

#### **Notice Inviting E-Tender**

E-Tender No. ADM: STR: 3172:DAS:2024-25 Date: 13/06/2024

C.I.R.T., Bhosari, Pune invites E-Tender in Two Bid Systems (Technical and Financial) from Original Equipment Manufacturers (OEMs)/ Authorised Distributors for Supply, Installation & Commissioning of Data Acquisition System 100 Hz and accessories for Undertaking Tests (Brake test, speedometer calibration test, Speed limiting function test, Coast down test, Constant Speed Fuel Consumption Test, Acceleration Test and Maximum speed Test for testing & certification of all category of vehicles including all category of electric vehicles) at Safety & Homologation Division C.I.R.T., Bhosari, Pune-411026.

Sr. No	Description	EMD	Last Date for Online Submission	Technical Bid Opening
01	Supply, installation and commissioning of Data Acquisition System 100 Hz and accessories for Undertaking Tests (Brake test, speedometer calibration test, Speed limiting function test, Coast down test, Constant Speed Fuel Consumption Test, Acceleration Test and Maximum speed Test for testing & certification of all category of vehicles including all category of electric vehicles)	INR 1,50,000/-	01/07/2024 Time- 17.30	02/07/2024 Time-11.00

Interested Test Equipment Manufacturers/ Authorised Distributors of Test Equipment Manufacturers, with valid authorisation letter of Test Equipment Manufacturer may view and download detailed tender documents from :

### C.I.R.T.'s e-Tender portal.

#### www.cirtindia.com/tendernotice.html or https://tenderwizard.com/CIRT

All Bids must be submitted through the Online portal. Technical Bid shall be submitted **online** (all documents to be signed and scanned) and a hard copy of the same along with Tender form fee and EMD vide DDs drawn in favour of Director, CIRT and payable at Pune, in the envelope superscribed as Technical Bid for "Supply, Installation & Commissioning of Data Acquisition System 100Hz, Pedal Force sensor with BNC, Banana Connector and mounting Bracket, Lever Loadcell with BNC and Banana Connector, Digital Display, Laptop and accessories" to be submitted by the bidder to: Head -ASD, CIRT, Bhosari, Pune Nasik Road, Pune 411026.

#### Salient information about the E-Tender:

1] <u>Who can participate in this e-Tender:</u> The bidders who have registered with C.I.R.T.'s e-Tender portal can only participate in this tender process.

#### 2] How to Register:

- a) The prospective bidders must register to CIRT e-tender portal by paying **Annual Registration Charge of Rs. 2,000/- (+) G.S.T.** (as applicable) through E-Tender portal by online payment mode. On completion of the registration process, the bidders will be provided user ID and Password. After receipt of User ID and Password, Bidders can log on at our e-Tender portal for downloading & uploading tender documents...
- b) **Tender Processing Fee (Non-Refundable) with G.S.T.** (as applicable) is payable online on the portal of CIRT e-tendering website for applying the tender online.

Note: Banking Transactions charges are applicable for online payment

<u>Device requirement for participation in e-Tender</u>: Bidder should have valid Class III Digital Signature Certificate (DSC) device for participating in e-Tender. For integrity of data, its authenticity /non-repudiation of electronic records shall be in compliance with IT Act 2000 as amended from time to time. It is necessary for each user to have a Digital Certificate (DC), also referred to as Digital Signature Certificate (DSC) of Class III issued by a Licensed Certifying Authority (CA). The contact details for e-Tendering are furnished below:-

#### Name of the Service Provider:

Contact Persons	Telephone / Email		
Mr. Sanjay Chandak	Mobile: 9665721619	For vendor Registration / DSC/Any other issue	
	Email :sanjay.kc@etenderwizard.com	regarding e- Tender Process,	
Tenderwizard Helpdesk:	Contact No: 080-45811365, 080-45982100	Please contact	
петриезк .	Email: twregdelhi@etenderwizard.com	Tenderwizard	

Note: Above contact details are only related to technical queries pertaining to submission / upload of E-Tender, for any other queries please email to <a href="mailto:stores@cirtindia.com">stores@cirtindia.com</a> or contact Stores officer on 020 – 67345300.

