

**Directorate of Flying Training
(Cabinet Secretariat Department)
GOVERNMENT OF BIHAR**

**Invites
Global Tender
For
Purchase of Flight Simulator**

Last Date for Submission of Tender

25.04.2025 at 05:00 PM

Opening of Technical & Financial bid

29.04.2025 at 03:00 PM

Dated: _____

Place: Patna, Bihar





Government of Bihar
Cabinet Secretariat Department
(Directorate of Flying Training)
Patna Airport, Patna – 800014.

TEL :- 0612-2225659, 2224423
Fax 0612 2224614
e-mail-cadbihaar@bihar.gov.

Letter. No: - उ०प्र०नि० (वि०वि०)-०५-०१ / २०२५-

Patna, Dated -

GLOBAL TENDER

Sealed tenders are invited from Original Equipment Manufacturers (OEM) or their authorized distributors for purchase of 01 (One) new flight training device (FTD FAA level 5 minimum or DGCA level 6 or 7 FTD or equivalent) compatible with the Single Engine Aircraft, for training purposes by the Government of Bihar.

➤ **Flight Simulator Minima: (but not limited to)**

The interested applicant should offer the simulator which must be meeting with following requirements: -

1. The flight training device (FTD) must be having full and actual cockpit in shell type configuration with fixed base for below mentioned aircraft model:

Single Engine Aircraft
Cessna 172 R

2. **Visual System:**

- High-definition visual display system with at least unrestricted 180-degree x 50-Degree field of view with minimum 30 frame per second motion display.
- Night, dusk and dawn visual capabilities, along with weather conditions, like Cross wind, Clouds, Visibility simulations.
- Real view visual system with animation and scenery database/ airport database.

3. **Instrumentation and Avionics:**

- True scale and fully functional replicas of the aircraft instruments and avionics as represented in glass cockpit of Cessna 172 R Aircraft.
- Garmin G1000 NXi or equivalent avionics suite for Cessna 172 (preferably original G1000NXi with annual update subscription).
- Frequent NAV AID update based on AIRAC (Aeronautical Information Regulation and Control) Cycle.
- Fully Functional auto pilot with control mounted trim, AP Disc and CWS (Control Wheel Steering) system.
- Visual and audio indication for Annunciation.
- Capability to simulate partial panel exercises.

4. **Hardware and Software:**

- High-fidelity controls with real feel control loading yoke, rudder and feedback systems.
- Reliable and user-friendly software with regular updates having internet connectivity and online software resolution characteristics by OEM.
- Vendors should mention the type of operating system used in flight training device (FTD).

- Dual yoke and rudder pedal for pilot and co-pilot (MCC environment) with separate instructor station.
 - Realistic sound system for accurate cockpit and environmental sounds.
5. **Upgradability:** Future-proof design and software allowing for upgrades and expansions as technology advances or training needs changes.
 6. **Instructor station:** Separate Instructor station with minimum 21" screen for playback and displaying PFD, MFD, lateral and vertical trajectories, 3D aircraft, flight controls and cockpit video on dedicated screen.
 7. **Data Recording and Analysis:** Capability to record and analyze flight sessions with graphical and pictorial 6 view angle representation for debriefing and assessment purposes.
 8. **Environmental Controls:** Efficient cooling and power systems to support prolonged use without performance degradation.
 9. **Room Size:** Preferably should fit in a room of L x B x H = 260" x 254" x 100" with a door entry size of 42" x 78". Room and Door size is Flexible if required, but the vendor should mention the room and entry door size requirement.
 10. **Power back up** – Capability to run in case of electrical failure for a minimum period of minimum 10 mins.
 11. Key board and mouse, pause session switch, trainee dedicated sim log entry facility etc.
 12. Vendor should mention the lead time till complete installation from the date of final purchase order.

