & Its Constituent Colleges.	Approved	Annual Rate Contract was released to three different L1 firms (itemwise).
24.5	Regarding Services of Internet Connectivity from two different vendors for two different lease lines i.e. 200 MBPS for MRSPTU Main Campus and 100 MBPS for GZSCCET Campus with (1:1) 64 Static IP (Including Installation & with all required accessories for lease line) for one year.	Approved	Notification of Awards were released to two different L1 firms.
24.6	Purchase of 3D Resin Printer for BCL-AICTE Idea Lab of MRSPTU Bathinda.	Approved (Table Agenda Item)	Under Process

**Item No. 25.3**

**Regarding purchase of Gel Electrophoresis & Other Accessories for Research purpose for Deptt. of Pharma. Sci. & Technology, MRSPTU Bathinda.**

The grant of Rs. 33,17,234/- has been received from Indian Council of Medical Research for ICMR Project for research purpose for Department of Pharma. Sci. & Technology, MRSPTU Bathinda. The requirement for purchase of Gel Electrophoresis & other accessories against Sanction No. UNIV/2024-25/ICA/00014 dated 04-02-2025 for Rs. 2,30,500/- has been received after getting the administrative as well as financial approval by worthy Hon'ble Vice Chancellor. The copy of online sanction, specifications and other related documents are attached herewith. (Annexure-II, Page No. 14 to 20).

**The matter is presented before the committee for consideration and approval for purchase.**

**Item No. 25.4**

**Regarding purchase of Gel Doc Systems for Research purpose for Deptt. of Pharma. Sci. & Technology, MRSPTU Bathinda.**

The grant of Rs. 33,17,234/- has been received from Indian Council of Medical Research for ICMR Project for research purpose for Department of Pharma. Sci. & Technology, MRSPTU Bathinda. The requirement for purchase of Gel Doc System against Sanction No. UNIV/2024-25/ICA/00013 dated 04-02-2025 for Rs. 6,30,400/- has been received after getting the administrative as well as financial approval by worthy Hon'ble Vice Chancellor. The copy of online sanction, specifications and other related documents are attached herewith. (Annexure-III, Page No. 21 to 24).

**The matter is presented before the committee for consideration and approval for purchase.**

**Item No. 25.5**

**Regarding purchase of RT-PCR with Other Accessories including Computer System and the UPS for Research work for Deptt. of Pharma. Sci. & Technology, MRSPTU Bathinda.**

The grant of Rs. 33,17,234/- has been received from Indian Council of Medical Research for ICMR Project for research purpose for Department of Pharma. Sci. & Technology, MRSPTU Bathinda. The requirement for purchase of RT-PCR with Other Accessories including Computer System and the UPS against Sanction No. UNIV/2024-25/ICA/00016 dated 10-02-2025 for Rs. 12,50,000/- has been received after getting the administrative as well as financial approval by worthy Hon'ble Vice Chancellor. The copy of online sanction, specifications and other related documents are attached herewith. **(Annexure-IV, Page No. 25 to 29).**

**The matter is presented before the committee for consideration and approval for purchase.**

**Item No. 25.6**

**Regarding purchase of Chemicals for Research purpose for Deptt. of Pharma. Sci. & Technology, MRSPTU Bathinda.**

For the purchase of Chemicals for Research Work for Deptt. of Pharmaceutical Science & Technology of MRSPTU, Bathinda as per vide Sanction No. UNIV/2024-25/PHM/00021 dated 18-12-2024 for Rs. 3,96,934/- has been received after getting administrative as well as financial approved by worthy Hon'ble Vice Chancellor for Financial Year 2024-25. The copy of online sanction, specifications and other related documents are attached herewith. **(Annexure-V, Page No. 30 to 36).**

**The matter is presented before the committee for consideration and approval for purchase.**

**Item No. 25.7**

**Regarding Supply of Material Installation Poly House (Fan and Pad) Size 576 square meter Commissioning onsite for Horticulture Lab for Deptt. of School of Agriculture Science & Engg. (SASE), MRSPTU Bathinda.**

Newly started department SASE has to develop the Horticulture Labs & Field for the B.Sc. (Hons.) Agriculture Sciences and B.Tech. Agriculture Engineering to meet the minimum requirements of the PSCAE and ICAR for the accreditation of the course. The requirement for the material, purchase of Poly House size 576 sq. mtr. as per vide Sanction No. UNIV/2024-25/AGR/000111 dated 13-02-2025 for Rs. 10,19,000/- has been received for Financial Year 2024-25. The Finance Committee has approved the budget from capital expenditure and the expenditure will be used from Development Fund. The copy of online sanction, specifications and other related documents are attached herewith. **(Annexure-VI, Page No. 37 to 40).**

**The matter is presented before the committee for consideration and approval for purchase.**

**Item No. 25.8**

**Regarding purchase of Shaded Net Structure Installation & Commissioning 1000 sq. mtr. for Horticulture Lab for Deptt. of School of Agriculture Science & Engg., MRSPTU Bathinda.**

Newly started department SASE has to develop the Horticulture Labs & Field for the B.Sc. (Hons.) Agriculture Sciences and B.Tech. Agriculture Engineering to meet the minimum requirements of the PSCAE and ICAR for the accreditation of the course. The requirement for the Lab Equipment, purchase of Shaded Net Structure Installation & Commissioning 1000 sq. mtr. as per vide Sanction No. UNIV/2024-25/AGR/000101 dated 11-02-2025 for Rs. 7,10,000/- has been received for Financial Year 2024-25. The Finance Committee has approved the budget from capital expenditure and the expenditure will be used from Development Fund. The copy of online sanction, specifications and other related documents are attached herewith. **(Annexure-VII, Page No. 41 to 44).**

**The matter is presented before the committee for consideration and approval for purchase.**

**Item No. 25.9****Regarding Supply of Material, Installation of Poly House (Naturally Ventilated) Size 576 Sqm. Commissioning on sit for Horticulture Lab for Deptt. of School of Agriculture Science & Engg., MRSPTU Bathinda.**

Newly started department SASE has to develop the Horticulture Labs & Field for the B.Sc. (Hons.) Agriculture Sciences and B.Tech. Agriculture Engineering to meet the minimum requirements of the PSCAE and ICAR for the accreditation of the course. The requirement for the lab equipment, purchase of Material Installation of Poly House (Naturally Ventilated) Size 576 Sqm. Commissioning on sit as per vide Sanction No. UNIV/2024-25/AGR/000112 dated 13-02-2025 for Rs. 6,89,000/- has been received for Financial Year 2024-25. The Finance Committee has approved the budget from capital expenditure and the expenditure will be used from Development Fund. The copy of online sanction, specifications and other related documents are attached herewith. **(Annexure-VIII, Page No. 45 to 49).**

**The matter is presented before the committee for consideration and approval for purchase.**

**Item No. 25.10****Regarding purchase of Modular Cold Room for Horticulture and Food Science Lab for Deptt. of School of Agriculture Science & Engg., MRSPTU Bathinda.**

Newly started department SASE has to develop the Horticulture Lab for the B.Sc. (Hons.) Agriculture Sciences and B.Tech. Agriculture Engineering to meet the minimum requirements of the PSCAE and ICAR for the accreditation of the course. The Cold Room will be used for Demonstration and storage of vegetable and result of storage & study. The requirement for the purchase of Modular Cold Room as per vide Sanction No. UNIV/2024-25/AGR/00089 dated 11-02-2025 for Rs. 4,90,000/- has been received for Financial Year 2024-25. The Finance Committee has approved the budget from capital expenditure and the expenditure will be used from Development Fund. The copy of online sanction, specifications and other related documents are attached herewith. **(Annexure-IX, Page No. 50 to 52).**

**The matter is presented before the committee for consideration and approval for purchase.**

**Item No. 25.11****Regarding purchase of UV-Visible Spectrophotometer for Horticulture Lab and Visible Spectrophotometer for Soil Science Lab for Deptt. of School of Agriculture Science & Engg., MRSPTU Bathinda.**

Newly started department SASE has to develop the Horticulture Lab and Soil Science Lab for the B.Sc. (Hons.) Agriculture Sciences and B.Tech. Agriculture Engineering to meet the minimum requirements of the PSCAE and ICAR for the accreditation of the course. Both lab equipments will be purchased as per vide Sanction No. UNIV/2024-25/AGR/000113 dated 13-02-2025 for Rs. 2,79,000/- for Financial Year 2024-25. The Finance Committee has approved the budget from capital expenditure and the expenditure will be used from Development Fund. The copy of online sanction, specifications and other related documents are attached herewith. (Annexure-X, Page No. 53 to 55).

**The matter is presented before the committee for consideration and approval for purchase.**

**Item No. 25.12****Regarding purchase of Nitrogen Analyzers for Agronomy & Soil Science Lab for Deptt. of School of Agriculture Science & Engg., MRSPTU Bathinda.**

Newly started department SASE has to develop the Horticulture Lab for the B.Sc. (Hons.) Agriculture Sciences and B.Tech. Agriculture Engineering to meet the minimum requirements of the PSCAE and ICAR for the accreditation of the course. The requirement for the purchase of Nitrogen Analyzers for Agronomy & Soil Science Lab as per vide Sanction No. UNIV/2024-25/AGR/00093 dated 11-02-2025 for Rs. 8,00,000/- has been received for Financial Year 2024-25. The Finance Committee has approved the budget from capital expenditure and the expenditure will be used from Development Fund. The copy of online sanction, specifications and other related documents are attached herewith. (Annexure-XI, Page No. 56 to 58).

**The matter is presented before the committee for consideration and approval for purchase.**

**Item No. 25.13**

**Regarding purchase of following items for Deptt. of School of Agriculture Science & Engg., MRSPTU Bathinda.**

- (1) Seed Germinator 285 Ltr. for Plant Breeding Lab, Seed Sciences & Technology**
- (2) Seed Germinator 275 Ltr. for Agronomy & Agro Forestry and Horticulture Lab**

Newly started department SASE has to develop the various labs for the B.Sc. (Hons.) Agriculture Sciences and B.Tech. Agriculture Engineering to meet the minimum requirements of the PSCAE and ICAR for the accreditation of the course. The requirement for the purchase of Seed Germinator 285 Ltr. and Seed Germinator 275 Ltr. as per vide Sanction No. UNIV/2024-25/AGR/00091 dated 11-02-2025 for Rs. 5,65,000/- has been received for Financial Year 2024-25. The Finance Committee has approved the budget from capital expenditure and the expenditure will be used from Development Fund. The copy of online sanction, specifications and other related documents are attached herewith. **(Annexure-XII, Page No. 59 to 62).**

**The matter is presented before the committee for consideration and approval for purchase.**

**Item No. 25.14**

**Regarding purchase of following items for Deptt. of School of Agriculture Science & Engg., MRSPTU Bathinda:-**

- 1. BOD Incubator 200 Ltr. for Plant Biotechnology & Soil Science Lab**
- 2. BOD Incubator 150 Ltr. or more for Animal Sciences, Plant Pathology and Microbiology Lab.**

Newly started department SASE has to develop the various labs for the B.Sc. (Hons.) Agriculture Sciences and B.Tech. Agriculture Engineering to meet the minimum requirements of the PSCAE and ICAR for the accreditation of the course. The requirement for the purchase of BOD Incubator 200 Ltr. and BOD Incubator 150 Ltr. or more as per vide Sanction No. UNIV/2024-25/AGR/00090 dated 11-02-2025 for Rs. 3,85,000/- has been received for Financial Year 2024-25. The Finance Committee has approved the budget from capital expenditure and the expenditure will be used from Development Fund. The copy of online sanction, specifications and other related documents are attached herewith. **(Annexure-XIII, Page No. 63 to 66).**

**The matter is presented before the committee for consideration and approval for purchase.**

**Item No. 25.15**

**Regarding purchase of following Equipments for Deptt. of School of Agriculture Science & Engg., MRSPTU Bathinda.**

- 1. Binocular Microscope for Entomology, Genetic and Plant Breeding, Soil Sciences**
- 2. Stereo Microscope for Entomology, Plant Pathology**
- 3. Microscope for Horticulture, Genetic and Plant Breeding**
- 4. Microscope with Camera for Plant Pathology**
- 5. Fluorescence Microscope for Plant Bio Technology**

Newly started department SASE has to develop the various labs for the B.Sc. (Hons.) Agriculture Sciences and B.Tech. Agriculture Engineering to meet the minimum requirements of the PSCAE and ICAR for the accreditation of the course. The requirement for the purchase of above equipment's as per vide Sanction No. UNIV/2024-25/AGR/00097 dated 11-02-2025 for Rs. 12,60,000/- has been received for Financial Year 2024-25. The Finance Committee has approved the budget from capital expenditure and the expenditure will be used from Development Fund. The copy of online sanction, specifications and other related documents are attached herewith. **(Annexure-XIV, Page No. 67 to 71).**

**The matter is presented before the committee for consideration and approval for purchase.**

**Item No. 25.16**

**Regarding purchase of following Furniture Items for Lab, Office & Faculty for Deptt. of School of Agri. Sci. & Engg., MRSPTU Bathinda.**

- 1. Lab Stools**
- 2. Metal Shelving Rack Open Type/Slotted Angle Racks**
- 3. MS Sheet Almirahs**
- 4. Visitor Chairs**
- 5. Lab Tables with Granite Top**
- 6. Conference Room Table U Shape**
- 7. Executive Tables**
- 8. Revolving Chairs**
- 9. Computer Tables cum Office Tables**

Newly started department SASE has to develop the Various Labs and Offices for the B.Sc. (Hons.) Agriculture Sciences and B.Tech. Agriculture Engineering to meet the minimum requirements of the PSCAE and ICAR for the accreditation of the course. The requirement for the purchase of furniture

items as per vide Sanction No. UNIV/2024-25/AGR/00096 dated 11-02-2025 for Rs. 14,99,000/- has been received for Financial Year 2024-25. The Finance Committee has approved the budget from capital expenditure and the expenditure will be used from Development Fund. The copy of online sanction, specifications and other related documents are attached herewith. (Annexure-XV, Page No. 72 to 75).

**The matter is presented before the committee for consideration and approval for purchase.**

**Item No. 25.17**

**Regarding purchase of following weighing Balance Items for Agriculture Laboratory for Deptt. of School of Agriculture Science & Engg., MRSPTU Bathinda.**

- 1. Spring Balance (10 kg.)**
- 2. Spring Balance (50 Kg.)**
- 3. Electronic Weighing Scale ( 5kg.)**
- 4. Electronic Weighing Balance (1000 gm)**
- 5. Electronic Platform Weighing Scale (100 kg)**
- 6. Electronic Balance (300 gm)**
- 7. Electronic Weighing Scale (1-30 kg.)**
- 8. Electronic Weighing Scale (3 Kg.)**
- 9. Top Pan Balance (2 Kg.)**
- 10. Top Pan Balance (1.2 kg.)**
- 11. Electronic Balance (200 gm)**

Newly started department SASE has to develop the Various Labs for the B.Sc. (Hons.) Agriculture Sciences and B.Tech. Agriculture Engineering to meet the minimum requirements of the PSCAE and ICAR for the accreditation of the course. The requirement for the purchase of these items as per vide Sanction No. UNIV/2024-25/AGR/00098 dated 11-02-2025 for Rs. 5,35,500/- has been received for Financial Year 2024-25. The Finance Committee has approved the budget from capital expenditure and the expenditure will be used from Development Fund. The copy of online sanction, specifications and other related documents are attached herewith. (Annexure-XVI, Page No. 76 to 79).

**The matter is presented before the committee for consideration and approval for purchase.**

**Item No. 25.18**


**Regarding purchase of Tractor 60 to 65 HP for Demonstration, Ploughing the form and Development of University Land for Deptt. of School of Agriculture Science & Engg., MRSPTU Bathinda.**

Newly started department SASE has to develop the Horticulture Lab for the B.Sc. (Hons.) Agriculture Sciences and B.Tech. Agriculture Engineering to meet the minimum requirements of the PSCAE and ICAR for the accreditation of the course. The requirement for the purchase of Tractor 60-65 HP as per vide Sanction No. UNIV/2024-25/AGR/00088 dated 11-02-2025 for Rs. 15,00,000/- has been received for Financial Year 2024-25. The Finance Committee has approved the budget from capital expenditure and the expenditure will be used from Development Fund. The copy of online sanction, specifications and other related documents are attached herewith. **(Annexure-XVII, Page No. 80 to 82).**

**The matter is presented before the committee for consideration and approval for purchase.**

**Item No. 25.19**

**Any other item with permission of the chair.**

 GSTIN: 03AACT0124M1ZJ	<b>ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ</b> <b>ਡਾਬਵਾਲੀ ਰੋਡ ਬਠਿੰਡਾ-151001 (ਪੰਜਾਬ)</b> <b>MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY,</b> <b>DABWALI ROAD, BATHINDA-151001 (PUNJAB)</b> <small>(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015 and approved under section 2(f) &amp; 12(b) of UGC)</small>
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Ref. No. MRSPTU/Purchase/24-25/ 3916

Dated: 03/12/2024

(Via E-mail Only)

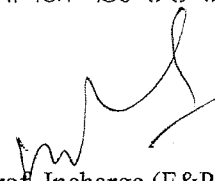
To

1. Director, TE&IT, Punjab, Chandigarh or his nominee (Nominee of Director)  
(Mrs. Sangeeta Goyal, Training & Placement Officer, TE&IT, Chandigarh)
2. Associate Dean, Academic Affairs, MRSPTU (Dr. Amit Bhatia)
3. Registrar, MRSPTU (Dr. Gurinder Pal Singh Brar)
4. Head, Department of Civil Engineering, GZSCCET (Dr. Balkrishan)
5. Officer-in-Charge (F&P), MRSPTU (Dr. Harish Kumar Garg)
6. Prof. Incharge, IT Enabled Services, MRSPTU (Dr. Naresh Kumar Garg)
7. Two Professors from the University nominated by the Vice Chancellor:-  
(a) Prof. (Dr.) Paramjit Singh, Deptt. of Computer Science & Engg.  
(b) Prof. (Dr.) Naresh Kumar Garg, Deptt. of Computer Science & Engg.
8. Prof. Incharge, CRC (Dr. Rajesh Gupta, Deptt. of Mech. Engg.)
9. Member Secretary: Assistant Registrar (F&P) (Smt. Gitika Sood, Asstt. Registrar)


**ਵਿਸ਼ਾ: Minutes of 24<sup>th</sup> meeting of Tender Finalization Committee.**

ਉਪਰੋਕਤ ਵਿਸ਼ੇ ਸਬੰਧੀ ਮਿਤੀ 29-11-2024 ਨੂੰ ਸਵੇਰੇ 11:00 ਵਜੇ offline and online mode ਵਿਚ ਹੋਈ Tender Finalization Committee ਦੀ 24<sup>th</sup> meeting ਦੇ Minutes of Meeting ਦੀ ਕਾਪੀ ਇਸ ਪੱਤਰ ਨਾਲ ਨੱਥੀ ਕਰਕੇ ਆਪ ਜੀ ਨੂੰ ਈ-ਮੇਲ ਰਾਹੀਂ ਭੇਜੀ ਜਾਂਦੀ ਹੈ।

**ਨੱਥੀ: Minutes of 24<sup>th</sup> Meeting of TFC.**

  
 Prof. Incharge (F&P)  
 MRSPTU Bathinda

ਉਪਰੋਕਤ ਦਾ ਇੱਕ ਉਤਾਰਾ ਮਾਨਯੋਗ ਉਪ-ਕੁਲਪਤੀ, ਐਮ.ਆਰ.ਐਸ.ਪੀ.ਟੀ.ਯੂ., ਬਠਿੰਡਾ ਜੀ ਨੂੰ ਜਾਣਕਾਰੀ ਹਿੱਤ ਭੇਜਿਆ ਜਾਂਦਾ ਹੈ।

GSTIN: 03AAAGT024M1ZJ 	ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਡੱਬਵਾਲੀ ਰੋਡ ਬਠਿੰਡਾ-151001 (ਪੰਜਾਬ) MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY, DABWALI ROAD, BATHINDA-151001 (PUNJAB) (Established by Govt. of Punjab vide Punjab Act No. 5 of 2015 and approved under section 2(f) & 12(b) of UGC)
--	---

Ref. No. MRSPTU/Purchase/24-25/ 3916

Dated: 03-12-2024

**MINUTES OF MEETING**

24<sup>th</sup> meeting of Tender Finalization Committee (TFC) of MRSPTU was held offline and online (google meet) on dated 29-11-2024 (Friday) at 11:00 A.M. The following members attended the meeting:

Sr. No.	Committee Members	Designation
1.	Director, Technical Education & Industrial Training, Punjab, Chandigarh or his nominee (as a Nominee of the Director) Smt. Sangeeta Goyal, Training & Placement Officer, O/o DTE&IT, Punjab, Chandigarh. (Joined the meeting online)	Member
2.	Dr. Amit Bhatia Associate Dean, Academic Affairs, MRSPTU, Bathinda	Member
3.	Dr. Gurinder Pal Singh Brar, Registrar, MRSPTU Bathinda	Member
4.	Dr. Bal Krishan, Head, Department of Civil Engineering	Member
5.	Dr. Harish Kumar Garg, Officer-in-charge (Finance & Purchase)	Member
6.	Dr. Naresh Kumar Garg, Prof. Incharge, IT Enabled Services	Member
7. (a)	Prof. (Dr.) Paramjeet Singh, Professor, Deptt. of Computer Sci. & Engg. Deptt. (Nominated by the Vice Chancellor)	Member
(b)	Dr. Naresh Kumar Garg, Professor, Deptt. of Computer Sci. & Engg. Deptt. (Nominated by the Vice Chancellor)	Member
8.	Dr. Rajesh Gupta, Prof. Incharge, CRC	Indenter
9.	Mrs. Gitika Sood, Assistant Registrar (S&P)	Member Secretary

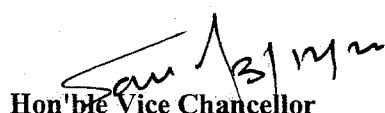
The items were deliberated in detail and following decisions were taken:


Item No.	Name of Item	Decision taken
24.1	To confirm the minutes of 23 <sup>rd</sup> Tender Finalization Committee of University held on 19-02-2024.	Confirmed
24.2	Action Taken Report on the Minutes of 23 <sup>rd</sup> Meeting of Tender Finalization Committee.	Noted
24.3	Hiring of Services for Chartered Accountant for MRSPTU & Its Constituent Colleges.	Approved
24.4	Regarding Annual Rate Contract for Purchase of Stationery Items for MRSPTU & Its Constituent Colleges.	Approved
24.5	Regarding services of Internet Connectivity from two different vendors for two different lease lines i.e. 200 MBPS for MRSPTU Main Campus and 100 MBPS for GZSCCET Campus with (1:1) 64 Static IP (Including Installation & will all required accessories for lease line) for one year.	Approved
<b>TABLE AGENDA ITEM</b>		
24.6	Purchase of 3D Resin Printer for BCL-AICTE Idea Lab of MRSPTU Bathinda.	Approved

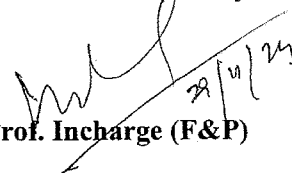
Meeting ended with thanks to all.

