

GOVERNMENT OF NATIONAL CAPITAL TERRITORY OF DELHI
DELHI TECHNOLOGICAL UNIVERSITY
SHAHBAD DAULATPUR: BAWANA ROAD: DELHI-110 042
Ph. 27871018; Email: sp@dtu.ac.in

F. No. DTU/MED/HOD/2025/1914/PUR/11

Dated: 06.02.2026

NOTICE INVITING TENDER

E-Tenders, along with illustrated literature/leaflets/brochure for the supply/execution of item(s)/stores/work detailed below, are invited from the Manufacturers (OEM) or their Authorized Distributors/dealers/Chanel Partners only in a two-bid system through 'e' procurement solution only as per the guidelines and terms & conditions given in tender document - details of the NIT along with terms & conditions, specifications, etc. can be seen/downloaded at/from the website.

The interested tenderers/bidders should upload duly signed tender form and their 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://govtprocurement.delhi.gov.in> latest by **27.02.2026 to 2.30 P.M.** An index prepared after pagination of all documents may also be **uploaded** The technical bids will be opened online on **27.02.2026 at 3.00 P.M.** in the office of Officer Incharge (PURCHASE SECTION) in the presence of only those bidders or their authorized persons, whose original instrument of EMD or request letter along with a copy of eligibility document for seeking exemption from EMD submission, have been dropped in the tender box placed in the office of OIC (PURCHASE) before the bid-submission-closing time, which will also be displayed on the website. To participate in the tender through an e-procurement solution, the tenderers are required to have a digital certificate and be registered with the application Service Provider NIC.

The tender document is also available for viewing on the website of Delhi Technological University, Delhi, at www.dtu.ac.in

Yours faithfully,

EMD: ₹ 93,500.00

Officer In-charge (PURCHASE SECTION)

S. No.	DESCRIPTION	QTY. (No.)
01.	Supply of Microprocessor-Controlled KINEMATIC VISCOMETER with integrated Digital Timing for Automotive/Automobile Engineering Laboratory, Department of Mechanical Engineering, DTU. (Complete set, as per detailed specification)	01

Detailed Specifications on the next page

Technical Specifications for Microprocessor-Controlled Kinematic Viscometer

1. General Description

The **Microprocessor-Controlled Kinematic Viscometer** would be a **constant temperature viscosity bath** designed for precise viscosity measurement of petroleum products, lubricants, and fuels. It shall include **microprocessor-controlled temperature regulation** and **integrated digital timing**, ensuring accurate and repeatable viscosity determinations.

2. Compliance with Standards

- **ASTM D445** – Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids
- **ISO 3104** – Petroleum Products – Determination of Kinematic Viscosity
- **IP 71** – Determination of Kinematic Viscosity of Petroleum Products

3. Key Features

- **Microprocessor-controlled temperature regulation** between ambient and 150°C.
- **Integrated digital timing** for precise measurement of sample efflux times.
- **Dual digital displays** showing setpoint and actual bath temperature.
- **Selectable temperature scale** – Fahrenheit or Celsius.
- **Over-temperature and low-liquid level protection** for enhanced safety.
- **Glare-free fluorescent illumination** for clear visibility of viscometers.
- **Built-in cooling coil** for temperature control at ambient or below ambient conditions.
- **RS232 communication interface** for data logging and analysis.
- **Capacity to accommodate up to seven glass capillary viscometers** so that seven samples can be carried simultaneously at a pre-determined temperature.

4. Advanced Timing System

- **Provision of seven individual digital timers** on the front control panel for precise efflux interval measurement.
- Timing functions should be displayed in **0.01 or 0.1 second resolution**, with accuracy within **0.01%**.
- Automated viscosity measurement with highly reliable digital controls. Should allow the user to enter viscometer constants, automatically calculating and displaying results in viscosity units or seconds.

5. Bath Construction

- **Material:** Clear high-strength glass **bath chamber** enclosed in a rust-proof **finished steel housing**
- **Top working surface:** Should have seven **51mm viscometer ports**.
- **Front viewing window:** Should ensure safe, distortion-free observation.

