



# राष्ट्रीय फैशन एवं टेक्नोलॉजी संस्थान ,मुंबई

(निफ्ट अधिनियम, 2006 के तहत एक सांविधिक संस्थान)

निफ्ट मुंबई में वेअरेबल आय ट्रैकर, स्टैटिक आय ट्रैकर मशीन, ई. ई. जी. मशीन, गॅलवानेक स्किन रिस्पॉस सेंसर्स और इन मशीनों के एकीकरण सॉफ्टवेअर की आपूर्ति ,संस्थापन ,प्रशिक्षण एवं रखरखाव हेतु खुली निविदा दस्तावेज़

**E- Tender Document for supply, installation, commissioning, training and maintenance of Wearable Eye Tracker, Static Eye Tracker Machine, EEG Machine, Galvanec Skin Response Sensors and its allied integration software System for NIFT Mumbai**

निविदा संख्या : 25/NIFT/MUM/PO/2017-18

पावती नं .एवं जारी करने कि तिथि : \_\_\_\_\_

के पक्ष में जारी किया गया : \_\_\_\_\_

निविदा प्रक्रिया के लिए निर्धारित की गयी समय सारणी:

निविदा सूचना प्रकाशित करने की तिथि	19.02.2018
विधिवत भरी हुई निविदाएँ प्राप्त करने की अंतिम तिथि	12.03.2018 को 2:30 बजे अपरान्ह तक
तकनीकी संविदाएं खोलने की तिथि एवं समय	12.03.2018 को 3.00 बजे अपरान्ह

**नोट:** इस निविदा दस्तावेज़ में 21 पृष्ठ शामिल हैं। सभी निविदाकारों से अनुरोध है कि वे निविदा दस्तावेज़ के सभी पन्नों पर हस्ताक्षर करें तथा तकनीकी एवं वित्तीय संविदाओं को विधिवत भर कर एक कवर में अच्छी तरह मुहरबंद करके उस पर "निफ्ट मुंबई में आय ट्रैकर, स्टैटिक आय ट्रैकर मशीन, ई. ई. जी. मशीन, गॅलवानेक स्किन रिस्पॉस सेंसर्स और इन मशीनों के एकीकरण सॉफ्टवेअर की आपूर्ति ,संस्थापन प्रशिक्षण , एंवरखरखाव" अथवा "Supply, Installation ,Commissioning, Training & Maintenance of Wearable Eye Tracker, Static Eye Tracker Machine, EEG Machine, Galvanec Skin Response Sensors and its allied integration software System at NIFT Mumbai" लिख कर ही जमा करें ।

निफ्ट कैम्पस ,प्लॉट नं.-15, सेक्टर- 4, खारघर ,नवी मुंबई -410210

दूरभाष+ :91-22-2774 7000, 2774 7011+ :फैक्स ,91-22-2774 5386

Seal & Signature of the Tenderer: \_\_\_\_\_

वेबसाइट: [www.nift.ac.in/mumbai](http://www.nift.ac.in/mumbai)**PREAMBLE / INTRODUCTION**

National Institute of Fashion Technology (NIFT) is a premier educational Institution set up under an Act of Parliament and functioning under the aegis of the Ministry of Textiles, Govt. of India. NIFT, Mumbai centre was established in the year 1995 with undergraduate and post graduate programmes.

**TENDER NOTICE**

NIFT invites e - Tender under two bid systems for **Supply, Installation, Commissioning, Training and Maintenance of Wearable Eye Tracker, Static Eye Tracker Machine, EEG Machine, Galvanec Skin Response Sensors and its allied integration software Systemat NIFT Mumbai**” as per the quantity and specification mentioned in Tender document. The tender bids duly-filled in all respects enclosing necessary documents may be addressed to the Director, National Institute of Fashion Technology, NIFT Campus, Plot No. – 15, Sector – 4, Kharghar, Navi Mumbai – 410210, so as to reach on or before 2.30 pm, 12.03.2018 or the tender may be dropped in Tender Box placed at the Reception Area of NIFT, Mumbai Centre.

**Submission of Bids**

- (a) The interested firms should apply online and submit their tender and the bids along with scanned copies of all the relevant certificates, documents, etc. in support of their technical & price bids – all duly signed – on the <https://nifttenders.eproc.in> from 19.02.2018 to 12.03.2018 up to 2.30 P.M. Tender documents is also available for viewing on the “tenders” link of the NIFT website i.e. <https://nifttenders.eproc.in>
- (b) Applications to this tender will be accepted only through the online mode through the website <https://nifttenders.eproc.in>. No other mode of application will be considered & application will not be accepted.
- (c) For applying online, the Firm should get itself registered at <https://nifttenders.eproc.in> by paying
  - Registration Charges of **Rs. 2,000/- + 360/-** (inclusive of GST) = 2,360/- (Two Thousand Three Hundred and sixty Only - non-refundable).
  - Bid Processing Fee charges of **Rs. 3,280/- + 590/- (inclusive of GST) = 3,870/-** (Three Thousand Eight Hundred Seventy Only) non -refundable through online payments only.