➤ **Terms & Conditions: -**

1. **Maintenance and Repairing Base:** The flight simulator company must have its own or an authorized maintenance service agreement with any agency in India to ensure minimal downtime for maintenance and repairs.
2. **Warranty and Maintenance:** The bidder must provide a warranty of minimum **TWO (02)** years and cost should include AMC for 5 years from the date of installation including the supply of free spare parts (if required), for a period of two years from the date of installation.
3. The vendor should mention the current AMC charges per annum and the details of company / individual who shall be carrying out the AMC and the terms and conditions of AMC.
4. The vendor should mention the maximum expected downtime in case of any trouble / expected days for resolution in case of any hardware and software issue.
5. **Training for Instructors:** The bidder must provide operation training for two of our Instructors / Pilots at no additional cost.
6. **Training for Engineers and Technicians:** For day-to-day maintenance, the bidder must train our Engineers and Technicians at no additional cost.
7. **Installation:** Successful Installation charges should be borne by the bidder.
8. **Approval:** The simulator should comply with DGCA CAR Section 7, Series D, Part VI. A statement to be submitted for its compliance.
9. The bidder should mention the maintenance cost per hour assuming a consumption of 400 hours per year (if any, other than electricity charges).
10. The bidder may mention the policy for upgrade or exchange or buy back in case it is required for upgradation to 3-axis or 6-axis (if applicable).
11. The bidder shall provide explanatory details with attachments as given in **Annexure-I**.
12. The bidder shall provide a representation in form of color image from different angles to evaluate the simulator suitability.
13. The bidder should mention their customer in India using their simulator and a video representation may be attached (in the form of web-link)

14. **Two Bid System:** Bidders shall submit their offer in two separate sealed envelopes labeled as Technical Bid and Financial Bid. These two bids shall be kept in another big envelope which should be sealed and subscribed, "**Tender for Supply and Installation of flight training device (FTD)**".

• **Technical Bid :-** It should contain the following :-

- (i). Self-Certificate that the company has not been black listed by the Public sector undertaking/ Govt. organization/ DGCA.
- (ii). Security money of Rs 50,000/- as Bank Draft by the bidders Payable to Bihar Flying Inst. C.A. Department, Cabinet Secretariat Department, Patna.
- (iii). Work experience certificate of at least 05 years in the maintenance and operation of Flight Simulator.
- (iv). Having annual turnover of Rs. 15 crore or more during the last financial year in the books of account. A Specific certificate about the Turnover, duly signed by the same chartered Accountant to be attached.
- (v). Lead time for supply & installation should be mentioned.
- (vi). Should cover all the technical requirements placed at **Annexure-I**.
- (vii). It should Contain Annual Maintenance Contract (AMC) Term & Conditions.
- (viii). Copy of tender acceptance letter on **Annexure II**.
- (ix). Declaration for local content, Country of Origin of goods on **Annexure III**.

• **Financial Bid :-** It should contain the following :-

- (i). It should contain only one rate, firm and fixed including all hardware, software subscription, transportation, training, custom clearance, import duty, installation, taxes and 5-year AMC etc. charges.
 - (ii). The Financial Bid shall clearly specify delivery schedule and payment terms.
 - (iii). The Financial Bid shall specify Warranty details.
 - (iv). The Financial Bid shall specify Validity of quotes for a period of 120 days from last date fixed for submission of tender. Financial bid will be opened only of those tenderers whose technical bids are found in order.
15. The successful Bidder shall furnish Performance Guarantee after getting Letter of Intent, in the form of Bank Draft or Bank guarantee issued from the Nationalized Bank or Scheduled Bank in India for a sum equivalent to 5% of the total tender value for a period of 01 year in favor of Bihar Flying Inst. C.A. Department, Cabinet Secretariat Department, Patna.
16. Company shall be liable for custom clearance, insurance etc. No additional charges shall be payable by the state Government.
17. Security money of Unsuccessful bidders will be refunded immediately after final selection.
18. **The Bid shall be evaluated on Lowest rate basis (L1) meeting maximum criteria.**