- **Motorized stirrer:** Should provide uniform temperature distribution without turbulence.
- **Baffle system:** Would provide a background for easy viewing.
- **Glare-free fluorescent illumination** inside the bath for clear visibility of the viscometers shall be provided.
- **A redundant temperature controller** should be provided for additional safety against overheating.
- **A built-in cooling coil** shall be provided to enable temperature control at ambient or below ambient conditions.
- **Should consist of PID microprocessor circuitry** for precise regulation within ASTM-specified tolerances.

6. Safety Features

- **Low-liquid-level sensor:** A low-liquid-level sensor shall be provided
- **Redundant temperature controller:** Separate sensor probe for additional over-temperature safety.
- **Automatic power cut-off** in case of overheating or liquid level drop.

7. Connectivity & Data Logging

- Should support **ramp-to-set functions** and other advanced communication software.
- **RS232 communication interface** for external data logging and analysis.
- **Optional software upgrades** would be available for enhanced functionality without any additional charges.
- **A comprehensive data tracking system for recording viscosity measurement history shall be included** in the proposed viscometer.

8. Accessories & Additional Features

- **Viscometer holders** for various capillary viscometers.
- **Viscometer capillary tubes** shall be provided in sufficient number for measurement of the viscosity of various liquids/fuels
- **Calibration offset capability** for precise temperature adjustments.
- **User-friendly multilingual touchscreen interface.**
- **Comprehensive user manual and installation support.**

9. Installation & Warranty

- **Installation & commissioning** by the supplier.
- **On-site training** for faculty and staff.
- **One-year warranty** from the date of successful commissioning.
- **Four-year Comprehensive Annual Maintenance Contract (CAMC)** at 8-10% of equipment cost per year.

10. Procurement Process

- The equipment shall be procured through the **Government e-Marketplace (GeM) or open tendering.**

- The supplier must be the **Original Equipment Manufacturer (OEM)** or an **authorized distributor/dealer** with a valid certificate from the OEM.
- The bidder must provide **comprehensive user and technical manuals**.
- Any **software upgrades** released during the instrument's operational life shall be made available at **no additional cost**

(TO BE SUBMITTED ALONG WITH TECHNICAL BID)

TENDER NOTIFICATION NO: -----

Email: sp@dtu.ac.in

Phone No: - 27871018

UNDERTAKING

The Registrar,
Delhi Technological University,
Shahbad Daultapur, Bawana Road,
Delhi-110042

We, the undersigned (hereinafter called Bidder/Contractor/Vendor/Supplier), hereby offer to execute the supply of items as per specification against which we have quoted over rates and for which this tender may be accepted at the rates stated therein and subject to the terms & conditions set forth for such items as may be ordered by the Registrar, Delhi Technological University or officer acting on his behalf.

Date this _____ Day of _____

Signature of Contractor _____

Address _____

Guidelines/Procedure to be followed in the introduction of the 'e'-procurement solution:

1. **Payment of cost of Tender documents:** The collection of cost of Tender documents is dispensed away with, as there is no physical supply of the tender documents and also to have absolute anonymity of the bidder participating in the e-procurement solution. Bidders can view/download the tender documents at <https://govtprocurement.delhi.gov.in>
2. **Submission of bids:** The bidders desirous of participating in 'e'- procurement shall submit their price bids in the standard formats prescribed in the Tender documents, displayed at <https://govtprocurement.delhi.gov.in>. The bidder should upload the scanned copies of all the relevant certificates, documents, etc., to <https://govtprocurement.delhi.gov.in>. in support of their price bids. **The bidder shall sign all the statements, documents, and certificates uploaded by him, owning responsibility for their correctness/authenticity.** The original EMD or request letter with supporting documents of eligibility, if seeking exemption from EMD submission, must be dropped in the tender box placed in the office of **OIC (PURCHASE SECTION)** before the specified date & time. If the specified date for physical submission of EMD, etc., is declared a holiday, the same will be received up to the appointed time on the very next working day. However, documents of the bidders downloaded online or requisitioned subsequently will only form the basis for deciding the tender.
3. **Payment of Bid Security (Earnest Money Deposit):** The EMD shall be in the form of the **BG/Fixed Deposit Receipt only** of a scheduled bank issued in favor of **“Registrar, Delhi Technological University, Delhi”** and its scanned copy to be uploaded along with the bid, and the original shall be sent to DTU so as to reach before the date & time of closing of the bids; failing which bid will be rejected. The Bid Security (EMD) of unsuccessful bidders will be discharged immediately after finalization of the order/contract without any interest. However, firms registered with NSIC etc., are exempted from submitting EMD provided such registration includes the item(s) they are offering are manufactured by them and not for selling products manufactured by other companies.
4. **Price Bid Opening:** The Price Bids of only technically qualified bidders (whose bids satisfy the prescribed technical specifications/parameters and have also submitted all requisitioned documents & EMD) will be opened online at the specified date & time and will subsequently be evaluated to determine the lowest bidder. The result will be displayed on <https://govtprocurement.delhi.gov.in>, which can be seen by all the bidders who participated in the tender. There shall not be any negotiation, usually. However, negotiations can only be held with the lowest evaluated responsive bidder in exceptional cases. Counter offers tantamount to negotiations and shall be treated at par with negotiations.
5. **Processing of Tenders:** The concerned officer/officers will evaluate and process the tenders as done in the conventional tenders and will communicate the decision to the bidder online.