Submitted for approval.

  
Registrar,

  
Hon'ble Vice Chancellor

  
Asstt. Registrar (F&P)  
cum - Member Secretary

  
Prof. Incharge (F&P)



## MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY, BATHINDA

### SANCTION REQUISITION FORM FOR PURCHASE AND PROCUREMENT (Beyond ₹1:00 Lakh) DURING FINANCIAL YEAR 2024-25

(Please note that for any purchase more than Rs.1 Lac, it should be approved  
by  
Central Purchase Committee before proceeding further)

### Administrative & Financial Approval

Sanction NO: UNIV/2024-25/ICA/00014

Dated: Feb 04, 2025

1.Name OF Campus/Deptt./Section: ICMR Project (Dr. Amit Bhatia)

2.Name OF Item(s) to be Procured:

Sr. No	Name of items with detailed Generic Specifications(s)(if required use Separate Sheet)	Quantity to Procure	Estimated Unit Cost(Rs.) Inclusive Tax(if any)* and estimate from the firm should be inclosed.	Total Estimated cost of Procurement (Rs) inclusive tax(if any)	Indigenous/imported item(s)
1	Gel Electrophoresis & other accessories	1	₹ 2,30,500.000	₹ 2,30,500.000	Imported
Total	5 specimens attached			₹ 2,30,500.000	

\* In Case of repair: Specify Clearly Whether item is Under Guarantee/Warranty (If any). Yes/No.

2(a) Please Select Whether the Item is: (i) Recurring ☐ (ii) Non-Recurring ☐

3. Justification Of Proposed procurement.

Reserach Purpose
------------------

4. Mode Of Proposed Procurement (Tick whichever is applicable).

I. Govt. E-Marketplace Portal (GeM).

II. If not through GeM, then

Mention the reason

(Copy Attached).

Select the mode from below mentioned options:

a. Upto ₹1.99 Lakh by Calling Quotations through registered/Speed Post.

- b. Through Rate Contract entered by the University.  
c. As Proprietary Item.  
d. Through e-tendering.

15

It is Certified that: this is not a Split Purchase.

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

Name of Lab/Section

Name Of Indentor:

Incharge:

Dr. Amit Bhatia-  
PHM1005

Dr. Amit Bhatia

Designation: \_\_\_\_\_ Designation: PI & professor

5. The above said item(s) are available/not available in the Central Store(not required in the case of books, medicines and repairing Work.)

NA  
Store Keeper

6. Availability Of  
Fund:

Budget Head: 209101 - Equipments

Project Name:

- a. Budgetary Provision, as Per allocation: ₹ 23,02,490.00  
b. Less: funds already utilized during year: ₹ 6,30,400.00  
c. Available fund: ₹ 16,72,090.00  
d. Less: Estimated amount of present proposal: ₹ 2,30,500.00  
e. Balance available: ₹ 14,41,590.00  
f. Add: Buyback amount: NA

Departmental Clerk

7. Following committee is recommended for purchase/procurement.

- I. Indentor: Dr. Amit Bhatia-PHM1005  
II. HOD/Incharge/or his Nominee Dr. Philpot Khullar (chairman)  
III. One member from other department(not below the rank of lab Suptd) to be Nominated by Registrar/  
Campus Director/Director of Constituent College (as the case may be) Dr. Vande K.  
IV. Nominee Of Accounts(Nominated by Finance Officer) Dr. Manoj Singh  
V. Nominee Of Purchase(Nominated by PI(S&P)) Mrs. Rangit

Note: Inspection Committee will consist of the members mentioned at Sr. No. I, II, III.

HOD/Section Incharge/PI

Recommended by Campus Director/Director of Constituent College.

Recommended for approval \_\_\_\_\_

REGISTRAR

Approved/Not Approved

VICE CHANCELLOR

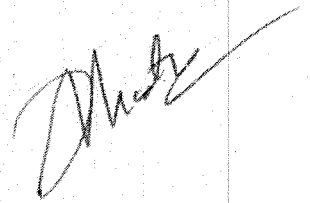
UNIV/2024-25/ICA/00014

### Vertical Electrophoresis system with other accessories (High current power supply)

1. The system should run two mini gels (8 X 7 cm) simultaneously.
2. Flexible- Capable of running hand cast as well as precast gel.
3. Running and casting module should be different
4. Interchangeable module- Should be capable of using wet blotting module to do western blotting.
5. Leak proof, tape free and easy assembly.
6. Patented Flap wing for leak proof assembly.
7. Permanently bonded spacer plates for leak proof, without agarose sealing & taping casting of gels.
8. Casting frame with simple cam closure mechanism that gives precision alignment on any flat surface.
9. Side by side casting stands that allow access to both gels simultaneously.
10. Patented colored sample loading guides to prevent the skipping or repeated loading lanes.
11. Should come with buffer dam.
12. Should come with 10% Stainfree Fast Acrylamide
13. Should have 5 short plates and 5 spacer plates with integrated 1.0 mm spacers and Five 10-well combs

#### Power Supply Basic-

1. Output specifications 250 V, 3.0 A, 300W
2. Output range (programmable) 5-250 V, fully adjustable in 1 V increments
3. 0.01-3.0 A, fully adjustable in 0.01 A increments
4. 1-300W, fully adjustable in 1W increments
5. Type of output Constant voltage, current, or power with automatic crossover
6. Output terminals 4 pair recessed banana jacks in parallel
7. Timer Up to 99 hr, 59 mm
8. Pause/resume function Yes
9. Warranty : 3 years





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भारतीय आयुर्विज्ञान अनुसंधान परिषद  
स्वास्थ्य अनुसंधान विभाग, स्वास्थ्य एवं परिवार  
कल्याण मंत्रालय, भारत सरकार

Indian Council of Medical Research  
Department of Health Research, Ministry of Health  
and Family Welfare, Government of India

No.5/4-5/3/5/DHR/Neuro/2020-NCD-I

Dated : 30/7/24

To

The Registrar,  
Maharaja Ranjit Singh  
Punjab, Technical University

Sub: Sanction and budget allotment for the new ad-hoc scheme entitled :- Therapeutic potential of dual phosphodiesterase inhibition in experimental Alzheimer's disease: possible role of epac signaling in cognitive" under Dr Amit Bhatia .

Sir

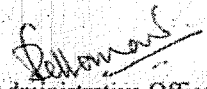
The Director-General of the Council sanctions the above mentioned Research Scheme initially for a period of one year from 14.8.2024 subject to extension up to the total duration specified in para 3 (3) below:

The Director-General of the Council also sanctions the budget allotment of Rs 3317234/- (Rupees Thirty Three Lakhs Seventeen Thousand Two Hundred Thirty four Only for the period of one year ending on 13.08.2025.)

The grant-in-aid will be given subject to the following conditions:-

1. The payment of the grant will be made in lump sum to the Head of the Institute. The first installment of the grant will be paid generally as soon as report regarding the commencement of the project and appointment of the staff is received by the Council. The demand for payment of the subsequent installment of the grant should be placed with the Council in prescribed format attached.
  2. The staff appointed on the project should be paid as indicated in the budget statement attached.
  3. The approved duration of the research scheme is 3 (Three) years. The annual extension will be given after review of the work done on the research scheme during the previous year.
  4. A report on the progress made will be submitted to the Council as and when called for.
  5. The Institute will maintain a separate account of the receipts and the expenditure incurred on the scheme and will furnish a utilization certificate and an audited statement of account pertaining to the grant.
  6. The Host Institute shall utilize the grant after following the provisions laid down in the GFRs 2017 and T.A Rules.
  7. The PI is advised to keep the fund in a separate Saving Bank Account opened for research funds received from ICMR so as to ensure that interest earned thereon is also credited in to the Fund Account.
  8. PI see Terms & Conditions in the ICMR website.
- The receipt of this letter may please be acknowledged.

Yours faithfully,

  
Administrative Officer  
for Head NCD

This issues with the concurrence of Finance Section vide RFC No.(P- 70 ) NCD/Adhoc/ 236 /2022-23 dated 14/03/2023  
IRIS Cell 2020-9634

- 1) Dr Amit Bhatia , Professor , Department of Pharmaceutical, Science and Technology , Maharaja Ranjeet Singh , Punjab University , Dabwali Road, Bathinda -15001
- 2) Administrative officer (NCD)
- 3) Me Hemant Kumar , Sr Technical Officer , ( NCD)

For Head NCD

New ad-hoc scheme entitled :- Therapeutic potential of dual phosphodiesterase inhibition in experimental Alzheimer's disease: possible role of epac signaling in cognitive" under Professor , Department of Pharmaceutical, Science and Technology , Maharaja Ranjeet Singh , Punjab University , Dabwali Road, Bathinda -15001,

14.8.2024 to 13.08.2025

BUDGET	1st YEAR
<b>A. Staff Salary</b>	
JRF (@31000+9%HRA=33790)	405480
<b>B. Recurring</b>	
Antibodies & related chemicals	150000
PCR primers & other materials	150000
Drugs, chemicals and other solvents	100000
CONTIGENCIES( Animal /feed/Bedding/etc.	170000
Stationary items.Glassware and plastic wares	
<b>SUBTOTAL B</b>	<b>975480</b>
<b>C. Overhead Charges</b>	29264
<b>SUBTOTAL (A+B+C)</b>	<b>1004744</b>
<b>D. Non-recurring (Equipments)</b>	
RT-PCR	1250000
Western Blot	191590
Gel Doc	630400
Gel Electrophoresis & other accessories	230500
<b>SUBTOTAL D</b>	<b>3307234</b>
<b>E. Travel</b>	10,000
<b>Grand Total</b>	<b>3317234</b>

Rupees Thirty Three Lakhs Seventeen Thousand Two Hundred Thirty four Only

*Sellam*



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स्वास्थ्य अनुसंधान विभाग, स्वास्थ्य एवं परिवार  
कल्याण मंत्रालय, भारत सरकार

Indian Council of Medical Research  
Department of Health Research, Ministry of Health  
and Family Welfare, Government of India

No.: 5/4-5/3/5/(DHR) Neuro/2020-NCD-I

Dated : 30/7/21

Sub: Payment of 1<sup>st</sup> year grant-in-aid for the research scheme entitled:- :- Therapeutic potential of dual phosphodiesterase inhibition in experimental Alzheimer's disease: possible role of epac signaling in cognitive" under Dr Amit Bhatia, Professor, Department of Pharmaceutical, Science and Technology, Maharaja Ranjeet Singh, Punjab University, Dabwali Road, Bathinda -15001

### MEMORANDUM

The Director-General, ICMR sanctions the payment of Rs. 3317234 /- (Rupees Thirty Three Lakhs Seventeen Thousand Two Hundred Thirty Four Only ) as 1<sup>st</sup> year's grant-in-aid for incurring expenditure in connection with the above mentioned research scheme. The amount of Rs.3317234- may be debited in the provision of Rs.3317234/- made for the above mentioned research scheme for the current financial year 2024-25.

A Formall bill for Rs 3317234 is sent herewith by RTGS to the Registrar, Maharaja Ranjeet Singh, Punjab University, Dabwali Road, Bathinda

*[Signature]*

Administrative Officer  
For Head NCD

This issues with the concurrence of Finance Section vide RFC No.(P- 70 ) NCD/Adhoc/ 236 /2022-23 dated 14/03/2023

IRIS Cell 2020-9634

- 1) Dr Amit Bhatia, Professor, Department of Pharmaceutical, Science and Technology, Maharaja Ranjeet Singh, Punjab University, Dabwali Road, Bathinda -15001
- 2) Administrative officer (NCD)
- 3) Me Hemant Kumar, Sr Technical Officer, ( NCD)

For Head NCD



# MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY, BATHINDA

## SANCTION REQUISITION FORM FOR PURCHASE AND PROCUREMENT (Beyond ₹1.00 Lakh) DURING FINANCIAL YEAR 2024-25

(Please note that for any purchase more than Rs.1 Lac, it should be approved  
by  
Central Purchase Committee before proceeding further)

### Administrative & Financial Approval

Sanction NO: UNIV/2024-25/ICA/00013

Dated: Feb 04, 2025

1.Name OF Campus/Deptt./Section: ICMR Project (Dr. Amit Bhatia)

2.Name OF Item(s) to be Procured:

Sr. No	Name of items with detailed Generic Specifications(s)(if required use Separate Sheet)	Quantity to Procure	Estimated Unit Cost(Rs.) Inclusive Tax(if any)* and estimate from the firm should be inclosed.	Total Estimated cost of Procurement (Rs) inclusive tax(if any)	Indigenous/imported item(s)
1	Gel Doc Sytem	1	₹ 6,30,400.000	₹ 6,30,400.000	Imported
Total	Specifications attached			₹ 6,30,400.000	

\* In Case of repair: Specify Clearly Whether item is Under Guarantee/Warranty (If any). Yes/No.

2(a) Please Select Whether the Item is: (i) Recurring ☐ (ii) Non-Recurring ☐

3. Justification Of Proposed procurement.

Research Work

4. Mode Of Proposed Procurement (Tick whichever is applicable).

I. Govt. E-Marketplace Portal (GeM).

II. If not through GeM, then

Mention the reason

(Copy Attached).

Select the mode from below mentioned options:

a. Upto ₹1.99 Lakh by Calling Quotations through registered/Speed Post.

b. Through Rate Contract entered by the University.

- c. As Proprietary Item.  
d. Through e-tendering.

It is Certified that: this is not a Split Purchase.

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

Name of Lab/Section

Name Of Indentor:

Incharge:

Dr. Amit Bhatia-

Dr. Amit Bhatia

PHM1005

Designation: \_\_\_\_\_

Designation: PI & professor

5. The above said item(s) are available/not available in the Central Store(not required in the case of books, medicines and repairing Work.)

NA -  
Store Keeper

6. Availability Of  
Fund:

Budget Head: 209101 - Equipments

Project Name:

- a. Budgetary Provision, as Per allocation: ₹ 23,02,490.00  
b. Less: funds already utilized during year: ₹ 0.00  
c. Available fund: ₹ 23,02,490.00  
d. Less: Estimated amount of present proposal: ₹ 6,30,400.00  
e. Balance available: ₹ 16,72,090.00  
f. Add: Buyback amount: NA

Departmental Clerk

7. Following committee is recommended for purchase/procurement.

- I. Indentor: Dr. Amit Bhatia-PHM1005  
II. HOD/Incharge/or his Nominee Dr. Pratik Bhatia (chairman)  
III. One member from other department(not below the rank of lab Suptd) to be Nominated by Registrar/  
Campus Director/Director of Constituent College (as the case may be) Dr. Varadhi R. P.  
IV. Nominee Of Accounts(Nominated by Finance Officer) Sh. Rakesh  
V. Nominee Of Purchase(Nominated by PI(S&P)) Mrs. Aruna

Note: Inspection Committee will consist of the members mentioned at Sr. No. I, II, III.

HOD/Section Incharge/PI

Recommended by Campus Director/Director of Constituent College.

Recommended for approval

REGISTRAR

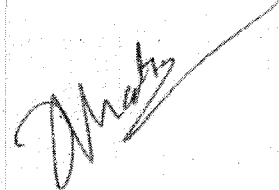
Approved/Not Approved

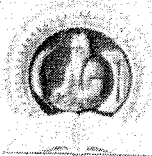
  
VICE CHANCELLOR

UNIV/2024-25/ICA/00013

### TECHNICAL SPECIFICATIONS: Gel Doc System

1. System should automatically recognize tray for the specific application and adjust imaging parameters and software options accordingly.
2. Touch-screen functionality should be available within the system.
3. The system must be capable of pre-calibrated focus for zoom setting or sample height.
4. The Gel Imaging System should offer Smart Tray Technology that automatically recognizes the application-specific tray and adjust imaging parameters and software options accordingly.
5. Two auto-exposure options (rapid or optimal) should be available.
6. Maximum image area should be within the range of 20-24 x 14-18 cm (W x H)
7. The camera should have resolution of 6 MP or better CMOS/CCD camera and should carry a pixel size of 2.4  $\mu$ m x 2.4  $\mu$ m.
8. Dynamic range: 3 orders of magnitude or better
9. The software should allow Publishing resolution (dpi) and publishing dimension to be specified with a one-click image export for publication. Provides functionality to produce image at user -defined dpi and dimension.
10. The software should provide the 16-bit and 8-bit tiff images with a one-click export option
11. Excitation source: Should be supplied with UVB, Epi-white and Trans-white.
12. System should be supplied with trays to be used with UVB, Epi-white and Trans-white excitation source and a dedicated tray for viewing stain free gels.
13. System must have feature of rule out tray for easy cutting of gels with UV shield with safety interlocks.
14. System should use single software for both viewing and image analysis.
15. System must have flat fielding feature that ensures uniform data for all applications.
16. Operating voltage: 100-240 VAC, 50-60 Hz
17. Instrument should be compact enough to be installed on a regular lab bench. Should not exceed size (D x W x H) 66 x 55 x 55 cm
18. Provide evidence for the sale of unit to at least three reputed national government institutes in the last two years.
19. The Specification of the quoted must be available on the website and Literature of the Bidder/OEM for Verification.
20. Physical demo/virtual demo may be asked from the party to prove the specification points.
21. Image/data analysis should do within the system to avoid the option of having separate PC for the system.





## **MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY, BATHINDA**

### **SANCTION REQUISITION FORM FOR PURCHASE AND PROCUREMENT (Beyond ₹1:00 Lakh)**

**DURING FINANCIAL YEAR 2024-25**

(Please note that for any purchase more than Rs. 1 Lac, it should be approved  
by  
Central Purchase Committee before proceeding further)

### **Administrative & Financial Approval**

Sanction NO: UNIV/2024-25/ICA/00016

Dated: Feb 10, 2025

1. Name OF Campus/Deptt./Section: ICMR Project (Dr. Amit Bhatia)

2. Name OF Item(s) to be Procured:

Sr. No	Name of items with detailed Generic Specifications(s) (if required use Separate Sheet)	Quantity to Procure	Estimated Unit Cost(Rs.) Inclusive Tax(if any)* an estimate from the firm should be inclosed.	Total Estimated cost of Procurement (Rs) inclusive tax(if any)	Indigenous/imported item(s)
1	RT-PCR with Other accessories including Computer System and the UPS	1	₹ 12,50,000.000	₹ 12,50,000.000	Imported
Total	Specification attached			₹ 12,50,000.000	

\* In Case of repair: Specify Clearly Whether item is Under Guarantee/Warranty (If any). Yes/No.

2(a) Please Select Whether the Item is: (i) Recurring ☐ (ii) Non-Recurring ☐

3. Justification Of Proposed procurement.

Research work

4. Mode Of Proposed Procurement (Tick whichever is applicable).

I. Govt. E-Marketplace Portal (GeM).

II. If not through GeM, then

Mention the reason \_\_\_\_\_

(Copy Attached).

Select the mode from below mentioned options:

- Upto ₹1.99 Lakh by Calling Quotations through registered/Speed Post.
- Through Rate Contract entered by the University.
- As Proprietary Item.
- Through e-tendering.

It is Certified that: this is not a Split Purchase.

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

Name of Lab/Section

Name Of Indentor:

Incharge:

Dr. Amit Bhatia-

Dr. Amit Bhatia

PHM1005

Designation: \_\_\_\_\_ Designation: Prof. and PI

5. The above said item(s) are available/not available in the Central Store(not required in the case of books, medicines and repairing Work.)

NA -  
Store Keeper

6. Availability Of  
Fund:

Budget Head: 209101 - Equipments

Project Name:

- Budgetary Provision, as Per allocation: ₹ 23,02,490.00
- Less: funds already utilized during year: ₹ 10,52,490.00
- Available fund: ₹ 12,50,000.00
- Less: Estimated amount of present proposal: ₹ 12,50,000.00
- Balance available: ₹ 0.00
- Add: Buyback amount: NA

Signature  
Departmental Clerk

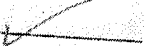
7. Following committee is recommended for purchase/procurement.