- Availability of Tender Documents: All bid documents (Technical and Commercial) are available ONLINE at CIRT's e-Tender portal <a href="http://tenderwizard.com/CIRT">http://tenderwizard.com/CIRT</a>. The registered bidders can download the Bid from these websites. If tender form fee of Rs.2000/- plus GST is not received along with physical technical bid submission, the bid will be disqualified. For Firms having MSME Certifications. (Stores may pl update..)
- 5] <u>Mode of Submission:</u> The Tender Document should be submitted in two parts:

**PART-A TECHNICAL BID** – Technical Bid shall be submitted **online** (all documents to be signed and scanned) and a hard copy of the same along with Tender form fee and EMD vide DDs drawn in favour of Director, CIRT and payable at Pune, in the envelope superscribed as Technical Bid for "Supply, Installation & Commissioning of Data Acquisition System 100Hz, Pedal Force sensor with BNC, Banana Connector and mounting Bracket, Lever Loadcell with BNC and Banana Connector, Digital Display, Laptop and accessories" to be submitted by the bidder to: Head -ASD, CIRT, Bhosari, Pune Nasik Road, Pune 411026.

- Note: 1. Bidder should clearly mention the Tender no. and Title of the tender which is submitted.
- 2. Technical bid must be compulsorily submitted both online and hard copy within stipulated date and time, failing which the bid would stand disqualified.

Part –B COMMERCIAL BID – Commercial Bid to be submitted online only. Commercial bid sent through hard copy will not be accepted and shall be disqualified. The bidder should submit the Commercial Bid online only in the attached Excel Format as detailed at chapter 5.

While uploading / submitting the documents, it should be ensured that the correct tender no. and tender title is mentioned.

- 6] All pages of Tender documents and Addenda / Corrigenda (if any) must be signed by Authorised Signatory and stamped with proper official stamp and date by the authorized signatory of the Bidder / or authorized power of Attorney holder (relevant authorization document to be enclosed) at the lower right-hand corner.
- 7] Bidders are advised to visit CIRT's e-Tender portal <a href="http://tenderwizard.com/CIRT">http://tenderwizard.com/CIRT</a> regularly for any Addenda / Corrigenda.

#### Tel. (91) 20 67345300 (30 Channels) Fax: (91) 20 67345403 Website: www.cirtindia.com

TENDER DOCUMENT SUBMISSION – A BRIEF

Sr. No.	Particulars	Details			
1.	Tender Reference No.	ADM: STR: 3172:DAS:2024-25			
2	Tandar Titla	Supply, Installation & Commissioning of Data Acquisition			
2.	Tender Title	System 100 Hz and accessories			
3.	Tender Issuing Authority	Central Institute of Road Transport, Pune			
4.	Equipment Installation Location	CIRT Pune Nasik Road Bhosari, Pune 411 026			
5.	Tender Form Fee	Rs.2000/- (Rupees One thousand only) Plus GST to be paid through Demand Draft in favour of "Director CIRT" *Firms having MSME registration are exempted from payment of tender form fee.			
6.	Earnest Money Deposit	Rs. 1,50,000/- (Rupees One Lac Fifty Thousand only) through Demand Draft in favour of "DIRECTOR CIRT" *Firms having MSME registration are exempted from payment of Earnest Money Deposit. Note: * MSME registered firm shall submit copy of MSME UDYAM registration certificate.			
7.	Submission of Pre-bid queries	• On or before 21/06/2024 Time-17.00 by email/hard copy			
	(For Pre-Bid Query Format Refer	of letter.			
	Annexure A )	<ul> <li>Email to be sent to <u>stores@cirtindia.com</u></li> </ul>			
8.	Pre-bid meeting Date, Time and Mode	On 24/06/2024 Time-14.30 in Online & Offline mode.			
9.	Pre-bid meeting Venue	Central Institute of Road Transport Conference Hall Pune Nasik Road, Pune 411 026 For online Link will be sent upon receipt of request to stores@cirtindia.com The request should be received on or before 09/05/2024 Time-17.00			
10.	Last Date of submission of online bids Technical & Financial	01/07/2024 at 1730 hrs			
11.	Physical Submission of only Technical Bid	01/07/2024 by 1730 hrs			
12.	Technical Bid Opening	02/07/2024 at 1100 hrs @ CIRT, Pune			
13.	Commercial Bid Opening	Date will be finalized and communicated on conclusion of technical bid evaluation.			
14.	Address for Communication and Submission of Technical bids	DIRECTOR Central Institute of Road Transport Post Box. 1897, Pune Nasik Road, Pune 411026. Tel: 020-67345300			
15.	Download Request for Proposal & Upload e-tender	A copy of the tender document should be downloaded from <a href="https://tenderwizard.com/clrt">www.cirtindia.com/tenderNotice.html</a> or <a href="https://tenderwizard.com/CIRT">https://tenderwizard.com/CIRT</a>			