6. **Payment of Performance Security**: The successful tenderer shall furnish a Bank Guarantee/FDR of the value of **05% (Five Percent) of the basic cost** of the item for a period of 60 days beyond the warranty period in the form of BG/FDR from a nationalized bank to ensure the satisfactory performance of the item supplied. The performance guarantee is to be submitted at the time of installation/demonstration of the equipment. In case the performance of the item is not found satisfactory, the amount of Performance Security will be forfeited & credited to the university account.
7. **Participation of Bidders at the time of opening of bids**: Bidders have two options to participate in the tendering process at the time of opening of Bids:
 - i. Bidders can come at the place of opening of bids (electronically) as done in the conventional tender process.
 - ii. Bidders can view the process online.
8. **Participation Financial Rules for e-procurement**: The e-procurement system would be applicable for the purchase of goods, outsourcing of services, and execution of work as prescribed in GFR

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DELHI TECHNOLOGICAL UNIVERSITY,
SHAHBAD DAULATPUR, BAWANA ROAD,
DELHI - 110042
Ph. 27871018; Email: sp@dtu.ac.in

TERMS AND CONDITIONS

Procedure for submission of bids: The bidders who are desirous of participating in 'e'-procurement shall submit their technical and price bids in the standard formats (only Online) prescribed in the Tender documents, displayed at <https://govtprocurement.delhi.gov.in>. The bidder should upload the scanned copies of all the relevant certificates, documents, etc. (after page-numbering all documents) and prepare an index thereof at <https://govtprocurement.delhi.gov.in>. in support of their price bids.

The bidder shall sign on all the statements, documents, and certificates uploaded by him, who is responsible for their correctness/authenticity. The original EMD/ request letter with supporting documents, if seeking exemption from EMD submission, must also be submitted to the office of the Officer In-charge (PURCHASE), DTU. However, documents of the bidders downloaded online or requisitioned subsequently will only form the basis for deciding the tender.

Original Equipment Manufacturers (OEMs)/OEM Authorized Distributors/dealers/Channel Partners should submit their bids only. In case an OEM participates only through its authorized distributors/dealer/Channel Partners, the OEM has to explicitly certify that it does not sell products directly and participates in the tendering process through its authorized distributor/channel partner/dealer.

1. **ALTERATION IN THE SPECIFICATION:** The specifications mentioned/issued with this form of tender must not be altered by the Suppliers under any circumstances.
2. **INCOMPLETE TENDERS:** The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information/documents, as asked for in the NIT, or submission of a bid not substantially responsive to the NIT in every respect, will be at the Bidder's risk and may result in rejection of its bid.
3. **CANCELLATION OF TENDER/ CONTRACT/ IN PART OR IN FULL IN CASE OF DEFAULT IN CONTRACT/SUPPLY:** If the Supplier, in the opinion of the Institute, fails or neglects to comply with any of the terms & conditions forming, part of the order issued, the head of institute shall without prejudice to any other right or remedies under the contract, has the right to cancel the contract /order by giving **15 days notice** in writing to the Suppliers/firms without being liable to pay compensation for such cancellation.
4. Tender shall be uploaded as per the guidelines indicated for the e-procurement solution.
5. Demonstration of equipment has to be arranged by the suppliers if desired by the institute. The technical committee may visit the production facility or any user institution/establishment if so desired, for sample verification.
6. **The quotation should be valid for a period of 180 days from the date of opening of the tender.**
7. Rates are to be quoted in INR (Rupee terms) only, and any revision thereof is not allowed after the tenders have been opened.
8. The delivery period should be clearly mentioned against each item; in case the items are not readily available, an ex-stock offer will be preferred.