The Firm should ensure that it complies with the requirements as per works before applying for tender. Also, the interested Firms should submit a hard copy of the application submitted online with all relevant supporting documents by 12.03.2018 up to 2.30 P.M. Non-submission of hardcopy as directed will lead to rejection of the tender application.

- (d) The sealed hard copy of the tender shall be submitted in one big envelope superscripting “Supply, Installation, Commissioning, Training & Maintenance of Wearable Eye Tracker, Static Eye Tracker Machine, EEG Machine, Galvanec Skin Response Sensors and its allied integration software Systemat NIFT Mumbai” containing two separately sealed small envelopes, one for "Technical Bid " and another for "Financial Bid " superscripting as such and addressed to The Director, National Institute Of Fashion Technology, NIFT Campus, Mumbai. The hard copies of sealed tenders documents must be dropped in the tender box kept at Reception Area NIFT Mumbai, on or before 12.03.2018 up to 2.30 PM.

Seal &amp; Signature of the Tenderer: \_\_\_\_\_

- (e) The technical bid envelope must contain the technical bid in prescribed Performa as per Annexure - V along with a demand draft of Rs. 1,000/-- (Rupees One Thousand only) towards cost of tender (non-refundable) and Earnest Money Deposit (refundable but non-interest bearing) of Rs. 1,00,000/- (Rupees One Lakh Only) favoring National Institute Of Fashion Technology and payable at Mumbai with all relevant documents in support of eligibility and experience criteria. The financial bid envelope must contain only the financial bid. The financial bid shall include all the charges including all taxes etc to complete the work in all respect. NIFT will not accept any claim other than mentioned in financial bid.
- (f) The technical bid will be opened at NIFT, Mumbai, in the office of Director on 12.03.2018 up to 3.00 P.M. in the presence of the bidders/ their authorized representatives who wish to be present. The Financial bid will be opened on the date which will be communicated to only those bidders who are found to be technically qualified after evaluation of technical bids.
- (g) The interested firms are advised to read carefully the entire tender document before submitting their tender and the tender documents not received online in prescribed format and/or are found incomplete in any respect shall be summarily rejected.
- (h) Any further clarifications can be sought from the NIFT office on Telephone No. 022-27747103, NATIONAL INSTITUTE OF FASHION TECHNOLOGY, NIFT Campus, Mumbai- 410210. (for specification)  
And

**For online procedure:**

**For More enquiries / For Helpdesk officers :- Mr.Sandeep Bhandari ,  
E-mail :- [sandeep.bhandari@c1india.com](mailto:sandeep.bhandari@c1india.com)  
Phone No.:- 0124-4302033 &36**

Cost of Tender form : Rs 1,000/- (Non-refundable)

Earnest Money Deposit : Rs 1,00,000/-

Commencing date of Tender :19.02.2018

Last date of Submission: 12.03.2018 up to 2.30 PM

Date of opening of Tender (Technical Bid): 12.03.2018at 3.00 PM

Estimated Amount: 41.00 Lakhs

Seal & Signature of the Tenderer: \_\_\_\_\_

## 1. **TECHNICAL QUALIFYING CRITERIA**

The Tenderer must fulfill the following eligibility condition.