19. The tender must reach to Director, Directorate of Flying Training, Patna Airport, Patna on or before **25.04.2025 at 05:00 PM.** by registered post/speed post/courier or by hand only.
20. The Technical Bid and Financial Bid will be opened on **29.04.2025 at 03:00 PM** before the committee headed by Additional Chief Secretary, Cabinet Secretariat Department, Bihar, Patna at his official Chamber or by an officer so authorized by him before bidder/authorized representatives.
21. The Successful bidder will have to sign an agreement as per rules, which shall be shared to successful bidder only, in case of non-agreement by any of the party, the next bidder shall be asked to provide their consent. Any violation of agreement will be deemed to be a breach of contract and accordingly legal action will be taken
22. For any technical query feel free to contact **Chief Flight Instructor,** Directorate of Flying Training, Govt. of Bihar (Mobile-9835042222) or on e-mail i.e. **capt.paraggoyal@gmail.com**.
23. The Additional Chief Secretary, Cabinet Secretariat Department, Govt. of Bihar reserves the right to reject any or all the bids offer without assigning any reasons thereof.
24. In case of any dispute, the place of settlement will be within the Judicature of Patna High Court at Patna.
25. The detailed information of published Tender notice can also be downloaded from the website **<http://state.bihar.gov.in/csd>**

Director,
Directorate of Flying Training

Si. No.	Specification	Compliance status (Y/N)	Details of compliance and appendix (if any)
1	FAA level 5 or DGCA FTD level 6 or 7 or equivalent status and details		
2	C172 Glass cockpit		
3	Fixed base shell type actual cockpit representation of		
	Cessna 172 R		
4	Minimum unrestricted Field of view 180 X 50 degree		
5	Motion display minimum 30 frame per second		
6	Simulation of Night, dusk, dawn weather condition like visibility, winds, clouds		
7	Real view visual and animation scenery and airport data base		
8	Auto pilot capabilities		
9	Annunciation functioning		
10	Partial panel simulation capabilities		
11	High fidelity, real feel controls and feedback system		
12	Online resolution, update and troubleshooting capability		
13	Type of operating system used		
14	MCC environment capability		
15	Separate Instructor station and its details		
16	Realistic sound system capability		
17	Upgrade and expansion capability details		
18	Data recording capability details		
19	Cooling system and temperature requirement to be maintained during operation		
20	Room and entry door size requirement		
21	Power back up duration and its upgradation facility		
22	Key board and mouse for instructor station		
23	Lead time requirement from the date of confirm purchase order		
24	Details of maintenance agency / personnel in India to cater for any service requirement		
25	Details of warranty period		
26	Annual Maintenance Contract (AMC) Term & Conditions.		
27	Quotation includes 5 years AMC charges		
28	Current AMC charges		
29	Expected downtime for resolution in case of any hardware or software issue		
30	Training facility details for two instructors / pilots		

31	Training facility details for two engineer and technician		
32	Expected maintenance cost per annum (400 hours operation per year other than electricity charges, if any)		
33	Upgrade / exchange / buy back policy (if applicable)		
34	Additional specification (for due weightage in consideration)		

TENDER ACCEPTANCE LETTER

(To be given on Company Letter Head)

Annexure -II

To,

The Director
Directorate of Flying Training,
JPNI Airport, Patna- 800014

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: _____

Name of Tender / Work: -

Dear Sir,

1. I / We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely: _____ as per

your advertisement, given in the above-mentioned website(s).

2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. _____ to _____ (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.

3. I / We hereby unconditionally accept the tender conditions of above-mentioned tender document(s) / corrigendum(s) in its totality / entirety.

4. I / We do hereby declare that our Firm has not been blacklisted/ debarred/ terminated/ banned by any Govt. Department/Public sector undertaking.

5. I / We certify that all information furnished by our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organisation shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder, with Official
Seal)

Declaration for Local Content

(To be given on Company Letter Head - For tender value below Rs.10 Crores)

Date:

To,

The Director
Directorate of Flying Training,
JPNI Airport, Patna- 800014

Sub: Declaration of Local content

Tender Reference No: _____

Name of Tender / Work: - _____

1. Country of Origin of Goods being offered: _____
2. We hereby declare that items offered has _____% local content.
3. Details of location(s) at which the local value addition is made: _____

"Local Content" means the amount of value added in India which shall, be the total value of the item being offered minus the value of the imported content in the item (including all customs duties) as a proportion of the total value, in percent.

*"*False declaration will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law."*

Yours Faithfully,

(Signature of the Bidder, with Official
Seal)