9. Rates should be quoted F.O.R Institution. Taxes and Duties, namely GST/Custom Duty (against Custom Duty Exemption Certificate)/Excise Duty, should be mentioned clearly.
10. Consignment will not be insured at the Institute/University Cost.
11. **The Bidder, if not the Original Equipment Manufacturer (OEM), must submit OEM's or their Distributor's Authorization to quote/sell the product(s).** Preference will be given to quotations pertaining to indigenous products. However, where suitable substitutes are not available, and item need to be imported the following clarification/information should be given.
 - i. Whether the item will be imported by the intended tenderers against its own import license or university will have to provide Custom Duty Exemption Certificate (CDEC).
 - ii. Name and address of the foreign supplier, make & model of the offered product, and authorization to sell from OEM or their Authorized Distributors/dealers/Chanel Partners.
 - iii. Delivery period including information about mode of dispatch and possible duration (after dispatch) for receipt of item at the port.
 - iv. Whether the item required any special preparation for installation. In case yes, full details should be given regarding operation maintenance of the items.
 - v. In case of costly/sophisticated items whether the tenderers will arrange any special training regarding operation/maintenance of the items.
 - vi. Nature of assurance for the supply of spares after the warranty period.
12. The payment will be made within 30 days after the successful demonstration/installation of the equipment and fulfilling of other obligations (like training, etc., if any) as per the purchase/work order against a Bill/Invoice containing therein details of goods delivered/services performed. Rejected items/goods should also be removed within 30 days at the cost of the bidder/supplier, after which no responsibility will be accepted by the University.
13. In the event of the item(s) being imported product(s), a Custom Duty Exemption Certificate (CDEC) will be issued by the University on the written request of the supplier, who, in turn, will furnish copies of relevant Customs Related Documents namely Airways Bill, Packing List, TR-6 challan, etc. along with Bill/Invoice.
14. Conditional bid shall be considered as non-responsive and shall be liable for rejection. Also, incomplete bids/quotations will be rejected summarily.
15. Bidder may note that the Bid shall be submitted based on "ZERO DEVIATION" and shall be in full compliance with the requirements of the Bidding Document, failing which the bid shall be considered as non-responsive and may be liable for rejection.
16. The Firm is required to link the University specifications with catalogs & leaflets/literature and also **mention the make and model for each item**. Detailed features for compliance with specification should be provided on the specification sheet & appropriate reference, i.e., page no. & para of literature, leaflet wherefrom the relevant information has been checked, should be indicated.