1. The Firm should have all the necessary registrations of the Govt.:
  - a) Firm / Company Registration
  - b) PAN Number
  - c) GST Registration
2. The Technical bid should contain Earnest Money Deposit of an amount of Rs. 1,00,000/- (Rupees One Lakh only). The EMD should be submitted in the form of demand draft in favor of NIFT Mumbai.
3. A separate Demand Draft/ Pay Order of Rs. 1,000/- (Non – Refundable) drawn in favour of NIFT Mumbai payable at Mumbai against Tender document fee shall be attached with technical bid in case the tender document is downloaded from the website.
4. Tenderer's sales turnover should not be less than Rs. 50.00 Lacs (Rupees Fifty Lacs) per annum (Each in the past two years). The tenderer should submit copies of supporting records to prove the condition.
5. The tenderer should not have been blacklisted by any State Government/Central Government and/or any Central PSU. Declaration to this effect should be furnished in the Technical Bid. (Annexure-II)
6. As per GFR Rule No.173 Late bids i.e. bids received after the specified date and time of receipt, should not be considered.
7. The tenderer must have supplied similar machines for setting up of innovation research labs at various reputed govt. / semi – govt. / reputed private organizations. The tenderer has to furnish minimum two references of Organizations /Institutes of repute wherein the **Wearable Eye Tracker, Static Eye Tracker Machine, EEG Machine, Galvanec Skin Response Sensors and its allied integration software System** are successfully implemented by them. Such references should complete in all respect with email and contact details.
8. If the tenderer is OEM (Original Equipment Manufacturer), they must submit the OEM certificate and must be in the same business from the past 5 years.
9. If Authorized reseller is bidding, then the following additional criteria must be met:
  - a. The Authorized Reseller should be a company registered under the companies act. 1956.
  - b. The authorized reseller should submit the authorization letter from the OEM as a proof.
10. Installation, Training & Maintenance should be provided at no additional cost.
11. Should have a dedicated support team and should resolve any issues within 2 working days. Support can be provided through phone / email / Skype / any remote supporting tools. For Critical issues the

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vendor should send the support engineers to onsite for resolving the issue.

12. Incomplete and conditional bids submitted by the vendors will be summarily rejected.
13. NIFT Mumbai reserves the right to select the best vendor depending on vendor's technical capabilities. NIFT Mumbai reserves the rights to accept/reject any offer in full or in part or accept any offer as per the prevalent provisions of CVC.
14. In the financial offer/ bid, the prices quoted should be inclusive of all taxes, packing, forwarding, freight, insurance, delivery and commissioning etc. at delivery site (NIFT Mumbai campus). Custom Duty Exemption Certificate will be issued by NIFT Mumbai to the qualified bidder.
15. All items to be quoted with 3 years Warranty post installation.
16. Any upgrade in the software provided by the bidder for the **Wearable Eye Tracker, Static Eye Tracker Machine, EEG Machine, Galvanec Skin Response Sensors and its allied integration software System** should be provided free of cost during the maintenance contract at no additional cost.

### **SELECTION CRITERIA:**

The selection criterion for award of contract is based on three stages of selection as enumerated below:

#### **Stage I**

- 1) The tenderer shall be evaluated on the basis technical qualifying criteria prescribed in Para I.

#### **Stage II**

- 1) The technically qualified tenderers in stage I have to submit presentation before competent committee of NIFT regarding the proposed **Wearable Eye Tracker, Static Eye Tracker Machine, EEG Machine, Galvanec Skin Response Sensors and its allied integration software System** they propose to install at NIFT Mumbai. This will involve the presentation before competent committee of NIFT, technical discussion, etc. The tenderer also has to bring details of makes alongwith their catalogues, if any, which they wish offer in the proposed **Wearable Eye Tracker, Static Eye Tracker Machine, EEG Machine, Galvanec Skin Response Sensors and its allied integration software System**.
- 2) The committee will interact with each tenderer and each tenderer shall be given 2 Hrs for their presentation and technical discussion with committee.

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- 3) This will only be technical discussion and no tenderer shall discuss any financial matter with any of the committee member. If any tenderer found to be discussing the financial things before the committee, the same shall be liable for rejection forthwith without assigning any reasons whatsoever.

### **Stage III**

- 1) The competent committee in Stage II shall recommend the names of the tenderers whose presentation was upto the mark and to the satisfaction of competent committee. Financial bids of qualified tenderes from stage II only shall be opened on e-tender portal. The work shall be awarded on the basis of "LOWEST OFFER" received in the Financial Bid.

### **SCOPE OF WORK:**

#### **Supply, Installation & Commissioning**

- 1) The tenderer has to supply and install the **Wearable Eye Tracker, Static Eye Tracker Machine, EEG Machine, Galvanec Skin Response Sensors and its allied integration software System** within 90 days from the date of issue of purchase order. The cost of delivery of all the materials including freight, etc. has to be borne by the tenderer. The installation shall be done at designated place finalized the Competent Authority of NIFT.
- 2) If any of the machine is to be bring from outside India, the charges for bill of lading, Import Charges, Charges for LC, if any shall be borne by the tenderer and the entire system has to be delivered and installed at the complete risk and cost of the tenderer. However, NIFT will assist the tenderer by providing documents and exemption certificate if any.
- 3) The tenderer has to depute 1 supervisor and 1 technical person for 1 week for providing demo of the functioning of the machine with no additional cost to NIFT.
- 4) The tenderer have to submit the calibration certificate of the machines at the time of installation.