- Indentor: Dr. Amit Bhatia-PHM1005
- HOD/Incharge/or his Nominee Dr. Suptd (chairman)
- One member from other department(not below the rank of lab Suptd) to be Nominated by Registrar/  
Campus Director/Director of Constituent College (as the case may be) Dr. Suptd
- Nominee Of Accounts(Nominated by Finance Officer) Dr. Suptd
- Nominee Of Purchase(Nominated by PI(S&P)) Mrs. Suptd


Note: Inspection Committee will consist of the members mentioned at Sr. No. I, II, III.

Signature  
HOD/Section Incharge/PI

Recommended for approval



Approved/Not Approved

  
REGISTRAR

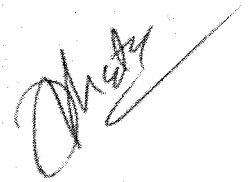
  
VICE CHANCELLOR

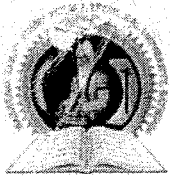
UNIV/2024-25/ICA/00016

### RT-PCR with Other accessories including Computer System and the UPS

1. System should include an automated lid that opens, closes, and can apply sealing force to reaction wells.
2. Thermal gradient should enable optimization of multiple temperatures in a single assay. Temperature differences of up to 24°C front-to-back can be created.
3. Peltier-driven thermal cycler which should features a maximum ramping speed of 5°C/sec, with an average ramp rate of 3.3°C/sec.
4. Has a thermal block operational range of 0–100°C.
5. Sample block temperature accuracy is  $\pm 0.2^\circ\text{C}$  of programmed target at 90°C, with a uniformity of  $\pm 0.3^\circ\text{C}$  well-to-well within 10 seconds of arrival at 90°C.
6. Optical system allows excitation and detection of up to two fluorescent dyes in a single reaction well.
7. Optics shuttle independently illuminates and detects fluorescence from each well with the same LED per channel without added fiber optics. The system uses three filtered LEDs for illumination and differentially detects emission using three filtered photodiodes (one for each channel).
8. Fixed optical path, directly over each well, eliminates the need to normalize for positional bias.
9. Optics shuttle excites fluorescent dyes with absorption spectra in the 450–535 nm range; optimally detects dyes with emission spectra in the 515–580 nm range.
10. One channel is dedicated for FRET and Protein Thermal Shift (Protein Melt) experiments — illuminate dyes with absorption spectra in the 450–490 nm range and detect dyes with emission spectra in the 560–580 nm range.
11. System reads all 96 wells in all channels within 12 seconds and in fast scan mode, the system reads all 96 wells within 3 seconds.
12. System should not require scheduled calibrations or follow a maintenance schedule. The instrument should be factory calibrated for commonly used fluorophores and ready-to-use upon completion of the installation.
13. Has a linear dynamic range of 10 orders of magnitude for detection of input samples.
14. Reaction volumes from 1–50  $\mu\text{L}$  can be used, 10–25  $\mu\text{L}$  recommended.
15. Detects  $\leq 10$  fmol of fluorescein.
16. System can be integrated with an automation system for hands-free operation.
17. Gene expression analysis can be performed by relative quantity ( $\Delta\text{Cq}$ ) or normalized expression ( $\Delta\Delta\text{Cq}$ ).
18. If reaction efficiencies are present, these will be automatically utilized in gene expression analysis.
19. Multiple reference genes can be assigned in normalized expression ( $\Delta\Delta\text{Cq}$ ) analysis.
20. Individual reaction efficiencies can be used in normalized expression ( $\Delta\Delta\text{Cq}$ ) analysis.
21. Image annotation function allows for automatic p-value annotation and addition of arrows, circles, and text directly onto graph images.
22. Software performs t-tests and 1- and 2-way ANOVA calculations
23. Will continue to run and complete a run if the software is stopped or interrupted. This prevents run data from being lost in case if there is unintentional interruption of the software. This function is especially valuable for precious or limited samples, whereby all data is not lost for a run that was interrupted.
24. For other lab works a conventional PCR should be supplied by vendor with following specification:
  - Should have a sample capacity of 96x0.2ml tubes, 0.2ml tube strips or 1x96-well plate
  - With Peltier heating and cooling
  - Should have gradient capability with having the feature of dynamic ramping (identical hold times) for all the 8 rows of a gradient
  - Should have a temperature differential range of 1-25 °C.
  - Should have intuitive 5.7" (14.5 cm) touch screen interface which can displays
  - graphics in high resolution for easy programming.
  - The touch screen should be responsive for both gloved and ungloved fingers.
  - Should be capable of running reaction volumes from 1-100ul.
  - Should have a maximum ramp rate of 4°C/second with an average ramp rate of
  - 2.5degC.
  - Should have a temperature range of 4-100° C

- Should have a gradient range of 30-100° C
  - Should have a temperature accuracy and uniformity of  $\pm 0.5^{\circ}$  C
  - Should have a memory of >500 programs with further expansion through a USB Flash drive for transfer of files
  - Should have block and calculated temperature control modes.
  - The software should have exportable Run logs and system error logs
  - Should have quick boot up time of not more than 1 min.
  - Should be quiet in operation.
  - System should have built in library of standard protocols for long PCR, fast PCR, Reverse transcription PCR etc.
  - Should have the feature of "instant incubation" to keep samples at constant temp. for Ligation and restriction digests application.
  - Should have power save mode.
25. UPS 2KVA with 60 minutes backup
26. Advanced computer system may have –
- Intel® Core™ i7 12700 12th gen
  - 8 GB DDR4-2933 MHz RAM
  - 512 GB PCIe® NVMe™ M.2 SSD
  - Intel® UHD Graphics 770, NO ODD
  - MS Windows 10 Pro 64-bit
  - HP 19.5" wide HD Monitor





## MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY, BATHINDA

**SANCTION REQUISITION FORM FOR PURCHASE AND PROCUREMENT (Beyond  
₹1:00 Lakh)**

**DURING FINANCIAL YEAR 2024-25**

(Please note that for any purchase more than Rs.1 Lac, it should be approved by  
Central Purchase Committee before proceeding further)

### Administrative & Financial Approval

Sanction NO: UNIV/2024-25/PHM/00021

Dated: Dec 18, 2024

1.Name OF Campus/Deptt./Section: Department of Pharmacy

2.Name OF Item(s) to be Procured:

Sr. No	Name of items with detailed Generic Specifications(s)(if required use Separate Sheet)	Quantity to Procure	Estimated Unit Cost(Rs.) Inclusive Tax(if any)* an estimate from the firm should be inclosed.	Total Estimated cost of Procurement (Rs) inclusive tax(if any)	Indigenous/imported item(s)
1	Bentonite 100g	2	₹ 135.000	₹ 270.000	Indegenious
2	Benzaldehyde 500ML	4	₹ 520.000	₹ 2,080.000	Indegenious
3	Benzamide 500g	1	₹ 960.000	₹ 960.000	Indegenious
4	Benzene 500ml	4	₹ 335.000	₹ 1,340.000	Indegenious
5	Benzidine Hydrochloride Solution 100ml	1	₹ 360.000	₹ 360.000	Indegenious
6	Benzil 250g	4	₹ 660.000	₹ 2,640.000	Indegenious
7	Benzoic acid 500g	3	₹ 360.000	₹ 1,080.000	Indegenious
8	Bial Reagent 250ml	2	₹ 245.000	₹ 490.000	Indegenious
9	Borax 500g	4	₹ 200.000	₹ 800.000	Indegenious
10	Bromine 500ml	1	₹ 1,600.000	₹ 1,600.000	Indegenious
11	Calamine 500g	1	₹ 620.000	₹ 620.000	Indegenious
12	Calcium Carbonate 500g	1	₹ 180.000	₹ 180.000	Indegenious
13	Calcium Chloride 500g	2	₹ 170.000	₹ 340.000	Indegenious
14	Calcium Oxide Crystals 500g	2	₹ 170.000	₹ 340.000	Indegenious
15	Carbon Tetrachloride 500ml	2	₹ 1,380.000	₹ 2,760.000	Indegenious
16	Carbopol 940 - 500g	4	₹ 1,990.000	₹ 7,960.000	Indegenious
17	Castor Oil 500ml	2	₹ 425.000	₹ 850.000	Indegenious
18	Chitosan 25gm	2	₹ 450.000	₹ 900.000	Indegenious
19	Chloral Hydrate 250gm	1	₹ 14,500.000	₹ 14,500.000	Indegenious
20	Chlorine Solution 100ml	1	₹ 250.000	₹ 250.000	Indegenious

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18/12/24

*M. K.*

21	Chloroform 1000ml	5	₹ 250.000	₹ 1,250.000	Indegenious
22	Chlorosulphonic acid 500ml	2	₹ 700.000	₹ 1,400.000	Indegenious
23	Citric acid 500g	1	₹ 380.000	₹ 380.000	Indegenious
24	Conc. Peppermint emulsion 50ml	1	₹ 500.000	₹ 500.000	Indegenious
25	Copper sulphate 500gm	2	₹ 510.000	₹ 1,020.000	Indegenious
26	Dextrose 500g	4	₹ 170.000	₹ 680.000	Indegenious
27	Di Phenyl Carbazide 25g	1	₹ 1,100.000	₹ 1,100.000	Indegenious
28	Diphenylamine 250g	1	₹ 500.000	₹ 500.000	Indegenious
29	Disodium hydrogen orthophosphate 500g	2	₹ 470.000	₹ 940.000	Indegenious
30	Dragendorff reagent 125ml	1	₹ 1,080.000	₹ 1,080.000	Indegenious
31	Eosine 25g	1	₹ 300.000	₹ 300.000	Indegenious
32	Ethanol 500ml	50	₹ 270.000	₹ 13,500.000	Indegenious
33	Either 500ml	4	₹ 340.000	₹ 1,360.000	Indegenious
34	Ethyl Acetate 2.5ltr	4	₹ 950.000	₹ 3,800.000	Indegenious
35	Ethyl acetoacetate 500ml	1	₹ 800.000	₹ 800.000	Indegenious
36	Ethyl cellulose 500g	2	₹ 4,500.000	₹ 9,000.000	Indegenious
37	Fehling's solution A 500ml	2	₹ 270.000	₹ 540.000	Indegenious
38	Fehling's solution B 500ml	2	₹ 390.000	₹ 780.000	Indegenious
39	Ferric chloride 500g	2	₹ 200.000	₹ 400.000	Indegenious
40	Formaldehyde - 500ml	4	₹ 190.000	₹ 760.000	Indegenious
41	Formic acid 500ml	1	₹ 420.000	₹ 420.000	Indegenious
42	Fructose 500g	2	₹ 480.000	₹ 960.000	Indegenious
43	Gallic acid 100g	1	₹ 760.000	₹ 760.000	Indegenious
44	Gelatin 500g	1	₹ 1,100.000	₹ 1,100.000	Indegenious
45	Glucose 500g	2	₹ 170.000	₹ 340.000	Indegenious
46	Hagers reagent 50ml	1	₹ 160.000	₹ 160.000	Indegenious
47	HPMC (Hydroxy propyl methyl cellulose) 50cps 1Kg	1	₹ 3,300.000	₹ 3,300.000	Indegenious
48	Hydrochloric acid 500ml	10	₹ 210.000	₹ 2,100.000	Indegenious
49	Hydrogen peroxide 1L	3	₹ 200.000	₹ 600.000	Indegenious
50	Iodine 100g	2	₹ 2,200.000	₹ 4,400.000	Indegenious
51	Lactophenol 500ml	1	₹ 190.000	₹ 190.000	Indegenious
52	Lead acetate 500g	1	₹ 500.000	₹ 500.000	Indegenious
53	Liquefied phenol (phenol crystal) 500gm	2	₹ 400.000	₹ 800.000	Indegenious
54	Liquid paraffin 500ml	2	₹ 280.000	₹ 560.000	Indegenious
55	Magnesium chloride 500g	1	₹ 200.000	₹ 200.000	Indegenious
56	Magnesium turnings 500g	1	₹ 1,250.000	₹ 1,250.000	Indegenious
57	Magnesium sulphate 500g	3	₹ 150.000	₹ 450.000	Indegenious
58	Mayer's reagent 125ml	1	₹ 200.000	₹ 200.000	Indegenious
59	Menthol 100gm	1	₹ 920.000	₹ 920.000	Indegenious
60	Methanol 2.5ltr	20	₹ 440.000	₹ 8,800.000	Indegenious
61	Methyl acetate 500ml	2	₹ 450.000	₹ 900.000	Indegenious
62	Methyl orange indicator 25g	1	₹ 140.000	₹ 140.000	Indegenious
63	Millon's reagent 125ml	3	₹ 550.000	₹ 1,650.000	Indegenious
64	Molisch reagent 100ml	1	₹ 190.000	₹ 190.000	Indegenious

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18/12/24

Much

65	n-butanol 2.5ltr	5	₹	₹ 6,000.000	Indegenious
			1,200.000		
66	Ninhydrin reagent 10gm	2	₹ 520.000	₹ 1,040.000	Indegenious
67	Nitric acid 500ml	8	₹ 325.000	₹ 2,600.000	Indegenious
68	Ophenylene diamine 100g	4	₹ 310.000	₹ 1,240.000	Indegenious
69	Orthophosphoric acid 500g	1	₹ 585.000	₹ 585.000	Indegenious
70	Oxalic acid 500g	1	₹ 310.000	₹ 310.000	Indegenious
71	Peppermint oil 100 ml	1	₹ 570.000	₹ 570.000	Indegenious
72	phathalic anhydride 500g	2	₹ 330.000	₹ 660.000	Indegenious
73	Phenolphthaline 50gm	1	₹ 210.000	₹ 210.000	Indegenious
74	Phenyl hydrazine 250ml	2	₹	₹ 2,100.000	Indegenious
			1,050.000		
75	Phloroglucinol 100gm	2	₹	₹ 6,900.000	Indegenious
			3,450.000		
76	Picric acid 500gm	1	₹ 980.000	₹ 980.000	Indegenious
77	Polyethylene glycol 400 (500gm)	2	₹ 510.000	₹ 1,020.000	Indegenious
78	Potassium chloride 500gm	2	₹ 200.000	₹ 400.000	Indegenious
79	Potassium chromate 500gm	1	₹ 790.000	₹ 790.000	Indegenious
80	Potassium dichromate 500g	1	₹ 800.000	₹ 800.000	Indegenious
81	Potassium dihydrogen phosphate 500g	5	₹ 550.000	₹ 2,750.000	Indegenious
82	Potassium hydroxide 500g	5	₹ 370.000	₹ 1,850.000	Indegenious
83	Potassium Iodide 100g	8	₹	₹ 12,800.000	Indegenious
			1,600.000		
84	Potassium permangnate 500g	4	₹ 450.000	₹ 1,800.000	Indegenious
85	Potasssium thiocynate 500gm	1	₹ 760.000	₹ 760.000	Indegenious
86	Pottasium sulphate 500g	2	₹ 330.000	₹ 660.000	Indegenious
87	Propylene glycol 500ml	1	₹ 600.000	₹ 600.000	Indegenious
88	Propylparaben 50g	1	₹	₹ 1,240.000	Indegenious
			1,240.000		
89	p-toluene sulfonamide 500g	2	₹	₹ 2,480.000	Indegenious
			1,240.000		
90	Pyridine 500 ml	1	₹ 610.000	₹ 610.000	Indegenious
91	resorcinol 250g	2	₹	₹ 3,200.000	Indegenious
			1,600.000		
92	ruthenium Red 1gm	2	₹	₹ 6,400.000	Indegenious
			3,200.000		
93	Saccharin 500gm	1	₹	₹ 1,790.000	Indegenious
			1,790.000		
94	Salicyclic acid 500gm	4	₹ 630.000	₹ 2,520.000	Indegenious
95	Seliwanoffs reagent 125ml	3	₹ 130.000	₹ 390.000	Indegenious
96	Silica gel for column chromatography (60-120mesh) 500g	5	₹ 410.000	₹ 2,050.000	Indegenious
97	Silica gen G for TLC 500gm	3	₹ 460.000	₹ 1,380.000	Indegenious
98	Silver nitrate 10gm	4	₹	₹ 5,280.000	Indegenious
			1,320.000		
99	Sodium bicarbonate 500g	4	₹ 190.000	₹ 760.000	Indegenious
100	sodium biphosphate 500g	2	₹ 500.000	₹ 1,000.000	Indegenious
101	sodium borate 500g	1	₹ 270.000	₹ 270.000	Indegenious
102	Sodium carbonate 500g	2	₹ 240.000	₹ 480.000	Indegenious
103	Sodium carbonate anhydroucs 500g	4	₹ 270.000	₹ 1,080.000	Indegenious

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Am 12/18/24  
 Jm 18/12/24

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33

104	sodium chloride 500g	10	₹ 170.000	₹ 1,700.000	Indegenious
105	Sodium citrate 500g	7	₹ 450.000	₹ 3,150.000	Indegenious
106	Sodium dihydrogen phosphate 500g	1	₹ 490.000	₹ 490.000	Indegenious
107	Sodium hydroxide 500g	6	₹ 280.000	₹ 1,680.000	Indegenious
108	Sodium lauryl sulphate 500g	2	₹ 500.000	₹ 1,000.000	Indegenious
109	Sodium nitrate 500g	3	₹ 330.000	₹ 990.000	Indegenious
110	Sodium nitroprusside 100gm	2	₹ 700.000	₹ 1,400.000	Indegenious
111	Sodium potassium tartarate 500g	2	₹ 750.000	₹ 1,500.000	Indegenious
112	Sodium starch glycolate 500gm	1	₹ 410.000	₹ 410.000	Indegenious
113	Sodium sulphate 500g	2	₹ 220.000	₹ 440.000	Indegenious
114	Sodium thiosulphate 500ml	1	₹ 170.000	₹ 170.000	Indegenious
115	Starch 500g	3	₹ 620.000	₹ 1,860.000	Indegenious
116	Sucrose 500g	2	₹ 170.000	₹ 340.000	Indegenious
117	Sulphate standard sol 100ml	1	₹ 2,750.000	₹ 2,750.000	Indegenious
118	Sulphuric acid 500ml	12	₹ 255.000	₹ 3,060.000	Indegenious
119	Talc 500g	2	₹ 135.000	₹ 270.000	Indegenious
120	Tannic acid 250gm	1	₹ 1,800.000	₹ 1,800.000	Indegenious
121	Tartaric acid 400g	1	₹ 450.000	₹ 450.000	Indegenious
122	Tert-butyl hydroperoxide 500ml	1	₹ 1,050.000	₹ 1,050.000	Indegenious
123	Tetrahydrofuran 500ml	2	₹ 610.000	₹ 1,220.000	Indegenious
124	Tollen's reagent 100ml	1	₹ 1,600.000	₹ 1,600.000	Indegenious
125	Toluene 2.5ltr	4	₹ 1,020.000	₹ 4,080.000	Indegenious
126	Tragacanth 500g	1	₹ 500.000	₹ 500.000	Indegenious
127	Trimethylamine 500ml	4	₹ 610.000	₹ 2,440.000	Indegenious
128	Trisodium citrate 200g	1	₹ 450.000	₹ 450.000	Indegenious
129	Triton X 100 (500ml)	1	₹ 550.000	₹ 550.000	Indegenious
130	Xanthan gum 1kg	1	₹ 1,700.000	₹ 1,700.000	Indegenious
131	Xylene 500ml	2	₹ 275.000	₹ 550.000	Indegenious
132	Zinc oxide	2	₹ 570.000	₹ 1,140.000	Indegenious
133	Amaranth 500gm	5	₹ 760.000	₹ 3,800.000	Indegenious
134	Ammonium oxalate 500g	1	₹ 550.000	₹ 550.000	Indegenious
135	Chitosan low MW 250g	1	₹ 5,150.000	₹ 5,150.000	Indegenious
136	Di-n-butyl phthalate 500ml	1	₹ 710.000	₹ 710.000	Indegenious
137	Ethylene glycol 500ml	4	₹ 575.000	₹ 2,300.000	Indegenious
138	Gram iodine 25gm	1	₹ 940.000	₹ 940.000	Indegenious
139	HPMC K 100M 5cps 100gm	1	₹ 5,400.000	₹ 5,400.000	Indegenious
140	Isopropyl Alcohol 1ltr	40	₹ 455.000	₹ 18,200.000	Indegenious
141	Kaolin (Dry form) 500g	1	₹ 265.000	₹ 265.000	Indegenious
142	L-cysteine 500g	1	₹ 9,300.000	₹ 9,300.000	Indegenious
143	Malachite green 25g	1	₹ 240.000	₹ 240.000	Indegenious
144	Nutrient Agar (M001) 500g	1	₹ 3,500.000	₹ 3,500.000	Indegenious