17. **EARNEST MONEY:-** EMD should be attached with the technical bid. The EMD shall be in the form of the **BG/Fixed Deposit Receipt** of a scheduled bank issued in favor of the **“Registrar, Delhi Technological University, Delhi.”** Such instrument is to be scanned and uploaded along with the bid, and the original instruments shall be sent to DTU so as to reach before the date of closing of the bids. Failure to furnish the original instrument before the closing of the bid, will entail rejection of bid and blacklisting. **If the tenderer, after acceptance of the tender, refuses to take up the purchase order, his Earnest Money will be forfeited.** Any tender received without / less Earnest Money deposit shall be summarily rejected.
18. The Purchase Order/Contract will be awarded to the successful Bidder whose bid has been determined to be responsive and has been determined to be the lowest evaluated bid, provided further the Bidder is determined to be qualified to execute the Order/Contract satisfactorily.
19. There shall not be any negotiation normally. However, in exceptional cases, negotiations can be held with the lowest evaluated responsive bidder only. Counter offers tantamount to negotiations and shall be treated at par with negotiations.
20. The Competent Authority reserves the right to reject any or all the tenders and annul the bidding process at any time prior to the award of the Contract, without assigning any reason, without thereby incurring any liability to the affected Bidder or Bidders, and his decision will be final.
21. The supplies shall have to be made within the period specified in the purchase order, failing which the order shall be canceled, and the Earnest Money will be forfeited. However, in exceptional circumstances and at the written request of the supplier/tenderer, an extension of the date for the supply of the material may be considered. It may be further noted that the extension in the supply period is at the sole discretion of the competent authority.
22. The University reserves the right at the time of award of PO/Contract to increase or decrease the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions. Further, the quantities in the PO/Contract may be enhanced by 30% within the delivery period.
23. In the case of the purchase of many items against one tender, which is not interdependent or where compatibility is not a consideration, the comparison would be made on the basis of prices quoted by the firms to identify the lowest quoting for each item.
24. **WARRANTY: All products must have a minimum of One Year Warranty.** A Warranty Certificate should invariably be supplied along with the item at the time of delivery. If, after delivery, acceptance, and installation, and within the guarantee and warranty period, the operation or use of the goods proves to be unsatisfactory, the supplier shall rectify the defects, errors, or omissions by repair or by partial or complete replacement on a free-of-cost basis. **Four-year Comprehensive Annual Maintenance Contract (CAMC) at 8-10 % of equipment cost per year.**
25. MSE bidder shall submit the Udyam Registration Certificate for exemption from submission of Bid Security. Irrespective of the product category, exemption from payment of EMD shall be given to all eligible MSEs, except for Traders and in Works contracts. However, MSE price preference shall not be given to traders. Tendering authority may verify the authenticity of service providers or manufacturers of the item to be procured by seeking additional documentation as mentioned in their Terms & Conditions while considering purchase

preference. If the MSE bidder does not provide a Udyam Registration Certificate to substantiate their MSE status, it will be presumed that the bidder does not qualify for any preference admissible in the Public Procurement Policy, 2012.

26. The Competent Authority reserves the right to levy liquidated damages up to 02% of the value of the order for delayed supply. If the supply is delayed beyond the extended period, the University reserves the right even to cancel the order and forfeit the EMD of the firm/ tenderer.
27. **PERFORMANCE SECURITY DEPOSIT:-** The successful tenderer shall furnish a Performance Security Deposit of the value of **05% of the basic cost of the item in the shape of Bank Guarantee/FDR, etc., from a nationalized bank pledged to Registrar, DTU, for a period of 60 days beyond the warranty period** to ensure the satisfactory performance of item supplied. The performance guarantee is to be submitted at the time of installation/demonstration of equipment. In case the performance of the item is not found satisfactory and/or the Supplier fails to complete its obligation under the contract/purchase order, the amount of Performance Security will be credited to the University account.
28. **DEFAULT:** In the event of default and unsatisfactory service of the contractor/Supplier firm, the DTU will be at its liberty to repair/get the item serviced from the other party at the cost of the supplier/ contractor/ tenderer.
29. In the case of software items, the suppliers should ensure that: -
 - i. Legal software is supplied in original sealed pouches /Packets.
 - ii. A license agreement is enclosed.
 - iii. A registration card is available for software.
30. **FAILURE AND TERMINATION:** - If the Contractor / Supplier fails to deliver the stores or any installment thereof within the period fixed for such delivery or at any time repudiates the contract before the expiry of such period, DTU may, without prejudice to the right of the purchaser recover damages for breach of the contract.
31. The technical & financial bids of only those bidders will be opened who fulfill the eligibility criteria and whose documents are found in order. If any of the dates earmarked for the opening of technical or financial bids happens to be a holiday, the bids will be opened on the very next working day.
32. Notwithstanding the provisions relating to the extension of time, penalty, and cancellation of tender/contract for default, the vendor shall not be liable for forfeiture of its performance security/ liquidated damages or termination for default if and to the extent that its delay in performance or other failures to perform its obligations under the contract is the result of an event of Force Majeure (i.e. an event or situation beyond the control of the vendor that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the vendor; such as wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes etc.). If the performance in whole or in part or any obligation under the contract is prevented or delayed by any reason of force-majeure for a period exceeding 60 days, either party may, at its option, terminate the contract by sending a written notice without any financial repercussions on either side.
33. For any detailed query/clarification in r/o technical aspect of the enquiry/bid/tender, the **Department of Mechanical Engineering** may be contacted.