The Director, C.I.R.T. Bhosari, Pune 411 026 reserves the absolute right to accept / reject any or all bids at any stage of the tender process without assigning any reason whatsoever.

# Check List for Documents to be enclosed (bidder is requested to fill the relevant details):-

## (please $\sqrt{\text{in appropriate coloumn}}$ )

1.	Payment of Tender form fee [Non-refundable] [DD	
	No dt Bank for <b>Rs.2000/- plus GST</b> ]	
2	Demand Draft favouring Director, CIRT for EMD (Refundable) (DD NodtBankfor Rs.1,50,000/-]	
3	Compliance Statement of Terms & Conditions (As per below Table - 1)	
4	List of Clientele (As per below Table - 2)	
5	Prebid Queries format – Annexure A	
6	Financial Details of the Bidder – Annexure B	
7	Bidder Information Sheet - Annexure C	
8	Anti- Blacklisting Certificate- Annexure D	
9	Details for Pre-requisite Infrastructure Requirements for Installation & Commissioning of the Test Equipment Data Acquisition System 100 Hz and accessories – Annexure 'E'	
10	Technical Compliance Sheet - Annexure 'G'	
11	Undertaking from the test equipment manufacturer in case of bidder is test equipment manufacturer - Annexure 'H'	
12	Undertaking from the test equipment manufacturer in case of bid is submitted by authorised distributor - Annexure 'I'	
13	Self Certification under preference to Make in India Order Certificate- Annexure 'J'	
14	Self-Certification to be submitted by Non-local suppliers - Annexure J1	
15	Format for submission of letter from purchaser of Data Acquisition System 100Hz, Pedal Force sensor with BNC, Banana Connector and mounting Bracket, Lever Loadcell with BNC and Banana Connector, Digital Display, Laptop and accessories - Annexure 'K'	

## Table 1

# I hereby accept all the terms & conditions of the tender including following: -

Clause	Chapter No./point no.
Pricing, Schedule of Payment Terms and Taxes & Duties	3( 1-3 )
Warranty A) Minimum 3 year (comprehensive) B) Free Replacement on Door Delivery basis. C) Performance Bank Guarantee D) Extension of Warranty	2(5) 2(5-a) 2(4) 2(6)
Delivery A) Door Delivery B] Penalty on delayed delivery Pre-despatch Inspection	2( 2-A ) 2( 2-B ) 2( 1 )
Installation, Commissioning of Test Equipment and Training	2(2)
Technical & Commercial compliances:	
Technical Specification:  Compliance to the Technical Specification/details	4 (1-3 )
Calibration:  NABL Calibration certificates issued by OEMs who are the manufacturer of OES.	4 (1-3 )
Annual Maintenance Contract (AMC):	2(7b)
Compliance to the AMC as per the tender condition.	
Spare Parts:	2( 5 a-d )
Bidder should declare the spare parts supply in addition to machine for maintenance or breakdown under warranty and successful bidder should give undertaking that with supply of machine will supply the declared spares too.	
Performance Bank Guarantee: Compliance to the performance bank guarantee as per the tender condition.	2( 4 ) 2( 7-g ) 3 ( 2-c )
Customer Service Support after Warranty Period: Compliance to the customer service support after warranty period as per the tender condition.	2 (7)
Authorized agency for Technical Services:	2( 10 )

If bid is submitted by authorized distributor then distributor shall be associated with original equipment manufacturer for minimum last 7 years and have expertise of Supply, installation, commissioning, maintenance & repair in most effective manner. Accordingly, the relevant documents of the OEM for authorisation shall be submitted with tender. In case the authorised distributor fails, it is the responsibility of the OEM to fulfil the commitments as per undertaking Annexure T.