Angie 10/12/24  
Shrey 13/12/24

Mishra

145	Peppermint oil 100ml	1	₹ 1,000.000	₹ 1,000.000	Indegenious
146	Peptone (RM001) 500g	1	₹ 3,000.000	₹ 3,000.000	Indegenious
147	Polyethylene glycol 4000 - 500g	1	₹ 640.000	₹ 640.000	Indegenious
148	Potassium phosphate 500g	2	₹ 940.000	₹ 1,880.000	Indegenious
149	Safranine 25g	1	₹ 750.000	₹ 750.000	Indegenious
150	Sodium Dithionite 500g	1	₹ 880.000	₹ 880.000	Indegenious
151	Sodium Sulphide 500g	1	₹ 410.000	₹ 410.000	Indegenious
152	Tert-butyl hydroperoxide 500g	1	₹ 1,660.000	₹ 1,660.000	Indegenious
153	Pluronic F-68 500g	8	₹ 3,300.000	₹ 26,400.000	Indegenious
154	2,4-dinitrophenylhydrazine (100mg)	2	₹ 410.000	₹ 820.000	Indegenious
155	Acacia 500gm	2	₹ 385.000	₹ 770.000	Indegenious
156	Acetanilide 500gm	3	₹ 820.000	₹ 2,460.000	Indegenious
157	Acetic acid glacial 500ml	10	₹ 250.000	₹ 2,500.000	Indegenious
158	Acetone 500ml	7	₹ 250.000	₹ 1,750.000	Indegenious
159	Acetonitrile 500ml	1	₹ 480.000	₹ 480.000	Indegenious
160	Acetyl Chloride 500ml	1	₹ 475.000	₹ 475.000	Indegenious
161	Albumin 500g	2	₹ 1,810.000	₹ 3,620.000	Indegenious
162	Alginate 500g	2	₹ 1,600.000	₹ 3,200.000	Indegenious
163	Alpha Naphthol 100g	1	₹ 310.000	₹ 310.000	Indegenious
164	Aluminium Chloride 500g	1	₹ 280.000	₹ 280.000	Indegenious
165	4-Amino Benzoic Acid 500g	1	₹ 2,000.000	₹ 2,000.000	Indegenious
166	Ammonia 500ml	4	₹ 170.000	₹ 680.000	Indegenious
167	Ammonium acetate 500g	2	₹ 335.000	₹ 670.000	Indegenious
168	Ammonium chloride 500g	2	₹ 210.000	₹ 420.000	Indegenious
169	Tri-ammonium citrate 100g	1	₹ 1,110.000	₹ 1,110.000	Indegenious
170	Ammonium hydroxide 500ml	3	₹ 170.000	₹ 510.000	Indegenious
171	Ammonium sulphate 500g	4	₹ 170.000	₹ 680.000	Indegenious
172	Aniline 500ml	3	₹ 510.000	₹ 1,530.000	Indegenious
173	Aqueous Ammonia 500ml	1	₹ 70.000	₹ 70.000	Indegenious
174	L-Ascorbic Acid 100g	1	₹ 400.000	₹ 400.000	Indegenious
175	Barfoed's reagent 500ml	2	₹ 300.000	₹ 600.000	Indegenious
176	Barium Chloride 500gm	2	₹ 240.000	₹ 480.000	Indegenious
177	Barium sulphate 500g	2	₹ 265.000	₹ 530.000	Indegenious
178	Bees wax 500g	2	₹ 640.000	₹ 1,280.000	Indegenious
179	Benedict reagent 500ml	2	₹ 190.000	₹ 380.000	Indegenious
180	Thiobarbituric acid 25g	2	₹ 1,200.000	₹ 2,400.000	Indegenious
181	Trichloroacetic acid 100g	2	₹ 360.000	₹ 720.000	Indegenious
182	1,1,3,3-tetramethoxypropane 100ml	1	₹ 5,485.000	₹ 5,485.000	Indegenious
183	Acetylcholine iodide 10g	1	₹ 11,729.000	₹ 11,729.000	Indegenious
184	Isopropyl Alcohol 2.5ltr	2	₹ 1,700.000	₹ 3,400.000	Indegenious

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Dng 18/12/24

sh 18/12/24

Mute

185	5:5-dithiobis-2-nitrobenzoic acid (5g)	1	₹ 7,741.000	₹ 7,741.000	Indegenious
186	Butyl acetate 500ml	1	₹ 580.000	₹ 580.000	Indegenious
187	Glutathione (reduced) 25g	1	₹ 3,950.000	₹ 3,950.000	Indegenious
188	sodium dodecyl sulphate 100g	1	₹ 1,800.000	₹ 1,800.000	Indegenious
189	Tris Hydrochloride 100g	1	₹ 1,300.000	₹ 1,300.000	Indegenious
190	Carboxymethyl cellulose sodium 500g	2	₹ 1,100.000	₹ 2,200.000	Indegenious
191	hexadecyltrimethylammonium bromide (100g)	4	₹ 500.000	₹ 2,000.000	Indegenious
192	Bovine Albumin (5g)	2	₹ 1,100.000	₹ 2,200.000	Indegenious
193	Veratric acid	1	₹ 8,054.000	₹ 8,054.000	Indegenious
Total				₹ 3,96,934.000	

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\* In Case of repair: Specify Clearly Whether item is Under Guarantee/Warranty (If any). Yes/No.

2(a) Please Select Whether the Item is: (i) Recurring ☐ (ii) Non-Recurring ☐

3. Justification Of Proposed procurement.

Procurement of Chemicals for research work in Department of Pharm. Sci. & Tech.  
 The chemicals are required to conduct practicals/Experiments of UG as well as PG programme running in the department.

There are around 450 students in the department.

No purchase of has been done since last 2 years.

4. Mode Of Proposed Procurement (Tick whichever is applicable).

☒ I. Govt. E-Marketplace Portal (GeM).

II. If not through GeM, then

Mention the reason \_\_\_\_\_

Select the mode from below mentioned options: \_\_\_\_\_ (Copy Attached).

- Upto ₹1.99 Lakh by Calling Quotations through registered/Speed Post.
- Through Rate Contract entered by the University.
- As Proprietary Item.
- Through e-tendering.

It is Certified that: this is not a Split Purchase.

Signature: \_\_\_\_\_

Name of Lab/Section Incharge: NA

Designation: \_\_\_\_\_

Signature: \_\_\_\_\_

Name Of Indentor: Dr.

Varinder Singh-PHM10041

Designation: Assistant Professor

5. The above said item(s) are available/not available in the Central Store(not required in the case of books, medicines and repairing Work.)

Store Keeper

6. Availability Of Fund:

Budget Head: 193700208 - Raw Material & Consumables/ Arclic/Glass casting of models/Sample Testing/Cherectrisation/chemicals etc.

Project Name:

- Budgetary Provision, as Per allocation: ₹ 5,48,000.00
- Less: funds already utilized during year: ₹ 1,47,800.00
- Available fund: ₹ 4,00,200.00
- Less: Estimated amount of present proposal: ₹ 3,99,404.00
- Balance available: ₹ 796.00
- Add: Buyback amount: NA

Departmental Clerk

7. Following committee is recommended for purchase/procurement.

- Indentor: Dr. Varinder Singh-PHM10041
- HOD/Incharge/or his Nominee Dr. Amit Bhatia (chairman)
- One member from other department(not below the rank of lab Suptd) to be Nominated by Registrar/ Campus Director/Director of Constituent College (as the case may be) Dr. Rakesh Kumar (Chairman)
- Nominee Of Accounts(Nominated by Finace Officer) Dr. Rakesh Kumar
- Nominee Of Purchase(Nominated by PI(S&P)) Dr. Rakesh Kumar

Note: Inspection Committee will consist of the members mentioned at Sr. No. I, II, III.

HOD/Section Incharge/PI

Recommended by Campus Director/Director of Constituent College.

Recommended for approval ☒

Approved/Not Approved

REGISTRAR

VICE CHANCELLOR

UNIV/2024-25/PHM/00021



## MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY, BATHINDA

### SANCTION REQUISITION FORM FOR PURCHASE AND PROCUREMENT (Beyond ₹1:00 Lakh)

**DURING FINANCIAL YEAR 2024-25**

(Please note that for any purchase more than Rs.1 Lac, it should be approved by  
Central Purchase Committee before proceeding further)

### Administrative & Financial Approval

**Sanction NO:** UNIV/2024-25/AGR/000111

**Dated:** Feb 13, 2025

**1.Name OF Campus/Deptt./Section:** Department of Agriculture

**2.Name OF Item(s) to be Procured:**

Sr. No	Name of items with detailed Generic Specifications(s)(if required use Separate Sheet)	Quantity to Procure	Estimated Unit Cost(Rs.) Inclusive Tax(if any)* an estimate from the firm should be inclosed.	Total Estimated cost of Procurement (Rs) inclusive tax(if any)	Indigenous/imported item(s)
1	Supply of Material, Installation Poly House (Fan and Pad) Size 576 Sqm commissioning on site .	1	₹ 10,19,000.000	₹ 10,19,000.000	indigenous
<b>Total</b>				<b>₹ 10,19,000.000</b>	

\* In Case of repair:Specify Clearly Whether item is Under Guarantee/Warranty(If any). Yes/No.

**2(a)Please Select Whether the Item is:** (i) Recurring ☐ (ii) Non-Recurring ☒

**3.Justification Of Proposed procurement.**

Supply of Material, Installation Poly House (Fan and Pad) Size 576 Sqm commissioning on site

**4.Mode Of Proposed Procurement (Tick whichever is applicable).**

I. Govt. E-Marketplace Portal (GeM).

II. If not through GeM, then

Mention the reason \_\_\_\_\_ (Copy Attached).

**Select the mode from below mentioned options:**

- Upto ₹1.99 Lakh by Calling Quotations through registered/Speed Post.
- Through Rate Contract entered by the University.
- As Proprietary Item.
- Through e-tendering.

Signature: [Signature]

Signature: [Signature]

Name of Lab/Section Incharge: Dr.

Wineet Chawla

Name Of Indentor:

Rajinder Singh Smagh-  
TXE10112

Designation: Assistant Professor

Designation: Sr. Technician

5. The above said item(s) are available/not available in the Central Store (not required in the case of books, medicines and repairing Work.)

[Signature]  
Store Keeper

6. Availability Of Fund:

Budget Head: 2082004 -

Project Name:

Machinery/Equipment & Appliances

- a. Budgetary Provision, as Per allocation: ₹ 1,51,77,000.00
- b. Less: funds already utilized during year: ₹ 1,34,64,651.00
- c. Available fund: ₹ 17,12,349.00
- d. Less: Estimated amount of present proposal: ₹ 10,19,000.00
- e. Balance available: ₹ 6,93,349.00
- f. Add: Buyback amount: NA

[Signature]  
Departmental Clerk

7. Following committee is recommended for purchase/procurement.

- I. Indentor: Rajinder Singh Smagh-TXE10112
- II. HOD/Incharge/or his Nominee J.S. Tiwana (chairman)
- III. One member from other department (not below the rank of lab Suptd) to be Nominated by Registrar/ Campus Director/Director of Constituent College (as the case may be) Dr. K. S. Singh
- IV. Nominee Of Accounts (Nominated by Finance Officer) Dr. Sat Pal
- V. Nominee Of Purchase (Nominated by PI(S&P)) SL Jorwade

Note: Inspection Committee will consist of the members mentioned at Sr. No. I, II, III.

[Signature]  
HOD/Section Incharge/PI

Recommended by Campus Director/Director of Constituent College.

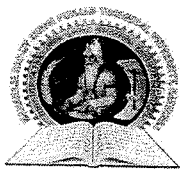
Recommended for approval [Signature]

[Signature]  
REGISTRAR

Approved/Not Approved

[Signature]  
VICE CHANCELLOR

UNIV/2024-25/AGR/000111



## Technical Specification of Poly House (Fan & Pad) 576 sq. Mtr

Details of Quantity to be procured - Total Budget Layout - Rs. 10.19 Lacs

Item No.-1. Poly House (Fan & Pad) 576 sq. Mtr Quantity: - 1 (one) = Rs. 10.19 Lacs

**Justification for Procurement:** Newly started department SASE has to develop the Horticulture labs & field for the B.Sc. (Honrs.) Agriculture Sciences and B.Tech Agricultural Engineering to meet the minimum requirements of the PSCAE and ICAR for the accreditation of the course. **Polyhouse (Fan and Pad)** is essential for practical learning in horticulture and agriculture, providing a controlled environment for crop production and research. The facility supports hands-on training in high-yield, climate-resilient farming methods. As per ICAR the minimum requirement of 1 (one) **Polyhouse** for B.Sc. Hons. Agriculture. It enables students to study microclimate management, protected cultivation techniques, and precision farming as per **ICAR and PSCAE norms**. The department will develop Horticulture farm and lab. The facility will be developed near the Civil canteen

General Technical Specifications of the items:

Item No.	Item	Technical Specification
1.	<u>Poly House (Fan &amp; Pad)</u> <u>576 sq. Mtr</u>	<p>Corridors – Maximum 2m all sides for area calculation.  Shape – Aero dynamitic  Structure – Hot Dip Galvanized structure. Galvanization of the structural members of BIS standards and should not be less than 300 GSM.  Stability of Structure – Structure should with stand to minimum wind velocity of 150 km/hr.  Structure :-All columns will be of size 76 of 2.0 mm thickness and side corridor member of size 60 mm of 2 mm thickness, roof purlins of size 48 mm of 2mm thickness, Trusses of size 42 &amp; 33mm of 2 mm thickness. Gutter thickness is 2 mm.(Thickness Tolerance+or-10%). The structural design should be sound enough to withstand 100km/hr of wind speed. And minimum load of 20kg/m<sup>2</sup>.  Multi-layered Polythene film Fixed properties- 200 micron thick, UV stabilized, UV blocking IR Reflective Cooling, diffused, Anti dust, Anti drip. Optional property-, Anti sulphur for the crops where sulphur consumption is high.  Automated Humidity and temperature control inside the poly house</p> <p><b>Profile</b></p> <ul style="list-style-type: none"> <li>Made of GI</li> <li>Galvanization: 200 to 250 gr per running meter</li> <li>Higher grade: &gt;300 gr per running meter</li> </ul> <p><b>Gutter</b></p> <ul style="list-style-type: none"> <li>Slope: 1-1.5%</li> </ul>

*[Signature]*



# Maharaja Ranjit Singh Punjab Technical University

Badal Road, Bathinda -151001

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਬਾਦਲ ਰੋਡ, ਬਠਿੰਡਾ

## SCHOOL OF AGRICULTURE SCIENCES & ENGINEERING

Ref. No.- MRSPTU/SASE/25/

Date-

### • Civil Work

- Brick wall construction in CM 1:4
- 0.3 m thick, 0.9 m height above ground, and 0.45 m below ground (32 m long for the cooling pad side)
- 0.15 m thick, 0.2 m height above ground, and 0.2 m below ground on three sides
- Fully plastered on both sides

### • Electrical Control Panel

- Consists of MCB, relay, switches, RYB indicator, panel, voltmeter
- MS body duly painted
- Designed for fan and pad control
- All electrical gadgets and appliances must meet BIS standards

Multi layered plastic water tank 500 lits. X 1 no., for cooling pad Climate Control System

**Fan Pad System** :- Numbers of fan depends upon size of Fan-fad house and it should be capable of exhausting air volume in one minutes.

Exhaust Fans – 50" however it depends upon size of fan-pad house with louvers, 1.5 HP – 3 phase ISI standard electric motor.

Cellulose cooling pads of 1.8 meter with 100 mm / 150 mm thickness covering the area properly, PVC water distribution system, screen / disc filter, valve and pumps etc.

Control panel with manual operation, temp and humidity sensors.

The necessary digital controller with sensory device & accessories of standard quality as per requirement should be provided to operate the fan & pad system for controlling temperature & humidity inside the Green house.

**Fogging System** :- In consist of four way anti leak fogger 28 lph flow rate (working pressure should be mentioned at which we will be able to get required particle size, fogger spacing along the lateral and lateral spacing) and particle size 80-100 micron, 16 mm lateral class-3, PVC pipe 6 kg / cm<sup>2</sup>, valves, filter, pump, panel with volt meter, MCB, relay, temp and humidity sensor etc. complete application rate 3 mm/hr.

### Gutter Slope

- Slope must be between 1.0% to 1.5% towards the gutter side.
- If the gutter length exceeds 40 m, the slope should be provided on both sides to prevent damage and leakage.

### Gable Side Slope

- Slope should be between 0% to 1.0%.

### Foundations

- Telescopic type foundation.
- Column size: 45 cm × 45 cm × 90 cm depth.
- Concrete mix: CC 1:2:4 ratio, properly compacted over

2/2/22



# **MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY, BATHINDA**

**SANCTION REQUISITION FORM FOR PURCHASE AND PROCUREMENT (Beyond ₹1:00  
Lakh)**

**DURING FINANCIAL YEAR 2024-25**

(Please note that for any purchase more than Rs.1 Lac, it should be approved by  
Central Purchase Committee before proceeding further)

*Annexure VII*

41

## **Administrative & Financial Approval**

Sanction NO: UNIV/2024-25/AGR/000101

Dated: Feb 11, 2025

1.Name OF Campus/Deptt./Section: Department of Agriculture

2.Name OF Item(s) to be Procured:

Sr. No	Name of items with detailed Generic Specifications(s)(if required use Separate Sheet)	Quantity to Procure	Estimated Unit Cost(Rs.) Total Inclusive Tax(if any)* and estimate from the firm should be inclosed.	Estimated cost Procurement (Rs) inclusive tax(if any)	Indigenous/imported item(s)
1	Shaded Net structure installation and commissioning 1000 sq mtr	1	₹ 7,10,000.000	₹ 7,10,000.000	indigenous
Total				₹ 7,10,000.000	

\* In Case of repair:Specify Clearly Whether item is Under Guarantee/Warranty(If any). Yes/No.

2(a)Please Select Whether the Item is: (i) Recurring ☐ (ii) Non-Recurring ☐

3.Justification Of Proposed procurement.

SASE MRSPTU Field and Lab equipment

*Horticulture*

4.Mode Of Proposed Procurement (Tick whichever is applicable).

I. Govt. E-Marketplace Portal (GeM).

II. If not through GeM, then

Mention the reason \_\_\_\_\_ (Copy Attached).

Select the mode from below mentioned options:

- Upto ₹1.99 Lakh by Calling Quotations through registered/Speed Post.
- Through Rate Contract entered by the University.
- As Proprietary Item.
- Through e-tendering.

It is Certified that: this is not a Split Purchase.

Signature: \_\_\_\_\_

Name of Lab/Section Incharge: Dr.

Kanwal Jit Singh

Designation: \_\_\_\_\_

Signature: \_\_\_\_\_

Name Of Indentor: Rajinder

Singh Smagh-TXE10112

Designation: *Sr. Tech*

5.The above said item(s) are available/not available in the Central Store(not required in the case of books,medicines and repairing Work.)

## 6. Availability Of Fund:

Budget Head: 2082004 - Machinery/Equipment &  
Appliances

Project Name:

- a. Budgetary Provision, as Per allocation: ₹ 1,51,77,000.00  
b. Less: funds already utilized during year: ₹ 1,32,71,651.00  
c. Available fund: ₹ 19,05,349.00  
d. Less: Estimated amount of present proposal: ₹ 7,10,000.00  
e. Balance available: ₹ 11,95,349.00  
f. Add: Buyback amount: NA

*[Signature]*  
Departmental Clerk

## 7. Following committee is recommended for purchase/procurement.

- I. Indentor: Rajinder Singh Smagh-TXE10112  
II. HOD/Incharge/or his Nominee J.S. Tiwari (chairman)  
III. One member from other department (not below the rank of lab Suptd) to be Nominated by Registrar/ Campus Director/Director of  
Constituent College (as the case may be) St. Kewal Singh  
IV. Nominee Of Accounts (Nominated by Finance Officer) St. Kewal Singh  
V. Nominee Of Purchase (Nominated by PI(S&P)) Mr. K. K. Singh

Note: Inspection Committee will consist of the members mentioned at Sr. No. I, II, III.

*[Signature]*  
HOD/Section Incharge/PI

Recommended by Campus Director/Director of Constituent College.