#### **Training**

- 1) Despite initial demo, the tenderer shall arrange 5 days training programme in NIFT premises which includes hands on training. NIFT will provide the space and infrastructure for the training. However, the training has to provide by the tenderer without any additional cost to NIFT.

#### **Maintenance**

- 1) The tenderer has to maintain the entire **Wearable Eye Tracker, Static Eye Tracker Machine, EEG Machine, Galvanec Skin Response Sensors and its allied integration software System** for

Seal & Signature of the Tenderer: \_\_\_\_\_

3 years from the date of completion of work. The warranty/ guarantee shall be applicable for 3 years. The tenderer shall provide on call support service for rectifying the defects if any within 2 working days from the date of complaint.

- 2) The tenderer is responsible for periodic maintenance of the system and has to submit periodic maintenance chart to NIFT authorities within 10 days from the successful installation of the system.
- 3) The tenderer shall strictly adhere to the periodic maintenance chart and submit the periodic reports to NIFT authorities without any additional cost to NIFT.
- 4) The Security Deposit/ Performance Guarantee shall be released only after completion of Maintenance Period of 3 years subject to satisfactory performance of the tenderer during the period of maintenance.
- 5) The tenderer has to upgrade the required softwares, if any during the free maintenance period of 3 years without any additional cost to NIFT.
- 6) The tenderer has to calibrate the machines once a year and has to submit the calibration certificate to NIFT.

### **TENDER TERMS & CONDITIONS:**

1. Tender should be submitted in the following two separate covers:
  - i) Technical Bid (duly filled in and signed tender form including “Annexure – I to VI”)
  - ii) Price Bid (“Annexure – VII to VIII”)

Both the Technical Bid and Price Bid should then be put in a single outer cover, duly sealed and super scribed as **“Tender for the Supply, Installation, Commissioning, Training & Maintenance of Wearable Eye Tracker, Static Eye Tracker Machine, EEG Machine, Galvanec Skin Response Sensors and its allied integration software Systemat NIFT Mumbai – 410210”**.

2. The rate offered must be filled in the performa of the tender form. Any correction should be initialed by the tenderer in the price bid attached with this document.
3. Tender Document fee is Rs-`1000/- per document. No tenderer shall be issued more than one tender form.
4. **The rate quoted in the price bid must be inclusive of all taxes, import charges if any and F.O.R. NIFT Office premises.**
5. **Rates should be offered unconditionally and if rates are submitted with any condition the tender liable to be rejected.**
6. Tenderer must have to quote item wise rates and consolidated rates also.
7. These rates will be valid for **90 days** from the date of opening of tender document.

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8. Tenderer can quote for all the items or for part of the items. However, in the event of split purchase from different parties, the successful tenderer must give guarantee of compatibility of machine/ software with the other machine/ system as the end objective of installation of these machines is to integrate the same for accurate results. Hence, it is again clarified that in the event of split purchase the tenderer must ensure compatibility of the machine/ software with other machine/ softwares.
9. **Last date of receipt of sealed tender documents is 12.03.2018 up to 2:30 pm.**
10. Tenderer shall enclose a demand draft/pay order of any Scheduled Bank for an amount of `Rs-1,00,000/- in favour of NIFT Mumbai payable at Mumbai as the non-interest bearing Earnest Money Deposit. Tender document without EMD shall be rejected.
11. The EMD of unsuccessful bidders will be refunded within 15 working days of opening of price bid except lowest bidder. Tenderers who satisfy the technical conditions stipulated in the tender document and who have enclosed all the documents /supplied materials required will alone be considered. **For the items mentioned in Price Bid the lowest unit price quoted for any of the item is the criterion for selection.** However NIFT reserves the right of placing the orders to any of the Tenderers.
12. The successful tenderer will have to deposit 5% of the total bid amount as security deposit and this will also be treated as Performance Guarantee. Part of this amount will be adjusted against the EMD deposited by the tenderer along with the tender form. The balance amount will have to be deposited by the successful tenderer within 5 working days of the receipt of the Purchase Order by a Demand Draft in favour of NIFT Mumbai, payable at Mumbai at any branch of Scheduled Bank failing which the Purchase Order will be treated as cancelled and the EMD amount will be liable to be forfeited. The successful bidder's Security Money will be returned after the warranty period of the supplied items is over and no interest will be paid for security deposit.
13. No tenderer will be allowed to withdraw the tender rates after opening of the tender. If any tenderer withdraws the rates the EMD amount deposited by him will be forfeited and he will be disqualified from participating in any future tender of the Institute.
14. The successful tenderer will have to **deliver and install the Wearable Eye Tracker, Static Eye Tracker Machine, EEG Machine, Galvanec Skin Response Sensors and its allied integration software System within 90 days from the date of issuance of purchase order.** Also the demonstration of all the functions of the equipment to the user department should also be completed by the successful tenderer within the scheduled time frame.
15. If the tenderer fails to supply the ordered quantity within scheduled time frame, the Institute will have right to purchase the ordered quantity which the supplier could not supply within scheduled time limit from any other alternate sources and the contract will be liable to be terminated and the Security Deposit will be liable to be forfeited. The Institute will have the right to impose penalty for the delay of the supply of ordered quantity and also to recover the excess amount, the Institute has been forced to pay for purchase of material from the alternate sources from any dues payable to the supplier.
16. The agency should enclose self-attested copies of allotment of PAN/PAN Card under the Income Tax Act failing which tender will be liable to be rejected. Tenderer will have to produce all these original documents at any time demanded by the Institute.
17. NIFT reserves the right to reject any or all tenders without assigning any reason thereof.