In the event of any dispute, the legal matter shall be subjected to the jurisdiction of Pune Court only. We confirm with our acceptance to the instructions as given.

Name & Signature of Authorised Signatory

Tenderer must provide existing client list. A list of such clients shall be furnished in

the following format.

Sr.	Name of	Name of	*Purchase	Date of	Feedback	Presently
No.	Company,	Contact	Order /	Installation	from	the
	Postal	Person;	Work Order		Clients on	machine is
	Address	contact	Details		their	operating
		no., email	( completed		letterhead	satisfactory
		id	projects)			please
						mention
						(Yes/NO)
1)						
2)						
3)						
4)						
5)						
6)						
7)						

<sup>\*</sup>Copy of Purchase order/work order and Feedback letter from clients must be scanned and uploaded (for minimum Seven clients)

Name & Signature of Authorised Signatory (with Company stamp)

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# Chapter 1 Instruction to Bidders

## 1. Earnest Money Deposit (EMD) / Bid Security:

Earnest Money Deposit [EMD] will have to be paid along with the tender by a Crossed Demand Draft drawn on any Nationalized /Scheduled Bank in favor of the Director, CIRT, and payable at Pune. The details of the same should be submitted in the envelope containing Technical Bid. Tender without Earnest Money Deposit will be rejected Submission of Bank Guarantee, in lieu of EMD draft will not be accepted.

Bidder shall submit the EMD of an amount INR 1,50,000/- (In words Rs. One Lac Fifty Thousand only) along with Technical Bid before the due date & time of closing of the bidding process.

In case of foreign manufacturers, EMD to be in Indian Rupees (INR) only. The CIRT shall not be liable for payment of any interest on EMD.

Firms having MSME registration are exempted from payment of Earnest Money Deposit.

MSME registered firm shall submit copy of MSME UDYAM registration certificate.

- **A. Refund of EMD to unsuccessful Tenderers:** EMD will be refunded by cheque/DD/NEFT to the unsuccessful tenderer, after decision on the acceptance of the successful tenderer is taken or within 6 months from the date of opening of tender, whichever is earlier. Transaction will be done in INR for refund of EMD to foreign bidders.
- B. Earnest Money Deposit of successful tenderer: EMD will be refunded by cheque/DD/NEFT to the successful tenderer only on satisfactory execution of Purchase Order(PO) and submission of Performance Bank Guarantee. If the successful tenderer refuses to accept the PO with terms and conditions of tenders and/or as mutually agreed terms, EMD will be forfeited, and no further correspondence will be entertained in the matter. In cases, where the successful tenderer does not convey a written acceptance of order within 15 days of date of issue of Purchase Order. the Purchase Order will be cancelled and EMD will be forfeited.

#### C. Validity of offer:

The offer should be kept valid for a minimum period of **6 months** from date of opening of the tender. In the case of successful tenderer, the approved prices shall remain valid till Purchase Order is fully executed. The bidder shall not withdraw or modify their Bids during the period of validity.

#### 2. Tender Form Fee

A complete set of tender documents may be downloaded by interested eligible tenderer.

For MSME registered Firms are exempted from tender form fee.

### MSME registered firm shall submit copy of MSME UDYAM registration certificate.

The tender form fee and EMD to be paid by two separate Demand Drafts and kept in two sealed envelopes. For physical submission, the two envelopes along with Technical document should be kept in one envelope superscribed "To supply, install and commissioning of **Data Acquisition System 100 Hz and accessories** -Technical bid" so as to reach CIRT, Pune by 01/07/2024 upto 17.30 of bid submission. Late tenders shall not be accepted, under any circumstances. The technical bid shall be opened as per schedule at CIRT Office, Pune in the presence of bidders who may like to be present.