Recommended for approval ✓

*[Signature]*  
Approved/Not Approved

*[Signature]*  
REGISTRAR

*[Signature]*  
VICE CHANCELLOR

UNIV/2024-25/AGR/000101



#### Technical Specification of Shade Net Structure 1000 sq. Mtr

#### Details of Quantity to be procured - Total Budget Layout - Rs. 7.10 Lacs

**Item No.-1. Shade Net Structure 1000 sq. Mtr Quantity: - 1 (one) = Rs. 7.10 Lacs**

**Justification for Procurement:** Newly started department SASE has to develop the Horticulture labs & field for the B.Sc. (Honrs.) Agriculture Sciences and B.Tech Agricultural Engineering to meet the minimum requirements of the PSCAE and ICAR for the accreditation of the course. A shade net house is essential for protected cultivation, ensuring controlled environmental conditions for plant growth. As per ICAR the minimum requirement of 1 (one) shade net house for B.Sc. Hons. Agriculture. This structure supports nursery raising, vegetable cultivation, and experimentation with diverse plant species. The department will develop Horticulture farm and lab. The facility will be developed near the Civil canteen

General Technical Specifications of the items:

Item No.	Item	Technical Specification
1.	<b><u>Shade Net Structure 1000 sq. Mtr</u></b>	<p>Structure:- Folding/dismantable, on nut bolts, structure should with stand to minimum wind velocity of 130 Km/hr</p> <p><b>Structural Components:</b></p> <ul style="list-style-type: none"> <li><b>Foundation pipe:</b> 1m to 1.2m length, 48mm OD, 3mm thickness.</li> <li><b>Net house columns:</b> 4m height, 76mm &amp; 60mm OD, 2mm thickness.</li> <li><b>Top purlins:</b> 4m length, 42mm &amp; 48mm OD, 2mm thickness.</li> <li><b>3/4/5 way connectors:</b> 200mm each side, 48mm OD, 2mm thickness.</li> <li><b>Clamps and nut bolts:</b> As per requirement.</li> <li><b>Corridors:</b> 2.0m width, 60mm OD, 2mm thickness.</li> <li><b>Horizontal members:</b> 1m to 1.5m length, 42mm OD, 2mm thickness.</li> </ul> <p><b>Entry Room Specifications:</b></p> <ul style="list-style-type: none"> <li><b>Entry room size:</b> 4m x 4m, 4m x 3m, or 3m x 3m (prefer sliding doors).</li> <li><b>Double door entry:</b> Inner door made of frame stitched with a 40-mesh insect net, with a minimum 50cm overlapping.</li> <li><b>Door size:</b> 1.2m x 2m, made of GI square pipe.</li> <li><b>Frame of door:</b> Hot dip galvanized ISA covering all sides to close gaps.</li> <li><b>Lower half of door:</b> Aluminum sheet.</li> <li><b>Upper half of door:</b> 5mm thick polycarbonate sheet.</li> <li><b>Flooring:</b> 4-inch RCC with a foot dip.</li> </ul>

25/11/2020

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25/11/2020



# Maharaja Ranjit Singh Punjab Technical University

Badal Road, Bathinda -151001

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

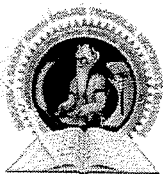
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## SCHOOL OF AGRICULTURE SCIENCES & ENGINEERING

Ref. No.- MRSPTU/SASE/25/

Date-

		<p><b>Insect Net:</b> Forty mesh insect net on all four sides and top</p> <p><b>Shade Net:</b> 50% shade net installed beneath the insect net</p> <p><b>Poly Sheet:</b> 200-micron anti-dust, anti-fog, diffused poly sheet for the entry room</p> <p><b>Profiles:</b> Galvolume or GI profiles of 200 to 220 grams per running meter.</p> <p><b>Spring Insert:</b> UV-stabilized zigzag spring with 2.3mm diameter, made of high-carbon steel with cold galvanization, used to fix the shade net to the profile.</p> <p><b>Foundation Work:</b> Telescopic type with a column size of 45cm x 45cm x 90cm, using CC 1:2:4 ratio compacted over a 10cm layer of 1:8:16. Two hold fasts placed perpendicularly at 20cm intervals, starting 20cm from the base.</p> <p><b>Top Purlins:</b> Fixed on each column at the top with a grid size of 6m x 4m.</p> <p><b>Drip System</b></p> <ul style="list-style-type: none"><li>• Main and Sub-main Line: PVC 63mm x 4 kg/cm<sup>2</sup> – 48 meters</li><li>• 16mm LLDPE Lateral Line CL-2: 70 meters</li><li>• In-line 16mm, 1.3 to 2.4 LPH @ 20-40cm CL2: 1500 meters</li><li>• Ball Valve 63mm (Molded Seal, Plain): 2 Nos.</li><li>• Sub-main Flush Valve 40mm: 2 Nos.</li></ul> <p><b>Fogging System</b></p> <ul style="list-style-type: none"><li>• Main and Sub-main Line: PVC 50mm x 6 kg/cm<sup>2</sup> – 42 meters</li><li>• 16mm LLDPE Lateral Line: 400 meters</li><li>• 4-way Fogger Assembly with HPLPD: 96 Nos.</li><li>• Ball Valve 50mm (Teflon Seal, Plain): 1 No.</li><li>• Sub-main Flush Valve 40mm: 2 Nos.</li><li>• GI Wire 2mm Thick: 350 meters</li></ul> <p><b>Filtration Unit</b></p> <ul style="list-style-type: none"><li>• Disc Filter 25 m<sup>3</sup>/hr: 1 No.</li><li>• Sand Filter/Hydrocyclone 25 m<sup>3</sup>/hr: 1 No.</li><li>• Manifold GI+GMV/HDPE: 1 No.</li><li>• Ventury Assembly Complete: 1 No.</li><li>• Air Release Valve Assembly 1": 1 No.</li></ul>
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## MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY, BATHINDA

### SANCTION REQUISITION FORM FOR PURCHASE AND PROCUREMENT (Beyond ₹1:00 Lakh)

**DURING FINANCIAL YEAR 2024-25**

(Please note that for any purchase more than Rs.1 Lac, it should be approved by  
Central Purchase Committee before proceeding further)

### Administrative & Financial Approval

**Sanction NO:** UNIV/2024-25/AGR/000112

**Dated:** Feb 13, 2025

**1.Name OF Campus/Deptt./Section:** Department of Agriculture

**2.Name OF Item(s) to be Procured:**

Sr. No	Name of items with detailed Generic Specifications(s)(if required use Separate Sheet)	Quantity to Procure	Estimated Unit Cost(Rs.) Inclusive Tax(if any)* and estimate from the firm should be inclosed.	Total Estimated cost of Procurement (Rs) inclusive tax(if any)	Indigenous/imported item(s)
1	Supply of Material, Installation Poly House (Naturally Ventilated) Size 576 Sqm commissioning on sit	1	₹ 6,89,000.000	₹ 6,89,000.000	indigenous
<b>Total</b>				<b>₹ 6,89,000.000</b>	

\* In Case of repair: Specify Clearly Whether item is Under Guarantee/Warranty (If any). Yes/No.

2(a) Please Select Whether the Item is: (i) Recurring ☐ (ii) Non-Recurring ☐

**3. Justification Of Proposed procurement.**

Supply of Material, Installation Poly House (Naturally Ventilated) Size 576 Sqm commissioning on sit

*Horticulture*

*[Signature]*

**4. Mode Of Proposed Procurement (Tick whichever is applicable).**

I. Govt. E-Marketplace Portal (GeM).

II. If not through GeM, then

Mention the reason \_\_\_\_\_ (Copy Attached).


**Select the mode from below mentioned options:**

- Upto ₹1.99 Lakh by Calling Quotations through registered/Speed Post.
- Through Rate Contract entered by the University.
- As Proprietary Item.
- Through e-tendering.

*[Signature]*

It is Certified that: this is not a Split Purchase.

Signature: 

Signature: 

Name of Lab/Section Incharge: Dr.

Wineet Chawla

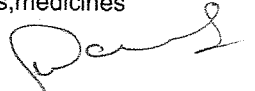
Name Of Indentor:

Rajinder Singh Smagh-  
TXE10112

Designation: Assistant Professor

Designation: Sr. Technician

5. The above said item(s) are available/not available in the Central Store(not required in the case of books, medicines and repairing Work.)

  
Store Keeper

6. Availability Of Fund:

Budget Head: 2082004 -

Project Name:

Machinery/Equipment & Appliances

- Budgetary Provision, as Per allocation: ₹ 1,51,77,000.00
- Less: funds already utilized during year: ₹ 1,44,83,651.00
- Available fund: ₹ 6,93,349.00
- Less: Estimated amount of present proposal: ₹ 6,89,000.00
- Balance available: ₹ 4,349.00
- Add: Buyback amount: NA

  
Departmental Clerk

7. Following committee is recommended for purchase/procurement.

- Indentor: Rajinder Singh Smagh-TXE10112
- HOD/Incharge/or his Nominee J. S. Tiwari (chairman)
- One member from other department(not below the rank of lab Suptd) to be Nominated by Registrar/ Campus Director/Director of Constituent College (as the case may be) Sh. Kailash S. S. S. S.
- Nominee Of Accounts(Nominated by Finance Officer) Sh. Manish S.
- Nominee Of Purchase(Nominated by PI(S&P)) Sh. Jaiwade

Note: Inspection Committee will consist of the members mentioned at Sr. No. I, II, III.

  
HOD/Section Incharge/PI

Recommended by Campus Director/Director of Constituent College.

Recommended for approval 



REGISTRAR

Approved/Not Approved

  
VICE CHANCELLOR

UNIV/2024-25/AGR/000112



# Maharaja Ranjit Singh Punjab Technical University

Badal Road, Bathinda -151001

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਬਾਠਿੰਡਾ

## SCHOOL OF AGRICULTURE SCIENCES & ENGINEERING

Ref. No.- MRSPTU/SASE/25/

Date-

Annexure:

### Technical Specification of Poly House Naturally Ventilated 576 sq. Mtr

Details of Quantity to be procured - Total Budget Layout - Rs. 6.89 Lacs

Item No.-1. Poly House Naturally Ventilated 576 sq. Mtr Quantity: - 1 (one) = Rs. 6.89 Lacs

**Justification for Procurement:** Newly started department SASE has to develop the Horticulture labs & field for the B.Sc. (Honrs.) Agriculture Sciences and B.Tech Agricultural Engineering to meet the minimum requirements of the PSCAE and ICAR for the accreditation of the course. **Poly House Naturally Ventilated** is essential for practical learning in horticulture and agriculture, providing a controlled environment for crop production and research. The facility supports hands-on training in high-yield, climate-resilient farming methods. As per ICAR the minimum requirement of 1 (one) **Polyhouse** for B.Sc. Hons. Agriculture. It enables students to study microclimate management, protected cultivation techniques, and precision farming as per **ICAR and PSCAE norms**. The department will develop Horticulture farm and lab. The facility will be developed near the Civil canteen

General Technical Specifications of the items:

Item No.	Item	Technical Specification
1.	<u>Poly House Naturally Ventilated 576 sq. Mtr</u>	<ol style="list-style-type: none"> <li>1. Height of NVPH - 6 m to 7 m (Normally 6.5 m)</li> <li>2. Height of Gutter- 4 m to 4.5 m (Normally 4.5 m)</li> <li>3. Height of Top Vent- 1m (or 10% area of covered area whichever is higher)</li> <li>4. Bay Size- 8 m x 4 m. as per requirement</li> <li>5. Corridors - Maximum 2 m all sides for area calculation.</li> <li>6. Type -Saw tooth design.</li> <li>7. Shape - Aero dynamic</li> <li>8. Structure - Hot Dip Galvanized structure. Galvanization of the structural members of BIS standards and should not be less than 300 GSM.</li> <li>9. Stability of Structure - Structure should with stand minimum wind speed of 80 km/hr.</li> <li>10. Structure: Galvanized tubular structure.</li> <li>11. Grid Size: 8m x 4m with 2m balcony/canopy on all sides.</li> <li>12. Gutter Height: 4.5m.</li> <li>13. Gutter Slope: 1-2% slope to be provided in civil structural work.</li> <li>14. Apron Height: 1.2 to 1.5m on all four sides with GI fixing; poly film embedded in soil.</li> <li>15. Curtain: Manual side roll-up curtains (2m) with handle; 40-mesh insect net below with a fixing</li> </ol>

2/12



# Maharaja Ranjit Singh Punjab Technical University

Badal Road, Bathinda -151001

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)  
ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਬਾਠਿੰਡਾ, ਬਠਿੰਡਾ

## SCHOOL OF AGRICULTURE SCIENCES & ENGINEERING

Ref. No.- MRSPTU/SASE/25/

Date-

mechanism.

16. Ridge Height: 6.5m with an overlapping open vent (0.9 to 1.05m) for ventilation.
17. Columns: 76mm OD/2mm thick GI pipe.
18. Trusses: Bottom - 60mm OD/2mm thick GI pipe; Top chords & members - 48mm/42mm OD/2mm thick; Bracing - 42mm OD/2mm thick GI pipe.
19. Purlins: 42mm OD/2mm thick GI pipe.
20. Balcony: 60mm OD/2mm thick GI pipe.
21. Foundation Depth: 1000-1200mm; 3mm, 60 OD pipes; PCC 1:2:4 mix with proper filling for structural stability.
22. Gutter: 1.2mm thick GI sheet with 500mm perimeter trapezoidal section, bolted to purlins.
23. Fasteners: M6-M10 bolts & nuts (15-110mm length) with corrosion-resistant plating.
24. Polyfilm: 200-micron thick UV-stabilized, diffused, anti-fog/drip multilayer poly film (Ginegar/Suncool).
25. Poly Fixing: GI locking profiles with smooth GI wire spring for single/double poly fixing.
26. Gables: Two-way GI poly lock for securing poly sheets along with curtain tops.
27. Doors: GI frame doors, 1m x 2m.
28. Aerodynamic Shape: Curvature-shaped balcony pipes (48mm OD/2mm thick GI) for wind resistance.
29. Shade Net: 50% white/black collapsible shading net below gutter
30. Insect Net: White 40-mesh insect net below roll-up curtains and ridge ventilation

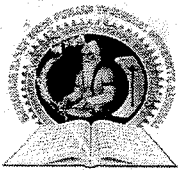
### Drip System

1. Main & Sub-main Line: PVC 63mm x 4 kg/cm<sup>2</sup> - more than 36m
2. 16mm LLDPE Lateral Line CL-2: more than 60m
3. In-line 16mm, 1.3 to 2.4 LPH @ 20-40cm CL2: more than 750m
4. Ball Valve 63mm (Moulded Seal, Plain): 2 Nos.
5. Sub-main Flush Valve 40mm: 2 Nos.

### Fogging System

1. Main & Sub-main Line: PVC 63mm x 4 kg/cm<sup>2</sup> - more than 36m
2. 16mm LLDPE Lateral Line: more than 200m
3. 4-way Fogger Assembly with HPLPD: more than 50 Nos.
4. Ball Valve 50mm (Teflon Seal, Plain): 2 Nos.

2/17



# Maharaja Ranjit Singh Punjab Technical University

Badal Road, Bathinda -151001

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਬਾਦਲ ਰੋਡ, ਬਠਿੰਡਾ

## SCHOOL OF AGRICULTURE SCIENCES & ENGINEERING

Ref. No.- MRSPTU/SASE/25/

Date-

		<p>5. Sub-main Flush Valve 40mm: 2 Nos.</p> <p>6. GI Wire 2mm Thick: more than 200m</p> <p><b>Filtration Unit</b></p> <p>1. Disc Filter 25 m<sup>3</sup>/hr: 1 No.</p> <p>2. Sand Filter/Hydrocyclone 10 m<sup>3</sup>/hr: 1 No.</p> <p>3. Manifold GI+GMV/HDPE: 1 No.</p> <p>4. Venture Assembly Complete: 1 No.</p> <p>5. Air Release Valve Assembly 1": 1 No.</p>
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## MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY, BATHINDA

### SANCTION REQUISITION FORM FOR PURCHASE AND PROCUREMENT (Beyond ₹1:00 Lakh)

DURING FINANCIAL YEAR 2024-25

(Please note that for any purchase more than Rs.1 Lac, it should be approved by  
Central Purchase Committee before proceeding further)

### Administrative & Financial Approval

Sanction NO: UNIV/2024-25/AGR/00089

Dated: Feb 11, 2025

1. Name OF Campus/Deptt./Section: Department of Agriculture

2. Name OF Item(s) to be Procured:

Sr. No	Name of items with detailed Generic Specifications(s) (if required use Separate Sheet)	Quantity to be Procured	Estimated Unit Cost (Rs.) Inclusive Tax (if any)* and estimate from the firm should be inclosed.	Total Estimated cost of Procurement (Rs) inclusive tax (if any)	Indigenous/imported item(s)
1	Modular Cold Room	1	₹ 4,90,000.000	₹ 4,90,000.000	indigenous
Total				₹ 4,90,000.000	

\* In Case of repair: Specify Clearly Whether item is Under Guarantee/Warranty (If any). Yes/No.

2(a) Please Select Whether the Item is: (i) Recurring ☐ (ii) Non-Recurring ☐

3. Justification Of Proposed procurement.

SASE MRSPTU Lab equipment for Horticulture and Food Science Laboratory as per ICAR norms

4. Mode Of Proposed Procurement (Tick whichever is applicable).

I. Govt. E-Marketplace Portal (GeM).

II. If not through GeM, then

Mention the reason \_\_\_\_\_ (Copy Attached).

Select the mode from below mentioned options:

- Upto ₹1.99 Lakh by Calling Quotations through registered/Speed Post.
- Through Rate Contract entered by the University.
- As Proprietary Item.
- Through e-tendering.

It is Certified that: this is not a Split Purchase.

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

Name of Lab/Section Incharge: Dr.

Kanwal Jit Singh

Name Of Indentor:

Rajinder Singh Smagh-  
TXE10112

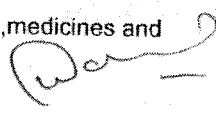
Designation:

Assistant Professor

Designation:

Sr. Teacher

5. The above said item(s) are available/not available in the Central Store(not required in the case of books, medicines and repairing Work.)

  
Store Keeper

6. Availability Of Fund:

Budget Head: 2082004 - Machinery/Equipment  
& Appliances

Project Name:

- a. Budgetary Provision, as Per allocation: ₹ 1,51,77,000.00  
b. Less: funds already utilized during year: ₹ 81,07,151.00  
c. Available fund: ₹ 70,69,849.00  
d. Less: Estimated amount of present proposal: ₹ 4,90,000.00  
e. Balance available: ₹ 65,79,849.00  
f. Add: Buyback amount: NA

  
Departmental Clerk

7. Following committee is recommended for purchase/procurement.

- I. Indentor: Rajinder Singh Smagh-TXE10112  
II. HOD/Incharge/or his Nominee J. S. Tiwana (chairman)  
III. One member from other department(not below the rank of lab Suptd) to be Nominated by Registrar/ Campus Director/Director of Constituent College (as the case may be) Dr. Tejinder Singh  
IV. Nominee Of Accounts(Nominated by Finance Officer) Sh. Subhvir Singh  
V. Nominee Of Purchase(Nominated by PI(S&P)) Sh. Paragat Kan

Note: Inspection Committee will consist of the members mentioned at Sr. No. I, II, III.

  
HOD/Section Incharge/PI

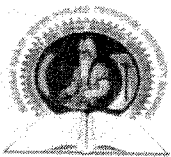
Recommended by Campus Director/Director of Constituent College.

Recommended for approval ✓
  
REGISTRAR

Approved/Not Approved

  
VICE CHANCELLOR

UNIV/2024-25/AGR/00089



## Technical Specification of Modular Cold Room

Details of Quantity to be procured - Total Budget Layout - Rs. 4.90 Lacs

Item No.-1. Modular Cold Room Quantity: - 1 (one) = Rs. 4.90 Lacs

**Justification for Procurement:** Newly started department SASE has to develop the Horticulture lab for the B.Sc. (Hons.) Agriculture Sciences and B.Tech Agricultural Engineering to meet the minimum requirements of the PSCAE and ICAR for the accreditation of the course. The cold room will used for demonstration and storage of vegetables and results of storage and study. As per ICAR and PSCAE norms, it aids in practical, disease diagnosis, and precision agriculture. Its integration ensures hands-on training and skill development for B.Sc. Hons Agriculture students.

General Technical Specifications of the items:

Item No.	Item	Technical Specification
1	Cold Room	<p><b>Cold Storage Room Size dimension :-</b>  <b>Structure details - 50mm Ppgi PUF Panal</b>  <b>Structure size-10'x10'x7'ft average volume size</b>  <b>700ftcube</b>  <b>Cold Storage Room Flush Door Size - 2x7ft</b>  <b>Include- aluminium door handle, locks</b></p> <p><b>2. Cooling machine Details:-</b>  <b>outdoor and indoor -1.5 Ton</b>  <b>Temperature range- 5-10 degree</b>  <b>include:-</b>  <b>Automatic Temperature control and machine control panel</b>  <b>Temperature Display</b>  <b>Copper pipe fittings</b>  <b>Electric connections</b></p> <p><b>3. Warranty Details:-</b>  <b>All equipment 1 year complete warranty</b>  <b>Complete commissioning and installation of Site.</b></p>

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*



## MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY, BATHINDA

**SANCTION REQUISITION FORM FOR PURCHASE AND PROCUREMENT (Beyond ₹1:00 Lakh)**

**DURING FINANCIAL YEAR 2024-25**

(Please note that for any purchase more than Rs.1 Lac, it should be approved by  
Central Purchase Committee before proceeding further)

### Administrative & Financial Approval

**Sanction NO:** UNIV/2024-25/AGR/000113

**Dated:** Feb 13, 2025

**1.Name OF Campus/Deptt./Section:** Department of Agriculture

**2.Name OF Item(s) to be Procured:**

Sr. No	Name of items with detailed Generic Specifications(s)(if required use Separate Sheet)	Quantity to Procure	Estimated Unit Cost(Rs.) Total Inclusive Tax(if any)* and estimate from the firm should be inclosed.	Estimated cost of Procurement (Rs) inclusive tax(if any)	Indigenous/imported item(s)
1	UV Visible Spectrometer	1	₹ 2,09,000.000	₹ 2,09,000.000	indigenous
2	Visible Spectrometer	1	₹ 70,000.000	₹ 70,000.000	indigenous
<b>Total</b>				<b>₹ 2,79,000.000</b>	

\* In Case of repair:Specify Clearly Whether item is Under Guarantee/Warranty(If any). Yes/No.

**2(a)Please Select Whether the Item is:** (i) Recurring ☐ (ii) Non-Recurring ☐

**3.Justification Of Proposed procurement.**

UV Visible Spectrometer and Visible Spectrometer for Horticulture and Soil Sciences

**4.Mode Of Proposed Procurement (Tick whichever is applicable).**

I. Govt. E-Marketplace Portal (GeM).

II. If not through GeM, then

Mention the reason \_\_\_\_\_ (Copy Attached).

**Select the mode from below mentioned options:**

- Upto ₹1.99 Lakh by Calling Quotations through registered/Speed Post.
- Through Rate Contract entered by the University.
- As Proprietary Item.
- Through e-tendering.

**It is Certified that: this is not a Split Purchase.**

**Signature:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

**Name of Lab/Section Incharge:** Dr.

**Name Of Indentor:** Rajinder

Wineet Chawla

Singh Smagh-TXE10112

**Designation:** Asst Prof

**Designation:** Sr. Tech

5.The above said item(s) are available/not available in the Central Store(not required in the case of books,medicines and repairing Work.)