Seal &amp; Signature of the Tenderer: \_\_\_\_\_



18. Equipment will be supplied with at least 3 years warranty / guarantee and free service from the date of verification & acceptance by NIFT.
19. Equipment having outdated designs with similar specification will not be accepted.
20. The defective equipment and accessories shall be replaced by the agency without any additional charge during guarantee period of supplied equipment, otherwise Performance Guarantee shall be liable to forfeited and in all the matters the decision of the Director, NIFT Mumbai shall be final. The replacement will have to be carried out within 7 days of the intimation being received from the Institute.
21. Payment of the supply will be released after verification of equipment and related accessories, successful demonstration of the equipment, certification of satisfactory installation by the user department and on the production of original invoices.
22. **Tenderer must sign along with company seal on each and every page of the tender document as token of the acceptance of tender conditions.**
23. If any malafide intention is observed by NIFT, the agency shall not be eligible for further tenders.
24. **Director NIFT-Mumbai reserve the right to cancel the whole tender process at any stage in the interest of NIFT, without assigning any reasons whatsoever and also the rights to waive any minor discrepancy in the tenders received.**
25. Director NIFT-Mumbai also reserves the right to change the quantity/ upgrade the criteria/ drop any item or part thereof/extension of delivery date at any time before placing the purchase order.
26. The successful bidder will have to supply and install the **Wearable Eye Tracker, Static Eye Tracker Machine, EEG Machine, Galvanec Skin Response Sensors and its allied integration software System** ordered within **90 days** of the issuance of the purchase order at the address given below, failing which the firm will have to bear the entire cost of the alternate arrangement or the fine as decided by the NIFT.  
**Address:-**  
National Institute of Fashion Technology,  
Resource Centre, 6<sup>th</sup> Floor, New Building,  
NIFT Campus, Plot No. – 15, Sec – 4,  
Kharghar, Navi Mumbai – 410210.
27. In case of any dispute raised by the supplier, a representation will be made only by the authorized representative of the supplier and the decision of the Director NIFT – Mumbai will be binding on the supplier.
28. In case of any dispute the Jurisdiction of Court will be Mumbai.
29. Bidders need to provide adequate training to the nominated persons of NIFT at their cost. NIFT will not bear any training expenditure.
30. Following penalty shall be levied on the tenderer for lapse of any services mentioned herein under:

Sr. No.	Event	Penalty
1	Non-delivery of <b>Wearable Eye Tracker, Static Eye Tracker Machine, EEG Machine, Galvanec Skin Response</b>	Rs. 3000/- per day from 61th day subject to maximum 5% amount of the total work order.

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	<b>Sensors and its allied integration software System</b> within 90 days	
2	Periodical Maintenance – Non-servicing/ poor performance / Non submission of periodical maintenance report.	Rs. 5000/- for each lapse subject to maximum 3% amount of the total work order.  In addition, the performance security/ security deposit shall be forfeited.
3	Timely attending the complaints during free maintenance period- Compliant has to be attended within 2 working days	Rs. 500/- from 3 <sup>rd</sup> day subject to maximum of Rs. 10000/-.  In addition, the performance security/ security deposit shall be forfeited.
4	Software upgradation (if any) – The tenderer has to upgrade the required softwares, if any without additional cost to NIFT.	If the softwares are not upgraded by tenderer, the cost of upgradation shall be recovered from the SD/ Performance Security of the tenderer.

**ANNEXURE -I**  
**TECHNICAL BID**

**UNDERTAKING**

I/We have gone through the terms and conditions and will abide by them as laid down above.