34. Proof of GST Registration No and GST Return copy of the fourth quarter for the last three financial years from the date of opening of the tender bid is to be submitted.
35. PAN No (Copy of the PAN card to be attached)
36. The Bidder / OEM {themselves or through a reseller(s)}, should have executed project(s) for supply and installation/commissioning of the same or similar Category Products during the preceding 03 financial years (i.e., current year and three previous financial years) as on the opening date of bid, as per following criteria: (i) Single order of at least 40% of estimated bid value; or (ii) Two orders of at least 20% each of estimated bid value; or (iii) Three orders of at least 15% each of estimated bid value. A satisfactory Performance certificate issued by the respective Buyer Organization for the above Orders should be uploaded with the bid.
37. Authorization certificate from Original Equipment Manufacturer (OEM)/ Distributor/dealer or their Channel Partner to quote/sell the product, in case the bidder is not the OEM.
38. Bidder should not be under liquidation, court receivership, or similar proceedings. In case the bidder affirms that present litigation/arbitration has an impact on their obligation to perform a contract or doesn't provide affirmations as above, their bids shall be rejected
39. Disputes, if any, arising out of this tender shall be subject to the exclusive jurisdiction of Courts of Delhi/New Delhi only.

OFFICER-IN-CHARGE (PURCHASE SECTION)
DELHI TECHNOLOGICAL UNIVERSITY, SHAHBAD
DAULATPUR, BAWANA ROAD, DELHI - 110042
Ph. 27871018; Email: sp@dtu.ac.in

CHECK-LIST OF DOCUMENTS TO BE UPLOADED WITH TECHNICAL BID

S.No.	PARTICULARS OF DOCUMENTS	PAGE NO.	NO. OF PAGES
1.	Proof of EMD /Supporting Document of eligibility if seeking submission of EMD		
2.	The bidder should submit the annual financial turnover of the last three financial years (2022-23, 2023-24 & 2024-25). And the bidder shall enclose a certificate from a Chartered Accountant indicating the turnover details for the relevant period.		
3.	Proof of GST Registration No. and GST Return copy of the fourth quarter (January to March) for the last three financial years from the date of opening of the tender bid.		
4.	Brochure/Leaflets/Technical Information, including Make and Model, Imported/Indian of the item(s)		
5.	UNDERTAKING as per page no. 5 of the Tender Document, duly signed.		
6.	Technical specifications, Compliance sheet, terms and conditions and, delivery period, etc. to be submitted on the firm's letterhead		
7.	Warranty Certificate from the OEM/distributor		
8.	The Bidder /OEM themselves or through reseller(s), should have executed project(s) for supply and installation/commissioning of the same or similar Category Products during the preceding 03 financial years (i.e., current year and three previous financial years) as on opening date of bid, as per following criteria: (i) Single order of at least 40% of the estimated bid value; or (ii) Two orders of at least 20% each of the estimated bid value; or (iii) Three orders of at least 15% each of the estimated bid value. A satisfactory Performance certificate issued by the respective Buyer Organization for the above Orders should be uploaded with the bid		
9.	Authorization Certificate from Original Equipment Manufacturer (OEM) or their authorized Distributors		
10.	The bidder should not be under liquidation, court receivership, or similar proceedings, and should not be bankrupt. Bidder to upload the undertaking to this effect with the bid.		
11.	The bidder shall have after-sales service support facilities in India, from where service support shall be available at DTU, Delhi. The bidder shall provide the details and contact address		

	of such support facility on the bidder's letterhead with the technical offer.		
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Note: All copies of the above documents should be duly signed and stamped by the tenderer before uploading.

Signature of tenderer:

Name:.....

Name of firm:.....

Telephone No.....

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S.No.	Particulars Of Documents	No. of Pages

Pagination must be carried out/completed properly.