Store Keeper

**6.Availability Of Fund:**

**Budget Head:** 2082004 - Machinery/Equipment & Appliances

**Project Name:**

- a. Budgetary Provision,as Per allocation: ₹ 1,51,77,000.00
- b. Less:funds already utilized during year: ₹ 1,48,93,651.00
- c. Available fund: ₹ 2,83,349.00
- d. Less:Estimated amount of present proposal: ₹ 2,79,000.00
- e. Balance available: ₹ 4,349.00
- f. Add:Buyback amount: NA

Departmental Clerk

**7.Following committee is recommended for purchase/procurement.**

- I. Indentor: Rajinder Singh Smagh-TXE10112
- II. HOD/Incharge/or his Nominee J.S. Tiwari (chairman)
- III. One member from other department(not below the rank of lab Suptd) to be Nominated by Registrar/ Campus Director/Director of Constituent College (as the case may be) St. Parnagat & VS CIVIL
- IV. Nominee Of Accounts(Nominated by Finace Officer) Ch. Parnagat
- V. Nominee Of Purchase(Nominated by PI(S&P)) Mrs. Parnagat

**Note:**Inspection Committee will consist of the members mentioned at Sr. No. I,II,III.

HOD/Section Incharge/PI

Recommended by Campus Director/Director of Constituent College.

Recommended for approval ✓

REGISTRAR

Approved/Not Approved

VICE CHANCELLOR

UNIV/2024-25/AGR/000113



## Technical Specification of Spectrophotometer

Details of Quantity to be procured - **Total Budget Layout - Rs. 2.79 Lacs**

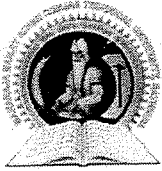
Item No.-1. Visible Spectrophotometer Quantity: - 1 (one) = Rs. 0.70 Lacs

Item No.-2. UV visible Spectrophotometer Quantity: - 1 (one) = Rs. 2.09 Lacs

**Justification for Procurement:** Newly started department SASE has to develop the Horticulture & Soil Science lab for the B.Sc. (Hons.) Agriculture and B.Tech Agricultural Engineering to meet the minimum requirements of the PSCAE and ICAR for the accreditation of the course. A spectrophotometer is essential for soil science and horticulture labs as it provides precise measurement of nutrient concentrations, such as nitrogen, phosphorus, and potassium, which are crucial for soil fertility analysis and plant health assessment. It aids in analyzing pigments like chlorophyll and carotenoids, helping evaluate plant stress, growth, and productivity.

General Technical Specifications of the items:

Item No.	Item	Technical Specification
1.	Visible Spectrophotometer For Soil Science	<b>Wavelength Setting and Scanning:-</b> Automatic <b>Type of Optical System</b> Single Beam <b>Monochromator Type:-</b> Holographic Grating <b>Detector Type:-</b> Photodiode <b>Spectral Bandwidth Type:-</b> Fixed Bandwidth <b>Source Wavelength Range</b> 320 nm- 1000 nm <b>Wavelength Accuracy</b> $\pm 1$ nanometer <b>Warranty:-</b> minimum 1 year
2	UV Visible Spectrophotometer For Horticulture	<b>Light Source</b> Halogen Lamp, Deuterium Lamp, LED, Tungsten Halogen Lamp, Xenon Flash <b>Switching of Light Source:-</b> Automatic <b>Wavelength Setting and Scanning:-</b> Automatic <b>Type of Spectrophotometer:-</b> UV - VISIBLE <b>Type of Optical System :-</b> Double Beam <b>Detector Type:-</b> Photodiode <b>Spectral Bandwidth Type:-</b> Fixed Bandwidth <b>Source Wavelength Range:-</b> 190 nm- 1100 nm <b>Warranty:-</b> minimum 1 year



## MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY, BATHINDA

### SANCTION REQUISITION FORM FOR PURCHASE AND PROCUREMENT (Beyond ₹1:00 Lakh)

DURING FINANCIAL YEAR 2024-25

(Please note that for any purchase more than Rs.1 Lac, it should be approved by  
Central Purchase Committee before proceeding further)

### Administrative & Financial Approval

Sanction NO: UNIV/2024-25/AGR/00093

Dated: Feb 11, 2025

1.Name OF Campus/Deptt./Section: Department of Agriculture

2.Name OF Item(s) to be Procured:

Sr. No	Name of items with detailed Generic Specifications(s)(if required use Separate Sheet)	Quantity to Procure	Estimated Unit Cost(Rs.) Inclusive Tax(if any)* and estimate from the firm should be inclosed.	Total Estimated cost of Procurement (Rs) inclusive tax(if any)	Indigenous/imported item(s)
1	Nitrogen Analyser	2	₹ 4,00,000.000	₹ 8,00,000.000	indigenous
Total				₹ 8,00,000.000	

\* In Case of repair:Specify Clearly Whether item is Under Guarantee/Warranty(If any). Yes/No.

2(a)Please Select Whether the Item is: (i) Recurring ☐ (ii) Non-Recurring ☐

3.Justification Of Proposed procurement.

SASE MRSPTU Lab equipment for Soil Science Lab as per ICAR Norms

4.Mode Of Proposed Procurement (Tick whichever is applicable).

I. Govt. E-Marketplace Portal (GeM).

II. If not through GeM, then

Mention the reason \_\_\_\_\_ (Copy Attached).

Select the mode from below mentioned options:

- Upto ₹1.99 Lakh by Calling Quotations through registered/Speed Post.
- Through Rate Contract entered by the University.
- As Proprietary Item.
- Through e-tendering.

It is Certified that: this is not a Split Purchase.

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

Name of Lab/Section Incharge: Dr.

Wineet Chawla

Name Of Indentor:

Rajinder Singh Smagh-  
TXE10112

Designation:

Asst. Prof.

Designation:

Sr. Tech

5. The above said item(s) are available/not available in the Central Store(not required in the case of books, medicines and repairing Work.)

Store Keeper

6. Availability Of Fund:

Budget Head: 2082004 - Machinery/Equipment  
& Appliances

Project Name:

- a. Budgetary Provision, as Per allocation: ₹ 1,51,77,000.00  
 b. Less: funds already utilized during year: ₹ 97,27,151.00  
 c. Available fund: ₹ 54,49,849.00  
 d. Less: Estimated amount of present proposal: ₹ 8,00,000.00  
 e. Balance available: ₹ 46,49,849.00  
 f. Add: Buyback amount: NA

Departmental Clerk

7. Following committee is recommended for purchase/procurement.

- I. Indentor: Rajinder Singh Smagh-TXE10112  
 II. HOD/Incharge/or his Nominee J.S. Tiwari (chairman)  
 III. One member from other department(not below the rank of lab Suptd) to be Nominated by Registrar/ Campus Director/Director of Constituent College (as the case may be) Dr. Pooja Kuma  
 IV. Nominee Of Accounts(Nominated by Finance Officer) Sh. Maninder  
 V. Nominee Of Purchase(Nominated by PI(S&P)) Mrs. Gita

Note: Inspection Committee will consist of the members mentioned at Sr. No. I, II, III.

HOD/Section Incharge/PI

Recommended by Campus Director/Director of Constituent College.

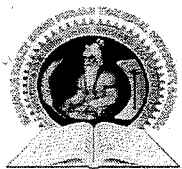
Recommended for approval ☒

REGISTRAR

Approved/Not Approved

VICE CHANCELLOR

UNIV/2024-25/AGR/00093



## Technical Specification of Nitrogen analyzers

### **Details of Quantity to be procured - Total Budget Layout - Rs. 8.0 Lacs**

**Item No.-1. Nitrogen analyzers Quantity: - 2 (one) Rs. 4.0lacs= Rs. 8.0 Lacs**

**Justification for Procurement:** Newly started department SASE has to develop the Agronomy and Soil Science lab for the B.Sc. (Hons.) Agriculture and B.Tech Agricultural Engineering to meet the minimum requirements of the PSCAE and ICAR for the accreditation of the course. Nitrogen analyser is essential for accurately determining nitrogen and protein content in soil, fertilizers, and plant tissues, crucial for assessing soil fertility and crop nutrition aligning with ICAR and PSCAE guidelines.

General Technical Specifications of the items:

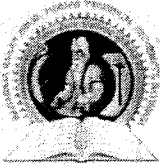
Item No.	Item	Technical Specification
1.	<u>Nitrogen analyzers</u>	<ul style="list-style-type: none"><li>• <b>Tubes</b> – Straight quartz tubes</li><li>• <b>Auto Sampler</b> – Up to 4 discs of 30 positions, pneumatic operation</li><li>• <b>Measuring Range (Nitrogen%)</b> – 0.001 - 100</li><li>• <b>Analysis Time</b> – 3 minutes</li><li>• <b>Combustion Temperature</b> – 900°C</li><li>• <b>Power Supply</b> – 220V, 50Hz, 150W</li><li>• <b>Detector</b> – TCD auto calibrating</li><li>• <b>Storage</b> – Data stored in .xls format</li><li>• <b>Precision</b> – <math>\pm 0.002</math> at 0.003%</li><li>• <b>Sample Size</b> – 1 gram</li><li>• <b>Accuracy</b> – 0.1% RDS</li><li>• <b>Leak Test</b> – Automatic by zone</li><li>• <b>Detection Limit (mgN)</b> – 0.001</li><li>• <b>Noise Level</b> – 50 decibels</li><li>• <b>Certifications</b> – ISO Certified, NABL/ILAC test reports available</li></ul>

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## MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY, BATHINDA

Annexure XII

59

### SANCTION REQUISITION FORM FOR PURCHASE AND PROCUREMENT (Beyond ₹1:00 Lakh)

DURING FINANCIAL YEAR 2024-25

(Please note that for any purchase more than Rs.1 Lac, it should be approved by  
Central Purchase Committee before proceeding further)

### Administrative & Financial Approval

Sanction NO: UNIV/2024-25/AGR/00091

Dated: Feb 11, 2025

1.Name OF Campus/Deptt./Section: Department of Agriculture

2.Name OF Item(s) to be Procured:

Sr. No	Name of items with detailed Generic Specifications(s)(if required use Separate Sheet)	Quantity to Procure	Estimated Unit Cost(Rs.) Inclusive Tax(if any)* and estimate from the firm should be inclosed.	Total Estimated cost of Procurement (Rs) inclusive tax(if any)	Indigenous/Imported item(s)
1	Seed Germinator 285 Litre	2	₹ 1,25,000.000	₹ 2,50,000.000	indigenous
2	Seed Germinator 170 litre	3	₹ 1,05,000.000	₹ 3,15,000.000	indigenous
Total				₹ 5,65,000.000	

\* In Case of repair: Specify Clearly Whether item is Under Guarantee/Warranty(If any). Yes/No.

2(a) Please Select Whether the Item is: (i) Recurring ☐ (ii) Non-Recurring ☐

3. Justification Of Proposed procurement.

SASE MRSPTU Lab equipment purchase

Plant Breeding Lab, Seed Science & Technology  
Agronomy, Agro Forestry & Horticulture

4. Mode Of Proposed Procurement (Tick whichever is applicable).

I. Govt. E-Marketplace Portal (GeM).

II. If not through GeM, then

Mention the reason \_\_\_\_\_ (Copy Attached).

Select the mode from below mentioned options:

- a. Upto ₹1.99 Lakh by Calling Quotations through registered/Speed Post.
- b. Through Rate Contract entered by the University.
- c. As Proprietary Item.
- d. Through e-tendering.

It is Certified that: this is not a Split Purchase.

Signature: [Signature]

Name of Lab/Section Incharge: Dr.

Wineet Chawla

Designation: Asst. Ad. Officer

Signature: Sr. Tedi

Name Of Indentor:

Rajinder Singh Smagh-  
TXE10112

Designation: Sr. Tedi

5. The above said item(s) are available/not available in the Central Store (not required in the case of books, medicines and repairing Work.)

[Signature]  
Store Keeper

6. Availability Of Fund:

Budget Head: 2082004 - Machinery/Equipment  
& Appliances

Project Name:

- a. Budgetary Provision, as Per allocation: ₹ 1,51,77,000.00
- b. Less: funds already utilized during year: ₹ 89,82,151.00
- c. Available fund: ₹ 61,94,849.00
- d. Less: Estimated amount of present proposal: ₹ 5,65,000.00
- e. Balance available: ₹ 56,29,849.00
- f. Add: Buyback amount: NA

[Signature]  
Departmental Clerk

7. Following committee is recommended for purchase/procurement.

- I. Indentor: Rajinder Singh Smagh-TXE10112
- II. HOD/Incharge/or his Nominee J. S. Taneja (chairman)
- III. One member from other department (not below the rank of lab Suptd) to be Nominated by Registrar/ Campus Director/Director of Constituent College (as the case may be) Dr. Vande P. S. Pharsay
- IV. Nominee Of Accounts (Nominated by Finance Officer) Dr. Vande P. S. Pharsay
- V. Nominee Of Purchase (Nominated by PI(S&P)) Dr. Balbir

Note: Inspection Committee will consist of the members mentioned at Sr. No. I, II, III.

[Signature]  
HOD/Section Incharge/PI

Recommended by Campus Director/Director of Constituent College.

Recommended for approval ✓

[Signature]  
REGISTRAR

Approved/Not Approved

[Signature]  
VICE CHANCELLOR

UNIV/2024-25/AGR/00091



Annexure:

## Technical Specification of Seed Germinator

**Details of Quantity to be procured - Total Budget Layout - Rs. 5.65 Lacs**

**Item No.-1.** Seed Germinator (285 litres) Quantity: - 2 (Two) Rs. 1,25,000/- = **Rs. 2.50 Lacs**

**Item No.-2** Seed Germinator (170 litres), Quantity: - 03 (Three) @ Rs. 105,000/- = **Rs. 3.15 Lacs**

**Justification for Procurement:** Newly started department SASE has to develop the Agronomy, Plant breeding, Horticulture labs for the B.Sc. (Honrs.) Agriculture Sciences and B.Tech Agricultural Engineering to meet the minimum requirements of the PSCAE and ICAR for the accreditation of the course. As per ICAR the minimum requirement of 5 (five) different capacity of Seed germinator in B.Sc. Hons. Agriculture. The seed germinator equipment provides hands-on training for B.Sc. Hons Agriculture students, aligning with ICAR and PSCAE norms. These instruments facilitate practical learning in soil analysis, seed germination, crop physiology, and plant breeding techniques.

General Technical Specifications of the items:

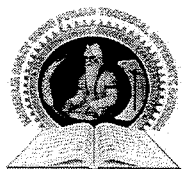
Item No.	Item	Technical Specification
1.	Seed Germinator (285 litres)  <b><u>For Plant Breeding Lab, Seed Sciences and Technology Lab</u></b>	<b>Capacity:</b> 285 liters <b>Temperature and Humidity</b> <ol style="list-style-type: none"> <li><b>Temperature Fluctuation:</b> <math>\pm 0.5^{\circ}\text{C}</math></li> <li><b>Relative Humidity Range:</b> 10% RH to 95% RH</li> <li><b>Temperature Range:</b> <math>5^{\circ}\text{C}</math> to <math>50^{\circ}\text{C}</math></li> <li><b>Temperature Sensor:</b> PT-100</li> <li><b>Temperature Precision:</b> <math>0.1^{\circ}\text{C}</math></li> <li><b>Humidity Sensor:</b> Non-condensing type</li> <li><b>Humidity Control:</b> Natural humidity with water inside</li> <li><b>Temperature Controller:</b> HMI + PLC</li> <li><b>Temperature Uniformity:</b> <math>\pm 1^{\circ}\text{C}</math></li> </ol> <b>Construction</b> <ol style="list-style-type: none"> <li><b>Evaporator:</b> Finned tube</li> <li><b>Timer:</b> Automatic</li> <li><b>Compressor:</b> As required</li> <li><b>Insulation:</b> PU Foam</li> <li><b>Optional Features:</b> Caster wheels</li> <li><b>Display:</b> LCD Display</li> <li><b>Number of Chambers:</b> Single</li> <li><b>External Construction:</b> Powder-coated SS 304 stainless steel</li> <li><b>Number of Trays:</b> 5</li> <li><b>Alarm:</b> Audio/Visual alarm for temperature &amp; humidity deviations</li> <li><b>Heater:</b> Kanthal A-1 Tubular Heater</li> </ol>

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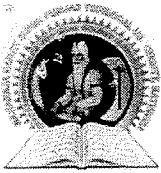
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		<p>12. <b>Internal Construction:</b> High-grade SS 304 stainless steel</p> <p>13. <b>Refrigerant:</b> CFC-free refrigerant</p> <p>14. <b>Shelves:</b> Painted steel wire</p> <p>15. <b>Doors:</b> Solid and glass doors with magnetic gasket</p> <p>16. <b>Lighting:</b> Fluorescent lamps</p> <p>17. <b>Power Supply:</b> 220 Volts</p> <ul style="list-style-type: none"><li>● Warranty 3 years Comprehensive warranty from the date of installation</li></ul>
2	<p>Seed Germinator (170 litre)</p> <p><u>For Agronomy &amp; Agro forestry and Horticulture Lab</u></p>	<p><b>Capacity:</b> 170 liters</p> <p><b>Temperature and Humidity</b></p> <ol style="list-style-type: none"><li>1. <b>Temperature Fluctuation:</b> <math>\pm 1^{\circ}\text{C}</math></li><li>2. <b>Relative Humidity Range:</b> 55% RH to 98% RH</li><li>3. <b>Temperature Range:</b> <math>5^{\circ}\text{C}</math> to <math>60^{\circ}\text{C}</math></li><li>4. <b>Temperature Sensor:</b> PT-100</li><li>5. <b>Temperature Precision:</b> <math>0.1^{\circ}\text{C}</math></li><li>6. <b>Humidity Sensor:</b> Non-condensing type</li><li>7. <b>Humidity Control:</b> Natural humidity with water inside</li><li>8. <b>Temperature Controller:</b> PID Controller</li><li>9. <b>Temperature Uniformity:</b> <math>\pm 1^{\circ}\text{C}</math></li></ol> <p><b>Construction</b></p> <ol style="list-style-type: none"><li>1. <b>Evaporator:</b> Finned tube</li><li>2. <b>Timer:</b> Automatic</li><li>3. <b>Compressor:</b> As required</li><li>4. <b>Insulation:</b> 75 mm PUFF</li><li>5. <b>Optional Features:</b> Caster wheels</li><li>6. <b>Display:</b> LED</li><li>7. <b>Number of Chambers:</b> Single</li><li>8. <b>External Construction:</b> Epoxy powder-coated MS sheets</li><li>9. <b>Number of Trays:</b> 3</li><li>10. <b>Alarm:</b> Audio/Visual alarm for temperature &amp; humidity deviations</li><li>11. <b>Heater:</b> Kanthal A-1 Tubular Heater</li><li>12. <b>Internal Construction:</b> High-grade SS 304 stainless steel</li><li>13. <b>Refrigerant:</b> CFC-free refrigerant</li><li>14. <b>Shelves:</b> Stainless steel perforated shelves</li><li>15. <b>Doors:</b> Solid and glass doors with magnetic gasket</li><li>16. <b>Lighting:</b> Fluorescent lamps</li><li>17. <b>Power Supply:</b> 220 Volts</li></ol> <ul style="list-style-type: none"><li>● Warranty 3 years Comprehensive warranty from the date of installation</li></ul>



## MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY, BATHINDA

### SANCTION REQUISITION FORM FOR PURCHASE AND PROCUREMENT (Beyond ₹1.00 Lakh)

DURING FINANCIAL YEAR 2024-25

(Please note that for any purchase more than Rs.1 Lac, it should be approved by  
Central Purchase Committee before proceeding further)

### Administrative & Financial Approval

Sanction NO: UNIV/2024-25/AGR/00090

Dated: Feb 11, 2025

1.Name OF Campus/Deptt./Section: Department of Agriculture

2.Name OF Item(s) to be Procured:

Sr. No	Name of items with detailed Generic Specifications(s)(if required use Separate Sheet)	Quantity to Procure	Estimated Unit Cost(Rs.) Inclusive Tax(if any)* an estimate from the firm should be inclosed.	Total Estimated cost of Procurement (Rs) inclusive tax(if any)	Indigenous/imported item(s)
1	BOD Incubator 200 litre or more	2	₹ 95,000.000	₹ 1,90,000.000	indigenous
2	BOD Incubator 150 litre or more	3	₹ 65,000.000	₹ 1,95,000.000	indigenous
<b>Total</b>				<b>₹ 3,85,000.000</b>	

\* In Case of repair:Specify Clearly Whether item is Under Guarantee/Warranty(If any). Yes/No.

2(a)Please Select Whether the Item is: (i) Recurring ☐ (ii) Non-Recurring ☐

3.Justification Of Proposed procurement.

SASE MRSPTU Lab Equipments  
Soil Science Lab, Micro Biology, Plant Pathology  
Plant Breeding and Biotechnology

4.Mode Of Proposed Procurement (Tick whichever is applicable).

I. Govt. E-Marketplace Portal (GeM).

II. If not through GeM, then

Mention the reason \_\_\_\_\_ (Copy Attached).

Select the mode from below mentioned options:

- Upto ₹1.99 Lakh by Calling Quotations through registered/Speed Post.
- Through Rate Contract entered by the University.
- As Proprietary Item.
- Through e-tendering.

It is Certified that: this is not a Split Purchase.

*[Signature]*

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

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Name of Lab/Section Incharge: Dr.  
Kanwal Jit SinghName Of Indentor:  
Rajinder Singh Smagh-  
TXE10112Designation: A.PDesignation: Sr. Tcd

5. The above said item(s) are available/not available in the Central Store(not required in the case of books, medicines and repairing Work.)