I hereby undertake that the information provided above and elsewhere in the tender is true and the tender is liable to rejection if the same is found to be false or the information is found to have been suppressed by me.

Signature :

Name of the official :

Designation :

Name of the Agency :

Address of the tenderer :

Seal of tenderer :

Date :

Place :

Seal & Signature of the Tenderer: \_\_\_\_\_

**ANNEXURE – II**  
**TECHNICAL BID**

**DECLARATION**

I/We declare that I/we have never been blacklisted by any State Government/Central Government or any State/Central PSU.

Signature :

Name of the official :

Designation :

Name of the Agency :

Address of the tenderer :

Seal of tenderer :

Date :

Place :

Seal & Signature of the Tenderer: \_\_\_\_\_

**ANNEXURE – III**  
**TECHNICAL BID****EARNEST MONEY DEPOSIT PAYMENT PARTICULARS**

I. Number of Demand Drafts enclosed:

II. Demand Draft particulars

S. No.	D.D. No.	Date	Name of the Bank and Place	Amount in Rs.
1.				
2.				

I/We, ..... hereby declare that the particulars furnished by me/us in this offer are true to the best of my/our knowledge and I/We understand and accept that, if at any stage the information furnished by me/us are found to be incorrect or false, I/We am/are liable for disqualification from this tender and also liable for any penal action that may arise due to the above, besides being black listed.

Signature :

Name :

Designation :

Name of the Agency :

Address of the Tenderer :

Seal of Tenderer

Date:

Place:

Seal &amp; Signature of the Tenderer: \_\_\_\_\_

**ANNEXURE – IV (TECHNICAL BID)****Detailed technical description of Mobile Eye Tracking System to be installed for NIFT Mumbai**

Technical Specifications
<p>A] Wearable Eye Tracker</p> <ol style="list-style-type: none"> <li>1. System should be light weight and robust easy to handle in various conditions, in the lab or in the field.</li> <li>2. Fixed geometry, no mirror and camera adjustment required</li> <li>3. System should collect the data at 50 Hz sampling frequency</li> <li>4. System should be Non-invasive video based glasses-type eye tracker; binocular view and provision to Insert sun glasses</li> <li>5. Glasses weight - - less than 50 g</li> <li>6. Recording unit weight- less than 400g</li> <li>7. Automatic Calibration</li> <li>8. Validation- Live validation of gaze tracking quality</li> <li>9. Parallax compensation - Automatic parallax compensation</li> <li>10. Field of View- 100° horizontal, 60° vertical; or larger</li> <li>11. Scene camera Resolution: 1920 X 1080 at 25 fps; or better. Preferable 16:9 format H.264</li> <li>12. Scene camera field of view Field of view: 65° horizontal, 45° vertical; or better</li> <li>13. Audio Integrated microphone –</li> <li>14. Slippage compensation built-in</li> <li>15. Gyroscope and Accelerometer preferred</li> <li>16. Wireless live control and live annotations via Wi-Fi connected Windows device Wi-Fi standard 802.11 a/b/g/n/ac</li> <li>17. International Safety Norm compliance- CE Declaration of Conformity IP Class: 20 Eye Safety (EN 62471:2008) W-lan (RF)</li> <li>18. Wireless control via Wi-Fi connected Windows device Wi-Fi standard 802.11 a/b/g/n/ac, 2.4 GHz and 5 Ghz</li> <li>19. Recording time 100mins without battery exchange, Storage capacity of minimum 6 hrs recording</li> <li>20. System should have Analysis Software With provision for generating Gaze plot, Heatmap on video snapshot; Data Aggregation- Automatic and/or manual, Area of Interest marking and statistics, Fixation filter feature.</li> <li>21. Software should have sync options with other biometric sensor.</li> <li>22. Hardware should have Sync Port For sending/receiving TTL signals to other biometric devices/sensors like G S R, E E G...)</li> <li>23. Optional Accessory: Snap on Corrective lenses, –3.0 diopter to +3.0 diopter, in increments of 0.5 diopter</li> <li>24. Platform Supported in Pro SDK: Windows (32 bit and 64 bit) Mac OS X Linux (32 bit and 64 bit)</li> </ol>
<p>B] Static Eye Tracker</p> <ol style="list-style-type: none"> <li>1. Data rate or Sampling rate: <math>\geq 120</math>Hz, Binocular.</li> </ol>