#### 3. Eligibility criteria of bidder

S.NO	TECHNICAL ELIGIBILITY CRITERIA	SUPPORTING DOCUMENTS TO BE SUBMITTED BY BIDDER
1	Bidder must be registered as per the relevant Act (e.g. Companies Act or Partnership Act or any other relevant Act) in India or as per the country of registration.	Copy of Certificate of Incorporation (Copy of registration certificate under Company Act) or (Copy of registration, under Partnership Act) or equivalent document, as applicable, issued by a Competent Government Authority to be submitted by bidder.
2	Bidder must be class I or class II local supplier Or Non-Local supplier as per order no. P45021/2/2017-PP (BE II) dated 16.9.2020 of MoCI, GOI, P-45021/102/2019-BE-II Part(1) (E-50310) dated 04.03.2021 and latest amendments, if any.	Declaration is to be submitted by Class I and Class II suppliers in Technical bid as per the Annexure J and by Non-Local Suppliers as per Annexure J1 of this tender.
3	Bidder must be Original Test Equipment manufacturer (OEM) / Authorized Distributors of Test Equipment Manufacturers, with valid authorization letter of Test equipment Manufacturer with Average annual turnover of the Data Acquisition System 100Hz and accessories manufacturer in the 3 (three) financial years (FY 2021-22, FY 2022-23 and FY 2023-24) shall be at-least Indian Rupees	Copy of the audited annual accounts of the Original Test Equipment manufacturer (OEM) & Authorized Distributors for each of the three financial years (FY 2021-22,FY 2022-23 and FY 2023-24,) and a certificate (on the letter head) of the Statutory Auditor of Original Test Equipment manufacturer (OEM) & Authorized Distributors duly signed & stamped and clearly mentioning the turnover details of each year in the three financial years (FY 2021-22, FY 2022-23 and FY 2023-24) Details to be submitted as per Annexure B

Twenty **Five** crore and Average annual turnover of the Authorized Distributors in the 3 (three) financial years (FY 2021-22, FY 2022-23 and FY 2023-24) shall be at-least Indian Rupees Ten crore.

For MSME register firms Average annual turnover in the 3(three) financial years (FY 2021-22, FY 2022-23 and FY 2023-24) shall be as per MSME norms.

4 Bidder / principal (in case the bid is submitted by authorized distributor) should have minimum Seven years of experience of manufacturing of Data Acquisition System 100Hz and accessories as per Technical Specification given at Annexure F and bidder should have sold at least Ten no's of Data Acquisition **System** 100 Hz and equipment's in accessories last seven years to Test Agencies approved under Rule 126 of CMVR in India.

The bidder shall submit following information. along with documentary evidence such as Copy of contract and/or work order or purchase order and copy of delivery challan and invoice for the Ten sold equipments.

Details to be submitted as per Table 2 (pg 6) and Annexure C

- Hz and accessories in last 7 vears.
  - 2. The bidder shall submit the letter from at least two such purchaser (Authorized Agency under CMV Rule 126) who have purchased the Data Acquisition System 100 Hz and accessories as per Technical Specification given at Annexure F during last 7 years on the letter head of purchaser about the present satisfactory operation of the sold Data

 Bidder shall submit the list ofl1. List of clients to whom bidder have sold the clients to whom they have sold Data Acquisition System 100 Hz and the Data Acquisition System 100 accessories in last 7 years in following format:

Sr. No	Name & address	Name of the	Email ID of	Contact number/	Presently the
NO	of the purchaser	contact	purchaser	Mobile number of purchaser	machine is operating satisfactory please mention (Yes/ NO)

2. The Letters from seven purchasers during last 7 years on the letterhead of the purchaser about satisfactory operation of Data Acquisition System 100 Hz and accessories presently as per **Annexure** K.

	Acquisition System 100 Hz and accessories.	
6	Bidder should have GST registration and valid PAN documents	Valid GST registration Certificate, PAN documents shall be submitted.
7	blacklisted / terminated for fraudulent practices or for non- fulfilment of contract by any of its clients including Indian government /State Government departments / Ministries / Government Undertakings or	Self-certification undertaking signed by the Authorized Signatory of the bidder on the Bidder's letter head. Details to be submitted as per <b>Annexure D.</b> In Case the tender is submitted by authorized Distributor, Self-certification undertaking is to be submitted by both the Original equipment manufacturer and the authorized distributor.