Store Keeper

6. Availability Of Fund:

Budget Head: 2082004 - Machinery/Equipment  
& Appliances

Project Name:

- a. Budgetary Provision, as Per allocation: ₹ 1,51,77,000.00  
 b. Less: funds already utilized during year: ₹ 85,97,151.00  
 c. Available fund: ₹ 65,79,849.00  
 d. Less: Estimated amount of present proposal: ₹ 3,85,000.00  
 e. Balance available: ₹ 61,94,849.00  
 f. Add: Buyback amount: NA

Departmental Clerk

7. Following committee is recommended for purchase/procurement.

- I. Indentor: Rajinder Singh Smagh-TXE10112  
 II. HOD/Incharge/or his Nominee J. S. Pawan (chairman)  
 III. One member from other department(not below the rank of lab Suptd) to be Nominated by Registrar/ Campus Director/Director of Constituent College (as the case may be) Dr. Sudhanshu Path  
 IV. Nominee Of Accounts(Nominated by Finance Officer) Sh. Gyandeep  
 V. Nominee Of Purchase(Nominated by PI(S&P)) Sh. Janki

Note: Inspection Committee will consist of the members mentioned at Sr. No. I, II, III.

HOD/Section Incharge/PI

Recommended by Campus Director/Director of Constituent College.

Recommended for approval \_\_\_\_\_

REGISTRAR

Approved/Not Approved \_\_\_\_\_

VICE CHANCELLOR

UNIV/2024-25/AGR/00090



#### Technical Specification of BOD Incubator

#### Details of Quantity to be procured - Total Budget Layout - Rs. 3.75 Lacs

**Item No.-1.** BOD Incubator (200 or more litre), Quantity: - 2 (Two) @ Rs. 95,000/-= **Rs. 1.80 Lacs**

**Item No.-2** BOD Incubator (150 or more litre), Quantity: - 03 (Three) @ Rs. 65,000/-= **Rs. 1.95 Lacs**

**Justification for Procurement:** Newly started department SASE has to develop the Plant breeding, Soil Sciences and Plant Pathology labs for the B.Sc. (Hons.) Agriculture Sciences and B.Tech Agricultural Engineering to meet the minimum requirements of the PSCAE and ICAR for the accreditation of the course. As per ICAR the minimum requirement of 5 (five) different capacity of BOD Incubator in B.Sc. Hons. Agriculture for maintains controlled temperature for studying biochemical oxygen demand in microbial samples. The department will develop Plant breeding, Soil Sciences and Plant Pathology labs

General Technical Specifications of the items:

Item No.	Item	Technical Specification
1.	BOD Incubator  <b>For Plant Bio Technology, Soil Sciences,</b>	<ul style="list-style-type: none"> <li>● Construction:- Double walled construction Inner chamber made up of Stainless Steel SS, and outer chamber also made up of Powder Coated GI sheet. In between Inner and outer chamber sufficient PUF Insulation provided to minimize the heat infiltration.</li> <li>● Inner chamber:- volume 200 lits or more</li> <li>● Operating Temperature User selectable Temperature Range of 5 °C to 60°C</li> <li>● Other feature :- Removable tray, Temperature sensor, Door hinges, Door handle with lock &amp; key, PID temperature controller, Analog ampere meter, Pilot lamp, Safety thermostat, On/Off MCB, Refrigeration system, Power cord, Caster wheels, Solid door, Heater, Temperature High/Low Safety alarm</li> <li>● Air circulation: Motorised air circulation system to ensure the uniformity of temperature throughout the chamber.</li> <li>● Warranty 3 years Comprehensive warranty from the date of installation</li> </ul>
2	BOD Incubator  <b>For Animal Sciences, Plant Pathology And Micro Biology</b>	<ul style="list-style-type: none"> <li>● Construction:- Double walled construction Inner chamber made up of Stainless Steel SS, and outer chamber also made up of Powder Coated GI sheet. In between Inner and outer chamber sufficient PUF Insulation provided to minimize the heat infiltration.</li> <li>● Inner chamber:- volume 150 lits or more</li> <li>● Operating Temperature User selectable Temperature Range of 5 °C to 60°C</li> </ul>



# Maharaja Ranjit Singh Punjab Technical University

Badal Road, Bathinda -151001

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਬਾਦਲ ਰੋਡ, ਬਠਿੰਡਾ

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## SCHOOL OF AGRICULTURE SCIENCES & ENGINEERING

Ref. No.- MRSPTU/SASE/25/

Date-

		<ul style="list-style-type: none"><li>● Other feature :- Toughened glass window, Air circulation fan, Removable tray, Temperature sensor, Door hinges, Door handle with lock &amp; key, PID temperature controller, Analog ampere meter, Pilot lamp, Safety thermostat, On/Off MCB, Refrigeration system, Power cord, Caster wheels, Solid door, Heater, Temperature High/Low Safety alarm, Digital Ampere Meter, On/Off Switch, Touch Screen PID Controller, Automatic Co2 Injection in the chamber for sterilization with solenoid valve</li><li>● Air circulation: Axial fan circulation system to ensure the uniformity of temperature throughout the chamber.</li><li>● Warranty 3 years Comprehensive warranty from the date of installation</li></ul>
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## MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY, BATHINDA

Annexure - XIV

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### SANCTION REQUISITION FORM FOR PURCHASE AND PROCUREMENT (Beyond ₹1:00 Lakh)

DURING FINANCIAL YEAR 2024-25

(Please note that for any purchase more than Rs.1 Lac, it should be approved by  
Central Purchase Committee before proceeding further)

### Administrative & Financial Approval

Sanction NO: UNIV/2024-25/AGR/00097

Dated: Feb 11, 2025

1.Name OF Campus/Deptt./Section: Department of Agriculture

2.Name OF Item(s) to be Procured:

Sr. No	Name of items with detailed Generic Specifications(s)(if required use Separate Sheet)	Quantity to Procure	Estimated Unit Cost(Rs.) Inclusive Tax(if any)* and estimate from the firm should be inclosed.	Total Estimated cost of Procurement (Rs) inclusive tax(if any)	Indigenous/imported item(s)
1	Binocular Microscope	50	₹ 12,000.000	₹ 6,00,000.000	indigenous
2	Stereo Microscope	6	₹ 30,000.000	₹ 1,80,000.000	indigenous
3	Microscope	12	₹ 5,000.000	₹ 60,000.000	indigenous
4	Microscope with Camera	3	₹ 40,000.000	₹ 1,20,000.000	indigenous
5	Fluorescence Microscope	1	₹ 3,00,000.000	₹ 3,00,000.000	indigenous
Total				₹ 12,60,000.000	

\* In Case of repair: Specify Clearly Whether item is Under Guarantee/Warranty(If any). Yes/No.

2(a) Please Select Whether the Item is: (i) Recurring ☐ (ii) Non-Recurring ☐

3. Justification Of Proposed procurement.

SASE MRSPTU Lab equipment

4. Mode Of Proposed Procurement (Tick whichever is applicable).

I. Govt. E-Marketplace Portal (GeM).

II. If not through GeM, then

Mention the reason \_\_\_\_\_ (Copy Attached).

Select the mode from below mentioned options:

- Upto ₹1.99 Lakh by Calling Quotations through registered/Speed Post.
- Through Rate Contract entered by the University.
- As Proprietary Item.
- Through e-tendering.

It is Certified that: this is not a Split Purchase.

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

Name of Lab/Section Incharge: Dr.

Name Of Indentor: Rajinder

Kanwal Jit Singh

Singh Smagh-TXE10112

Designation: A-8Designation: Sr Jt In

5. The above said item(s) are available/not available in the Central Store(not required in the case of books, medicines and repairing Work.)

Store Keeper

6. Availability Of Fund:

Budget Head: 2082004 - Machinery/Equipment &amp; Appliances

Project Name:

- a. Budgetary Provision, as Per allocation: ₹ 1,51,77,000.00  
b. Less: funds already utilized during year: ₹ 1,07,07,151.00  
c. Available fund: ₹ 44,69,849.00  
d. Less: Estimated amount of present proposal: ₹ 12,60,000.00  
e. Balance available: ₹ 32,09,849.00  
f. Add: Buyback amount: NA

Departmental Clerk

7. Following committee is recommended for purchase/procurement.

- I. Indentor: Rajinder Singh Smagh-TXE10112  
II. HOD/Incharge/or his Nominee J.S. Tiwana (chairman)  
III. One member from other department(not below the rank of lab Suptd) to be Nominated by Registrar/ Campus Director/Director of Constituent College (as the case may be) Dr. Baldev Kumar LS  
IV. Nominee Of Accounts(Nominated by Finance Officer) Sh. Rakesh  
V. Nominee Of Purchase(Nominated by PI(S&P)) Sh. Baldev

Note: Inspection Committee will consist of the members mentioned at Sr. No. I, II, III.

HOD/Section Incharge/PI

Recommended by Campus Director/Director of Constituent College.

Recommended for approval ✓

REGISTRAR

Approved/Not Approved ✓

VICE CHANCELLOR

UNIV/2024-25/AGR/00097



# Maharaja Ranjit Singh Punjab Technical University

Badal Road, Bathinda -151001

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਬਾਦਲ ਰੋਡ, ਬਠਿੰਡਾ

## SCHOOL OF AGRICULTURE SCIENCES & ENGINEERING

Ref. No.- MRSPTU/SASE/25/

Date-

Annexure:

### Technical Specification of Microscope

Details of Quantity to be procured - Total Budget Layout - Rs. 12.6 Lacs

Item No.-1 Binocular Microscope Quantity: - 50 (Fifty) @ Rs. 12,000/- = Rs. 6.0 Lacs

Item No.-2 Stereo Microscope Quantity: - 06 (Six) @ Rs. 30,000/- = Rs. 1.8 Lacs

Item No.-3 Microscope Quantity: - 12 (Six) @ Rs. 5,000/- = Rs. 0.60 Lacs

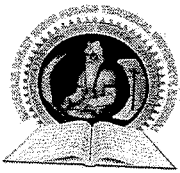
Item No.-4 Microscope with camera Quantity: - 3 (Three) @ Rs. 40,000/- = Rs. 1.20 Lacs

Item No.-5 Fluorescence Microscope Quantity: - 1 (one) @ Rs. 3.0 lacs/- = Rs. 3.0 Lacs

**Justification for Procurement:** Newly started department SASE has to develop the Plant breeding, Soil Sciences, Entomology and Plant Pathology labs for the B.Sc. (Honrs.) Agriculture Sciences and B.Tech Agricultural Engineering to meet the minimum requirements of the PSCAE and ICAR for the accreditation of the course. Microscopes are essential tools in B.Sc. Hons Agriculture program, enabling the detailed study of plant structures, microorganisms, and pathogens. A **compound microscope** is crucial for examining plant cells, bacteria, and fungi, aligning with ICAR and PSCAE guidelines. The **stereo microscope** offers three-dimensional views of seeds, insects, and plant tissues, aiding studies in entomology and seed technology. A **binocular microscope** ensures comfortable and precise observations, enhancing research in plant histology. Microscopes with cameras facilitate documentation, analysis, and digital learning, while **fluorescence microscopes** support advanced research in genetics and disease diagnostics. These instruments strengthen practical education, research, and accreditation compliance.

General Technical Specifications of the items:

Item No.	Item	Technical Specification
1.	Binocular microscope  For Entomology, Genetic and Plant Breeding, Soil Science	<b>Microscope Type:</b> Pathological binocular, non-hinged, with built-in light and intensity regulator. <b>Eye Piece Type:</b> Huygenian. <b>Binocular Eye Pieces (IS: 8275/1976):</b> Yes. <b>Eye Piece Magnification:</b> Set of two for binocular 10x. <b>Objective Type:</b> Achromatic. <b>Objective Magnification:</b> 100X. <b>Numerical Aperture of Objective:</b> 1.25. <b>Illumination Type:</b> LED. <b>Plano Concave Mirror Attachment:</b> Yes. <b>Stage Type:</b> Rectangular. <b>Stage Size:</b> 140mm x 140mm. <b>Coarse and Fine Movement of Stage:</b> Yes. <b>Co-axial Focusing:</b> Yes. <b>Micrometer Arrangement:</b> Yes.



# Maharaja Ranjit Singh Punjab Technical University 70

Badal Road, Bathinda -151001  
(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)  
ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਬਾਠਿੰਡਾ

## SCHOOL OF AGRICULTURE SCIENCES & ENGINEERING

Ref. No.- MRSPTU/SASE/25/

Date-

		<p><b>Accessories:</b> Extra eyepieces (set of two 15x), carrying case included.</p> <p><b>Warranty:</b> 2 years.</p>
2	<p><b>Stereo Microscope</b></p> <p>For Entomology, Pathology Plant</p>	<p><b>Microscope Type:</b> Stereo zoom microscope.</p> <p><b>Objective Lenses Type:</b> Achromatic.</p> <p><b>Objective Lenses Magnification:</b> 0.7X, 1.0X, 1.5X, 1.6X, 2.0X, 3.0X, 4.0X.</p> <p><b>Numerical Aperture of Objective:</b> 0.05.</p> <p><b>Zoom Ratio:</b> 7:1.</p> <p><b>Stage Type:</b> Standard stage with transmitted light bases, manual mechanical stage with transmitted light bases and incident light.</p> <p><b>Zoom/Magnification Operation:</b> Manual.</p> <p><b>Filters:</b> Daylight filter.</p> <p><b>Illumination Type:</b> LED, LED ring illumination.</p> <p><b>Accessories Included:</b> Cable, stage plate, carrying case.</p> <p><b>Warranty of Complete Microscope System:</b> one year</p>
3	<p><b>Microscope</b></p> <p>For Horticulture, Genetic and Plant Breeding</p>	<ul style="list-style-type: none"> <li>• <b>Type:</b> monocular</li> <li>• <b>Built-in Light:</b> Yes, with intensity regulator</li> <li>• <b>Eyepiece Type:</b> Huygenian</li> <li>• <b>Eyepiece Magnification:</b> 10X</li> <li>• <b>Objective Type:</b> Achromatic</li> <li>• <b>Objective Magnification:</b> 40X</li> <li>• <b>Numerical Aperture:</b> 1.25</li> </ul> <p><b>Warranty of Complete Microscope System:</b> 2 year</p>
4	<p><b>MICROSCOPE with camera</b></p> <p>For Plant Pathology</p>	<ul style="list-style-type: none"> <li>• <b>Magnification of Microscope Lens:</b> 100X</li> <li>• <b>Eyepieces:</b> 10X</li> <li>• <b>Observation Head:</b> Trinocular, inclined at 30°, 360° rotation</li> <li>• <b>Optical System:</b> High Contrast Infinity Corrected Optical System</li> <li>• <b>Mechanical Stage:</b> Double plate, size 190x140mm,</li> <li>• <b>Nosepiece:</b> Ball bearing type with proper click stops</li> </ul> <p><b>Camera Specifications:</b> Resolution: minimum 5 Megapixels <b>Magnification:</b> 2X</p>
5	<p><b>Fluorescence Microscope</b></p> <p>For Plant Technology Bio</p>	<p><b>Head:</b> Compensation-free Trinocular Head, inclined at 30°</p> <p><b>Interpupillary Distance:</b> 48-75 mm</p> <p><b>Eyepiece (Ocular)</b></p> <ul style="list-style-type: none"> <li>• High-point, Extra Wide Field Eyepiece EW10X/20mm</li> </ul> <p><b>Nosepiece</b></p> <ul style="list-style-type: none"> <li>• Inverse Quadruple Nosepiece</li> </ul> <p><b>Objectives</b></p> <p>Long working distance Infinite Plan Achromatic objectives: 4x/0.1, 10x/0.25, 20x/0.65, 40x/1.25</p> <p><b>Condenser</b></p>

10

12

13

25



# Maharaja Ranjit Singh Punjab Technical University

Badal Road, Bathinda -151001

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਬਾਦਲ ਰੋਡ, ਬਠਿੰਡਾ

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## SCHOOL OF AGRICULTURE SCIENCES & ENGINEERING

Ref. No.- MRSPTU/SASE/25/

Date-

		<ul style="list-style-type: none"><li>• N.A. 1.25 rack and pinion adjustable</li></ul> <b>Centering Telescope</b> <ul style="list-style-type: none"><li>• 30mm</li></ul> <b>Stage</b> <ul style="list-style-type: none"><li>• Double-layer mechanical stage</li><li>• Movement range: 75mm x 50mm</li></ul> <b>Focus System</b> <ul style="list-style-type: none"><li>• Coaxial coarse &amp; fine focusing adjustment</li><li>• Tension adjustable and up-stop</li></ul> <b>Light Source &amp; Filter</b> <ul style="list-style-type: none"><li>• Halogen bulb 6V/20W</li><li>• Filters: Blue and frosted glass</li></ul> <b>Reflected Fluorescence System</b> <ul style="list-style-type: none"><li>• Mercury Lamp House 100W/DC</li><li>• Power Supply: AC 220V</li><li>• Fluorescence Filter Systems</li></ul> <b>Fluorescent Attachment</b> <ul style="list-style-type: none"><li>• <b>Reflected Light Source:</b> Blue, Green Exciting Light Filter System and Ordinary Light System</li><li>• <b>Illumination:</b> 100W HBO Ultra High-voltage Spherical Mercury Lamp</li><li>• <b>Centering Telescope:</b> 30mm</li><li>• <b>Power Supply:</b> Protection Barrier to Resist Ultraviolet Light</li></ul> <b>Fluorescent Objectives</b> <ul style="list-style-type: none"><li>• 4x, 10x, 40x (S), 100x (S, Oil)</li></ul> <b>Immersion Oil</b> <ul style="list-style-type: none"><li>• Fluorescence-Free Oil</li></ul>
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## MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY, BATHINDA

Annexure-XV

72

### SANCTION REQUISITION FORM FOR PURCHASE AND PROCUREMENT (Beyond ₹1:00 Lakh)

DURING FINANCIAL YEAR 2024-25

(Please note that for any purchase more than Rs.1 Lac, it should be approved by  
Central Purchase Committee before proceeding further)

### Administrative & Financial Approval

Sanction NO: UNIV/2024-25/AGR/00096

Dated: Feb 11, 2025

1.Name OF Campus/Deptt./Section: Department of Agriculture

2.Name OF Item(s) to be Procured:

Sr. No	Name of items with detailed Generic Specifications(s)(if required use Separate Sheet)	Quantity to Procure	Estimated Unit Cost(Rs.) Inclusive Tax(if any)* an estimate from the firm should be inclosed.	Total Estimated cost of Procurement (Rs) inclusive tax(if any)	Indigenous/imported item(s)
1	Lab Stools	250	₹ 800.000	₹ 2,00,000.000	indigenous
2	Metal Shelve Rack Open Type/Slotted Angle	45	₹ 3,000.000	₹ 1,35,000.000	indigenous
3	MS Almirah	18	₹ 12,000.000	₹ 2,16,000.000	indigenous
4	Lab Table with Granite Top	35	₹ 12,000.000	₹ 4,20,000.000	indigenous
5	Conference Room Table U Shape	1	₹ 2,00,000.000	₹ 2,00,000.000	indigenous
6	Visitor Chair	20	₹ 3,000.000	₹ 60,000.000	indigenous
7	Revloving Chair	35	₹ 4,000.000	₹ 1,40,000.000	indigenous
8	Executive Table	5	₹ 7,000.000	₹ 35,000.000	indigenous
9	Computer -cum Office Table	15	₹ 6,200.000	₹ 93,000.000	indigenous
Total				₹ 14,99,000.000	

\* In Case of repair:Specify Clearly Whether item is Under Guarantee/Warranty(If any). Yes/No.

2(a)Please Select Whether the Item is: (i) Recurring ☐ (ii) Non-Recurring ☐

3.Justification Of Proposed procurement.

SASE MRSPTU Lab and Office Furniture

4.Mode Of Proposed Procurement (Tick whichever is applicable).

I. Govt. E-Marketplace Portal (GeM).

II. If not through GeM, then

Mention the reason \_\_\_\_\_ (Copy Attached).

Select the mode from below mentioned options:

- Upto ₹1.99 Lakh by Calling Quotations through registered/Speed Post.
- Through Rate Contract entered by the University.

*ghw*

c. As Proprietary Item.

d. Through e-tendering.

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It is Certified that: this is not a Split Purchase.

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

Name of Lab/Section Incharge: Dr.

Kanwal Jit Singh

Name Of Indentor: Rajinder

Singh Smagh-TXE10112

Designation: \_\_\_\_\_

Designation: S, T-

5. The above said item(s) are available/not available in the Central Store(not required in the case of books, medicines and repairing Work.)

Store Keeper

6. Availability Of Fund:

Budget Head: 2082002 - Furniture and Fixtures

Project Name:

- a. Budgetary Provision, as Per allocation: ₹ 15,00,000.00  
 b. Less: funds already utilized during year: ₹ 0.00  
 c. Available fund: ₹ 15,00,000.00  
 d. Less: Estimated amount of present proposal: ₹ 14,99,000.00  
 e. Balance available: ₹ 1,000.00  
 f. Add: Buyback amount: NA

Departmental Clerk

7. Following committee is recommended for purchase/procurement.

- I. Indentor: Rajinder Singh Smagh-TXE10112  
 II. HOD/Incharge/or his Nominee J. S. Tiwana (chairman)  
 III. One member from other department(not below the rank of lab Suptd) to be Nominated by Registrar/ Campus Director/Director of Constituent College (as the case may be) Dr. Rajinder Singh R. J. C.  
 IV. Nominee Of Accounts(Nominated by Finance Officer) Dr. Mandeep  
 V. Nominee Of Purchase(Nominated by PI(S&P)) Mr. G. K. L.

Note: Inspection Committee will consist of the members mentioned at Sr. No. I, II, III.

HOD/Section Incharge/PI

Recommended by Campus Director/Director of Constituent College.