2. Accuracy: 0.5 degrees or better
3. Precision: 0.35 degrees or better
4. Head movement error: 0.2 degrees maximum
5. Tracking distance: 50-80 cm
6. Freedom of head movement (width x height) 45 x 35 cm, at distance of 65 to 80 cm
7. Total System Latency:  $\leq 20$ ms
8. Time to tracking recovery:  $\leq 150$ ms
9. Eye tracking technique: both bright and dark pupil tracking
10. Screen size: Up to 24" (16:9) or better
11. Hardware weight:  $< 120$ g, easy to carry and set up
12. No manual adjustments are required and no additional software needs to be installed
13. Automatic and Manual calibration procedure. 9 point calibration
14. Should track eye gaze of virtually everyone, regardless of ethnic origin, age, or glasses/ contacts
15. Should have real-time tracking status meter as well as numerical validity measures for each gaze data point, which indicates the correctness of the data recorded.
16. Software should provide option for variety of stimulus for presentation such as images, text, videos, web, etc
17. Software should provide absolute raw data in terms of Eye and Gaze point co-ordinates, Pupil diameter, all relative to the frequency of tracking device
18. Software should support real time viewing of gaze data and provide visualizations such as heatmaps and gazeplots. Areas of interest and related metrics
19. Eye tracking data compatible with SPSS, MATLAB and other statistical software suites
20. Platform Supported in Pro SDK: Windows (32 bit and 64 bit) Mac OS X Linux (32 bit and 64 bit)

## C] Electro EncephaloGraphy (E E G)

1. Application: Research to investigate the brain activity while doing a task
2. Standard 10-20 wireless EEG with minimum data transmission range of 8 m
3. Sampling rate  $\geq 256$  Hz
4. CMRR  $> 100$ dB
5. Noise level  $< 3\mu$  V
6. Input impedance  $> 10$  G $\Omega$
7. Li-ion battery capacity  $> 800$ mAh
8. Headset should come with variety sizing options and should be easily adjustable
9. Should have channel options for ECG, EMG and EOG minimum 8 channels are required.
10. System should synchronize with eye tracking machine
11. Should be compatible with operating systems such as windows 7 & above.
12. Should have module for data integration within MATLAB, E E G LAB and C++ etc.
13. Facility to edit, save and print summary report, EEG page and brain map page, JPEG etc.
14. Output file should be saved in industry standard formats
15. Software should provide various metrics such as Cognitive workload, cognitive state metrics, stress level, etc

## D] Galvanec Skin Response Sensor

1. Processing: Microcontroller with 24mHz, 16Bit
2. Gyro: +/- 250 to +/-1000

3. Pressure sensor 400 – 1000 hPa
4. Should Provide pre-amplification of GSR signal, can be converted to digital format, and can stream directly to a host device without the need for an intermediate receiving unit.
5. Should provide real-time physiological data collection and streaming to a host PC for real-time display and storage
6. Communication: Bluetooth
7. Storage: Integrated MicroSD card slot
8. Battery: Rechargeable Li-ion
9. Weight should be < 35g
10. Input Protection: RF/EMI filtering, Current limiting
11. Frequency Range\*: DC-15.9Hz
12. Auxiliary input: 2 Channel Analog/I2C Digital input: via 3.5mm 4-position jack
13. Should allow studying Psychological Arousal (Mental Effort, Excitement, Shock), Stress Detection and Analysis, Marketing research
14. Should have easy Sync capability with other biometric devices like eye trackers.
15. Probes: Fingers Electrodes, Optical pulse sensor for finger and earlobe, Biophysical leads

E] Biometric Integration Software

1. Integration software for real time synchronization of eyetracking and EEG recording
2. Should be able to measure GSR readings
3. Should include Face reading module
4. Should generate statistics, heatmaps, graphs, etc

Signature :

Seal of Tenderer :

Date :

Place :



**ANNEXURE -V****TECHNICAL BID**

Technical Bid

(To be kept in separate sealed envelope superscripted as “Technical Bid”)

1. Name of the Agency/Firm
2. Name of the authorized person  
(Who signs on the tender documents)
3. Address of the Agency/Firm
4. Phone No. :-
5. Mobile No.:-
6. Fax No.:-
7. Email :-

Document to be submitted:

Sr.No	Particulars	Attached at Pg No	Remarks
1	Earnest Money Demand Draft for Rs1,00,000/- (separate DD)		DD NO. Amount Date
2	Tender Cost Demand Draft for Rs-1000/- (separate DD)		DD NO. Amount Date
3	Tender document along with compliance to the technical specifications filled and duly signed without mentioning the rates		To be filled, signed and attached with Technical Bid
4	Work completion period ( <b>with in90 days</b> )		Yes/No
5	Firm / Company Registration/ GST Registration NO.		Copy of certificate to be attached
6	PAN Number		Copy of certificate to be attached
7	Have you ever been debarred by any Govt. Organization/PSU educational institute		Yes/No
8	Certificate regarding carried out similar works in the last 02 years:		Copy of certificate to be attached
9	Turnover not less than 50lacs per annum for Two years for financial year 2015-16 and 2016-17		Copy of certificate to be attached (profit & Loss ,Balance sheet attested by the CA)
10	The catalogue of the items quoted should be attached		Yes/No
11	Undertaking duly signed by the tenderer.		Yes/No

Seal &amp; Signature of the Tenderer: \_\_\_\_\_

	<i>(Annexure I)</i>		
12	Declaration duly signed by the tenderer. <i>(Annexure II)</i>		Yes/No
13	The Tenderer should provide warranty/guarantee and Free Service for a period of minimum Three years from the date of installation. Undertaking to this effect shall be furnished in Annexure VI.		Yes/No

**Note-1: All the copies of documents mentioned above to be sealed in the technical bid cover along with EMD.**

**Note 2: This tender document contains 21 pages and bidders are requested to sign on all the pages. The Technical bid (Ann. – I to VI) & the Price bid (Ann. – VII to VIII) should be sealed in separate covers.**

**Note 3: Tenders not accompanied with above information & documents in support of the same may be summarily rejected.**

**ANNEXURE – VI**

**TECHNICAL BID**

**UNDERTAKING for WARRANTY/GUARANTEE AND FREE SERVICE**

I/We hereby accept to provide warranty/guarantee and Free Service for a period of minimum Three years from the date of installation of the equipment.

Signature :

Name :

Designation :

Name of the Agency :

Address of the tenderer :

Seal of tenderer :

Date :

Place :

Seal & Signature of the Tenderer: \_\_\_\_\_

**ANNEXURE – VII**  
**PRICE BID**

**PRICE BID CERTIFICATION**

To,  
The Director  
NIFT Mumbai

I/We hereby agree on the acceptance of this tender by Director, NIFT-Mumbai for the **Supply, Installation, Commissioning, Training & Maintenance of Wearable Eye Tracker, Static Eye Tracker Machine, EEG Machine, Galvanec Skin Response Sensors and its allied integration software at NIFT Mumbai – 410210** in accordance with the terms and conditions of contract stated in the tender document, the equipment hereunder named of the quality and sort and at the rates or price specified in Annexure – VIII.

Signature :

Name :

Designation :

Name of the Agency :

Address of the tenderer :

Seal of tenderer :

Date :

Place :

Seal & Signature of the Tenderer: \_\_\_\_\_

**ANNEXURE – VIII****PRICE BID**

Supply, Installation, Commissioning, Training & Maintenance of Wearable Eye Tracker, Static Eye Tracker, EEG, Galvanec Skin Response Sensors and its allied Biometric Integration Software) at NIFT Mumbai

Sr. No.	Description	Qty.	Unit Price (Rs `)	Total Price(Inclusive of all taxes) (Rs `)
A]	<b>Option -1 Item wise rates</b>			
	<b>Supply, Installation, Commissioning, Training &amp; Maintenance of</b>			
1	Wearable Eye Tracker	1 Set		
2	Static Eye Tracker	1 Set		
3	Electro EncephaloGraphy (E E G)	1 Set		
4	Galvanec Skin Response Sensors	1 Set		
5	Biometric Integration Software	1 Set		
		<b>Total Rs-</b>		
In Words (.....)				
B]	<b>Option – 2 Consolidated package for educational institute</b>			
1	1 Set of Wearable Eye Tracker, Static Eye Tracker, Electro EncephaloGraphy (EEG), Galvanec Skin Response Sensor and its Biometric Integration Software	1 Set		
		Total Rs-		
In Words (				

**Price:-Prices should be inclusive of all taxes, import charges, etc.**

**Items quoted must be as per the specifications given in Annexure – IV.**

**Note:**

1. NIFT Donations are exempted u/s 80 (G) of Income Tax Act.
2. Being registered with DSIR, NIFT is entitled for Custom / Central Excise duty exemption.

**Seal & Signature of the Tenderer :**

**Full Name & Designation of the Tenderer :**

**Date :**

Seal & Signature of the Tenderer: \_\_\_\_\_

NATIONAL INSTITUTE OF FASHION TECHNOLOGY

राष्ट्रीय फैशन एवँ टेक्नोलॉजी संस्थान

T. No. : 25/NIFT/MUM/PO/2017-18

**Place :**

Seal & Signature of the Tenderer: \_\_\_\_\_