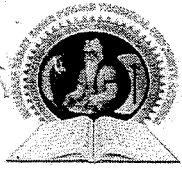
Recommended for approval ☒

REGISTRAR

Approved/Not Approved

VICE CHANCELLOR

UNIV/2024-25/AGR/00096



#### Justification for the procurement of Furniture for Laboratories, Office and Faculty

Newly started department SASE has to develop the Laboratories for the B.Sc. (Honrs.) Agriculture and B.Tech Agricultural Engineering to meet the minimum requirements of the PSCAE and ICAR for the accreditation of the course. As per ICAR the 13 News Laboratories are to be developed the furniture is required for Sitting of Students, Storage, display and demonstration of the equipment. The Furniture is also required for sitting of the Faculty and Staff. The Labs are situated in 2<sup>nd</sup> Floor, 3<sup>rd</sup> Floor C- Block B-Wing, LT Block Ground Floor, Animal Husbandry Unit near Main Gate and D-Block Labs.

#### Technical Specification of Furniture and requirement: Rs. 14.99 Lacs

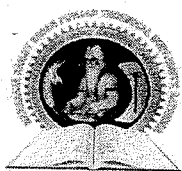
S.N o	Item	Technical Specification	Price	Qty	Amount
1	Lab Stools	With Four Legs and Cross Leg Members, Top Material – Wood (19mm) Size =300 mm x300mm, Leg Pipe Material - 25 mm Heavy Duty 1.02 mm, Under the Sitting seat MS Frame with 25 mm Pipe thick -1.02mm, Shoe Material- PVC Plastic, Finish – Enamel)	800	250	200000
2	Metal Shelving Rack Open Type/Slotted Angle Rack	<ul style="list-style-type: none"> <li>● Size: 5'(Hight) x4'(Width) x1.5'(Depth)</li> <li>● Type: Shelf height adjustable with simple nut and bolts Shelf nos. and type: 5 nos. Iron and removable</li> <li>● Shoes: Rubber shoes</li> <li>● Finishing: Enamel</li> </ul>	3000	45	135000
3	MS Sheet Almirah	<ul style="list-style-type: none"> <li>● Size: Approximately 6.5'(Hight) x 3'(Width) x 1.5'(Depth)</li> <li>● Make: GI/CRCA Steel, Body 20- 22 gauge, Door 20-22 gauge</li> <li>● Shelves: 4 nos. Load bearing capacity of each shelf: &gt; 60 kg</li> <li>● Doors: Fitted with height stiffeners</li> <li>● Lock: Lock with 2-3 keys</li> <li>● Finish Enamel</li> </ul>	12000	18	216000
4	Visitor Chair	<ul style="list-style-type: none"> <li>● Formed Cusioned Seat back Chair with Moulded steel Frame with 1.25 inch Steel Pipe</li> <li>● Chair Width 24 Inch and Seating Height 20 Inch</li> </ul>	3000	20	60000
5	Lab Tables with Granite Top	Size 6'(L)x2.5'(W)x2.5'(H) Body: GI/CRCA Steel frame with at least 30 mm square GI/CRCA 18 SWG pipe Make: Body 20-22 G GI/CRCA sheet, Cabinet doors 20-22 G GI/CRCA sheet Worktop: Black granite, Edges chamfered and smoothened, 20 ± 2 mm thickness. The bottom of the worktop should be polished and grooved throughout the length of the exposed edges to avoid spillages Cabinets: 01 (one) on right side Overhangs: The overhang on the storage cabinet should be 25 mm at the front side and all other sides should be at the same level with the cabinet. Cabinet size:	12000	35	420000

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# Maharaja Ranjit Singh Punjab Technical University

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Badal Road, Bathinda -151001

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਬਾਦਲ ਰੋਡ, ਬਠਿੰਡਾ

## SCHOOL OF AGRICULTURE SCIENCES & ENGINEERING

Ref. No.- MRSPTU/SASE/25/

Date-

		Approximately 2.5'(H)x2.5'(W)x2.5'(D) Cabinet/Drawers: One cabinet to be provided with 1 drawer (Height 6 in) and 2 shutters (with 1 adjustable shelf inside) Drawer channels: Should move on lockable telescopic channels Shutters: To be fixed with SS knuckle hinges with positive catcher capable to withstand load of 80 kgs Shoes: High quality shoes to be			
6	Conference Room Tables U Shape	Conference Table with each Table sitting for 3 persons. One side sitting 15 U End side table with 6 Seats Size L-6ft x W-2.5ft x H-2.5ft Wire Carrier/railing on each	200000	1	200000
7	Executive Table	<ul style="list-style-type: none"> <li>Size 1600 mm (Length) x 750 mm (Depth) x 740 (Hight)</li> <li>Top shall be of 25mm thickness made of PLT board with 2 mm Edge banding.</li> <li>Wenge and savannah Maple PLT board shall be used. The Understructure shall be in pre-laminated panels made with PLT boards.</li> <li>3 + 3 Drawer storage units with different combinations to support tops made with 18 mm PLT boards of different colours.</li> <li>Modesty and back panels made with 18 mm PLT boards. The pedestals / storages shall be fitted with necessary locks.</li> </ul>	7000	5	35000
8	Revolving Chair	<ul style="list-style-type: none"> <li>Chair with Alloy Wheel and Tochan Bar Mechanism</li> <li>Adjustable height upto 28 Inch, Width 25 Inch and back Hight of 30 inch</li> <li>With Arms</li> </ul> Colour of Chair Black	4000	35	140000
9	Computer Table cum office Table	<ul style="list-style-type: none"> <li>Size 1200 mm (Length) x 600 mm (Depth) x 740 (Hight)</li> <li>TABLE MATERIAL - The Table Panels are made from 18 ±0.5mm thick Pre-Laminated Exterior grade PLT (Grade I,Type-II )(IS 12823) with PVC edge banding on all sides.</li> <li>Drawer bottom panels are made up of 9mm thick (±1mm) Pre-laminated Particle Board.</li> <li>Locking has been provided on the top drawer only.</li> </ul>	6200	15	93000
				Total	1499000

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*[Signature]*

Head  
SASE MRSPTU



## MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY, BATHINDA

Annexure-XVI

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### SANCTION REQUISITION FORM FOR PURCHASE AND PROCUREMENT (Beyond ₹1:00 Lakh)

DURING FINANCIAL YEAR 2024-25

(Please note that for any purchase more than Rs.1 Lac, it should be approved by Central Purchase Committee before proceeding further)

### Administrative & Financial Approval

Sanction NO: UNIV/2024-25/AGR/00098

Dated: Feb 11, 2025

1.Name OF Campus/Deptt./Section: Department of Agriculture

2.Name OF Item(s) to be Procured:

Sr. No	Name of items with detailed Generic Specifications(s)(if required use Separate Sheet)	Quantity to Procure	Estimated Unit Cost(Rs.) Inclusive Tax(if any)* an estimate from the firm should be inclosed.	Total Estimated cost of Procurement (Rs) inclusive tax(if any)	Indigenous/imported item(s)
1	Spring Balance 10 kg	5	₹ 400.000	₹ 2,000.000	indigenous
2	Spring Balance 50 Kg	5	₹ 700.000	₹ 3,500.000	indigenous
3	Electronic weighing scale 5 Kg	4	₹ 6,000.000	₹ 24,000.000	indigenous
4	Electronic weighing balance 1000 gm	1	₹ 12,000.000	₹ 12,000.000*	indigenous
5	Electronic Plat form weighing scale 100 kg	2	₹ 10,000.000	₹ 20,000.000	indigenous
6	Electronic Balance 300 gm	4	₹ 15,000.000	₹ 60,000.000	indigenous
7	Electronic Weighing Scale 1-30 kg	2	₹ 7,000.000	₹ 14,000.000	indigenous
8	Electronic weighing scale 3 kg	2	₹ 10,000.000	₹ 20,000.000	indigenous
9	Top pan Balance 2kg	5	₹ 27,000.000	₹ 1,35,000.000	indigenous
10	Top pan Balance 1.2 KG	5	₹ 15,000.000	₹ 75,000.000	indigenous
11	Electronic Balance 200gm	2	₹ 85,000.000	₹ 1,70,000.000	indigenous
Total				₹ 5,35,500.000	

\* In Case of repair:Specify Clearly Whether item is Under Guarantee/Warranty(If any). Yes/No.

2(a)Please Select Whether the Item is: (i) Recurring ☐ (ii) Non-Recurring ☐

3.Justification Of Proposed procurement.

SASE MRSPTU Lab equipment

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4.Mode Of Proposed Procurement (Tick whichever is applicable).

I. Govt. E-Marketplace Portal (GeM).

II. If not through GeM, then


Mention the reason \_\_\_\_\_ (Copy Attached).

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Select the mode from below mentioned options:

- Upto ₹1.99 Lakh by Calling Quotations through registered/Speed Post.
- Through Rate Contract entered by the University.
- As Proprietary Item.
- Through e-tendering.

It is Certified that: this is not a Split Purchase.

Signature: 

Name of Lab/Section Incharge: Dr.

Wineet Chawla

Designation: Asst. Prof.

Signature: 

Name Of Indentor: Rajinder

Singh Smagh-TXE10112

Designation: Sr. Tech.

5. The above said item(s) are available/not available in the Central Store(not required in the case of books, medicines and repairing work.)

Store Keeper

6. Availability Of Fund:

Budget Head: 2082004 - Machinery/Equipment & Appliances

Project Name:

- Budgetary Provision, as Per allocation: ₹ 1,51,77,000.00
- Less: funds already utilized during year: ₹ 1,19,67,151.00
- Available fund: ₹ 32,09,849.00
- Less: Estimated amount of present proposal: ₹ 5,35,500.00
- Balance available: ₹ 26,74,349.00
- Add: Buyback amount: NA

Departmental Clerk

7. Following committee is recommended for purchase/procurement.

- Indentor: Rajinder Singh Smagh-TXE10112
- HOD/Incharge/or his Nominee J.S. Tiwari (chairman)
- One member from other department(not below the rank of lab Suptd) to be Nominated by Registrar/ Campus Director/Director of Constituent College (as the case may be) Smt. Rekha Gang
- Nominee Of Accounts(Nominated by Finance Officer) Dr. Kanjit Singh
- Nominee Of Purchase(Nominated by PI(S&P)) SL Balbir

Note: Inspection Committee will consist of the members mentioned at Sr. No. I, II, III.

HOD/Section Incharge/PI

Recommended by Campus Director/Director of Constituent College.

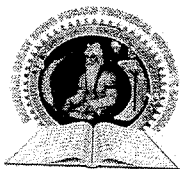
Recommended for approval 

REGISTRAR

Approved/Not Approved

VICE CHANCELLOR

UNIV/2024-25/AGR/00098



# Maharaja Ranjit Singh Punjab Technical University

Badal Road, Bathinda -151001

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਬਾਠਿੰਡਾ, ਬਠਿੰਡਾ

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## SCHOOL OF AGRICULTURE SCIENCES & ENGINEERING

Ref. No.- MRSPTU/SASE/25/

Date-

Annexure:

### Technical Specification of Weighing Balance

#### Details of Quantity to be procured - Total Budget Layout - Rs. 5.355 Lacs

- Item-1 Spring Balance (10 Kg) – Quantity: 5 @ Rs. 400/- = Rs. 2,000/-  
 Item-2 Spring Balance (50 Kg) – Quantity: 5 @ Rs. 700/- = Rs. 3,500/-  
 Item-3 Electronic Weighing Scale (5 Kg) – Quantity: 4 @ Rs. 6,000/- = Rs. 24,000/-  
 Item-4 Electronic Weighing Balance (1000 gm) – Quantity: 1 @ Rs. 12,000/- = Rs. 12,000/-  
 Item-5 Electronic Platform Weighing Scale (100 Kg) – Quantity: 2 @ Rs. 10,000/- = Rs. 20,000/-  
 Item-6 Electronic Balance (300 gm) – Quantity: 4 @ Rs. 15,000/- = Rs. 60,000/-  
 Item-7 Electronic Weighing Scale (1-30 Kg) – Quantity: 2 @ Rs. 7,000/- = Rs. 14,000/-  
 Item-8 Electronic Weighing Scale (3 Kg) – Quantity: 2 @ Rs. 10,000/- = Rs. 20,000/-  
 Item-9 Top Pan Balance (2 Kg) – Quantity: 5 @ Rs. 27,000/- = Rs. 1,35,000/-  
 Item-10 Top Pan Balance (1.2 Kg) – Quantity: 5 @ Rs. 15,000/- = Rs. 75,000/-  
 Item-11 Electronic Balance (200 gm) – Quantity: 2 @ Rs. 85,000/- = Rs. 1,70,000/-

**Justification for Procurement:** Newly started department SASE has to develop the Horticulture, Agronomy, Animal science, Plant breeding, Soil Sciences, Entomology and Plant Pathology labs for the B.Sc. (Honrs.) Agriculture Sciences and B.Tech Agricultural Engineering to meet the minimum requirements of the PSCAE and ICAR for the accreditation of the course. Weighing instruments are essential in agricultural laboratories for precise measurement of seeds, fertilizers, and other materials. Spring balances with 10 Kg and 50 Kg capacity provide quick manual weight estimation for agricultural produce. Electronic weighing scales with capacities of 5 Kg, 30 Kg, and 100 Kg ensure accurate measurements for seed testing, soil analysis, and fertilizer application. High-precision electronic balances (1000 gm, 300 gm, and 200 gm with LC up to 0.1 mg) are vital for research in plant nutrition, pesticide formulation, and chemical analysis. Top pan balances (1.2 Kg and 2 Kg) with fine least count enable precise weighing of small samples in experiments. These instruments support ICAR and PSCAE standards, improving research accuracy, quality control, and analytical studies in agriculture.

General Technical Specifications of the items:

Item No.	Item	Technical Specification	Lab
1	Spring Balance (10 Kg)	Spring balance with digital display	Agronomy and Agro forestry
2	Spring Balance (50 Kg)	Spring balance with digital display	Agronomy and Agro forestry
3	Electronic Weighing Scale (5 Kg)	Capacity: 5 Kg, Least Count: 1 g, SS Pan Size: 220mm x 270mm, Inbuilt battery backup, ABS Housing	Dairy, Plant Pathology, Entomology and Plant Breeding
4	Electronic Weighing Balance (1000 gm)	Capacity: 1000 g, Least Count: 10 mg, SS Pan Size: 110 mm Dia, Inbuilt battery backup	Plant Pathology

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# Maharaja Ranjit Singh Punjab Technical University

Badal Road, Bathinda -151001

(Established by Govt. of Punjab vide Punjab Act No. 5 of 2015)

ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਬਾਦਲ ਰੋਡ, ਬਠਿੰਡਾ

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## SCHOOL OF AGRICULTURE SCIENCES & ENGINEERING

Ref. No.- MRSPTU/SASE/25/

Date-

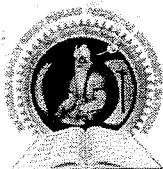
5	Electronic Platform Weighing Scale (100 Kg)	Capacity: 100 Kg, Least Count: 10 g, SS Pan Size: 500mm x 400mm, Inbuilt battery backup	Agronomy and Horticulture
6	Electronic Balance (300 gm)	Capacity: 300 g, Least Count: 1 mg, SS Pan Size: 80 mm Dia, Inbuilt battery backup, Wind shield	Animal Science, Horticulture, Soil Sciences
7	Electronic Weighing Scale (1-30 Kg)	Capacity: 30 Kg, Least Count: 5 g, SS Pan Size: 250mm x 350mm, Inbuilt battery backup, ABS Housing	Plant Breeding, Entomology
8	Electronic Weighing Scale (3 Kg)	Capacity: 3 Kg, Least Count: 100 mg, SS Pan Size: 220mm x 280mm, Inbuilt battery backup, ABS Housing	Soil Sciences, Entomology and Micro biology
9	Top Pan Balance (2 Kg)	Capacity: 2000 g, Least Count: 10 mg, SS Pan Size: 130 mm Dia, Inbuilt battery backup	Agronomy and Agro forestry
10	Top Pan Balance (1.2 Kg)	Capacity: 1200 g, Least Count: 10 mg, SS Pan Size: 110 mm Dia, Inbuilt battery backup	Agronomy and Agro forestry
11	Electronic Balance (200 gm)	Capacity: 220 g, Least Count: 0.1 mg, SS Pan Size: 80 mm Dia, Internal Motorized Calibration	Entomology and Plant Bio Technology

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## MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY, BATHINDA

### SANCTION REQUISITION FORM FOR PURCHASE AND PROCUREMENT (Beyond ₹1:00 Lakh)

**DURING FINANCIAL YEAR 2024-25**

(Please note that for any purchase more than Rs.1 Lac, it should be approved by  
Central Purchase Committee before proceeding further)

### Administrative & Financial Approval

**Sanction NO:** UNIV/2024-25/AGR/00088

**Dated:** Feb 11, 2025

**1.Name OF Campus/Deptt./Section:** Department of Agriculture

**2.Name OF Item(s) to be Procured:**

Sr. No	Name of items with detailed Generic Specifications(s)(if required use Separate Sheet)	Quantity to Procure	Estimated Unit Cost(Rs.) Inclusive Tax(if any)* an estimate from the firm should be inclosed.	Total Estimated cost of Procurement (Rs) inclusive tax(if any)	Indigenous/imported item(s)
1	Tractor	1	₹ 15,00,000.000	₹ 15,00,000.000	indigenous
<b>Total</b>				<b>₹ 15,00,000.000</b>	

\* In Case of repair:Specify Clearly Whether item is Under Guarantee/Warranty(If any). Yes/No.

**2(a)Please Select Whether the Item is:** (i) Recurring ☐ (ii) Non-Recurring ☐

**3.Justification Of Proposed procurement.**

SASE MRSPTU Lab and Field Operation

and Field work

for Agriculture Engineer

*[Signature]*

**4.Mode Of Proposed Procurement (Tick whichever is applicable).**

I. Govt. E-Marketplace Portal (GeM).

II. If not through GeM, then

Mention the reason \_\_\_\_\_ (Copy Attached).

**Select the mode from below mentioned options:**

- a. Upto ₹1.99 Lakh by Calling Quotations through registered/Speed Post.
- b. Through Rate Contract entered by the University.
- c. As Proprietary Item.
- d. Through e-tendering.

**It is Certified that: this is not a Split Purchase.**

**Signature:** \_\_\_\_\_

**Name of Lab/Section Incharge: Dr.**

Kanwal Jit Singh

**Signature:** \_\_\_\_\_

**Name Of Indentor:**

Rajinder Singh Smagh-

TXE10112

Designation:

Assistant Professor

Designation:

Sr. Teacher

5. The above said item(s) are available/not available in the Central Store(not required in the case of books, medicines and repairing Work.)

Store Keeper

6. Availability Of Fund:

Budget Head: 2082004 - Machinery/Equipment  
& Appliances

Project Name:

- Budgetary Provision, as Per allocation: ₹ 1,51,77,000.00
- Less: funds already utilized during year: ₹ 67,77,151.00
- Available fund: ₹ 83,99,849.00
- Less: Estimated amount of present proposal: ₹ 15,00,000.00
- Balance available: ₹ 68,99,849.00
- Add: Buyback amount: NA

Departmental Clerk

7. Following committee is recommended for purchase/procurement.

- Indentor: Rajinder Singh Smagh-TXE10112
- HOD/Incharge/or his Nominee J. S. Tiwari (chairman)
- One member from other department(not below the rank of lab Suptd) to be Nominated by Registrar/ Campus Director/Director of Constituent College (as the case may be) Dr. S. P. Singh
- Nominee Of Accounts(Nominated by Finance Officer) Sh. Sukhade Singh
- Nominee Of Purchase(Nominated by PI(S&P)) Mrs. Paragita

Note: Inspection Committee will consist of the members mentioned at Sr. No. I, II, III.

HOD/Section Incharge/PI

Recommended by Campus Director/Director of Constituent College.

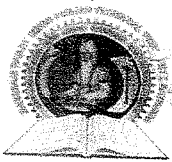
Recommended for approval

REGISTRAR

Approved/Not Approved

VICE CHANCELLOR

UNIV/2024-25/AGR/00088



**SCHOOL OF AGRICULTURE SCIENCES & ENGINEERING**

Ref. No.- MRSPTU/SASE/25/

Date-

Annexure- **F**

**Details of Quantity to be procured - Total Budget Layout - Rs. 15.00 Lacs**

**Item No.-1. Farming Tractor Quantity: - 1 (one) = Rs. 15.00 Lacs**

**Justification for Procurement:** Newly started department SASE has to develop the Horticulture lab for the B.Sc. (Hons.) Agriculture Sciences and B.Tech Agricultural Engineering to meet the minimum requirements of the PSCAE and ICAR for the accreditation of the course. The tractor will be used for demonstration and ploughing the farm and development of University land. As per ICAR and PSCAE norms, it aids in practical, and precision agriculture. Its integration ensures hands-on training and skill development for B.Sc. Hons Agriculture students.

General Technical Specifications of the items:

**Tractor – 60 to 65 HP - Rs. Rs. 15,00,000**

Technical Specifications

1. Vehicle Emission Compliance Bharat Stage TREM-IV
2. Engine Power (HP) 63 – 65 HP
3. Power Take-Off (PTO) Type Independent
4. PTO Power (HP) 53 to 55 HP
5. Engine Aspiration System Turbo Charged Intercooled
6. Engine Cooling Water cooled
7. Fuel Injection CRDI
8. Tractor Transmission System Synchromesh
9. Type of Wheel drive Four Wheel Drive
10. Drive Axle All
11. Type of Steering Power Operated
12. Tractor Brake Hydraulic Actuated Brakes
13. Clutch Operation Dual
14. GPS based monitoring for running and working
15. Warranty Time (Month) 60 month
16. Actual Basis after delivery Accessories, Registration, Insurance – Rs. 50,000