#### Note:

- It is mandatory to submit the specified documents in support of the above Technical Eligibility Criteria and the Bidder shall be disqualified, if the bidder fails to provide any of the above specified documents.
- 2. Bidders should necessarily give the details in the formats given in Annexure/forms of this tender. All the details should be given in the prescribed format only and in accordance to the terms and conditions as mentioned in this tender.
- 3. Bid should be comprehensive and must consider the Scope of Work to be completed.
- 4. CIRT at its sole discretion may seek clarifications from any Bidder on the Technical Eligibility Criteria and any information submitted in his Bid.
- 5. Any Bidder submitting any information regarding price/financial quote in his Technical Bid shall be disqualified from the Bidding Process.
- 6. For the authorized distributor of manufactures pertaining to countries, sharing land border with India, the manufacture should have registration certificate of appropriate Competent authority of Government of India, as per the applicable statutory Government of India rules. The copy of valid certificate shall be submitted along with tender.
- 7. Bidder will have to give technical presentation of their quoted equipment during technical evaluation of bid. CIRT shall communicate the date of presentation. Cost of travel for Technical Presentation at CIRT for bidder representative will be on bidders account.
- 8. CIRT will visit the units of earlier purchasers of **Data Acquisition System 100 Hz and accessories** to whom the bidder has supplied the same for inspection and feedback. Any

- shortcomings observed for the operations of Data Acquisition System 100 Hz and accessories, in such inspection will render the technical bid of bidder liable for the rejection. The cost of travel for such inspection will be on CIRT's account.
- 9. Bidders should submit supporting documents like Installation and commissioning report, copies of PO of purchasers during last 7 years and all other documents listed above with technical bid. This will be verified before evaluating technical specifications. In case bidder does not meet the criteria or CIRT come across any information about negative feedback from their purchasers then the bid will be not considered for further evaluation and shall be rejected.

#### 4. Terms and conditions for Submission of Tender document

- a) Bidders should submit their Technical Bid physically and online on the e-tender portal. Commercial Bid should be submitted only online on e-tender portal as per tender schedule. Bidders are also requested to submit their Tender form fee and EMD vide Demand Draft in two separately sealed envelopes superscribed as "Tender No: ADM: STR: 3172:DAS:2024-25" and "Tender title Supply, install and commissioning of Data Acquisition System 100Hz and accessories" and each one appropriately identified as "Tender Form Fee", "EMD" as applicable.
- b) These two sealed envelopes along with the Technical documents are to be put in one larger envelope and sealed. This envelope is to be marked as Title: TECHNICAL BID FOR to Supply, Install and Commissioning of Data Acquisition System 100 Hz and accessories, Tender form fee, and EMD for Tender No. ADM: STR: 3172:DAS:2024-25
- **c)** The Tender document shall be addressed to "The Director, Central Institute of Road Transport, Pune" and submitted to the Head-ASD, Administration Division, CIRT by post or courier on or before due date and time.
- **d)** The bids of applicants who physically submit their Commercial bid along with the physical technical bid shall be rejected.
- e) CIRT, Pune may, at its discretion, may extend the deadline for the submission of bids by amending the Tender Documents, in which case all rights and obligations of CIRT, Pune and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended. The prospective Bidders are advised to remain in touch with CIRT website for any update in respect of their tender.
- f) All pages of original bid and all copies of the bid shall be signed by a person duly authorized to sign on behalf of the Bidder. The written confirmation of authorization (in form of letter on the Bidder's letter head) to sign on behalf of the Bidder confirming

the signature as a person duly authorized to sign should be attached with the technical bid of the tender.

**Opening of Tender:** Only Technical Bids will be opened on the stipulated opening date/time in presence of tenderers or their representatives whosoever may like to be present. Commercial bids of those who are technically qualified after scrutiny of technical suitability/acceptance of the technical bid will be opened at a later date. The communication in this regard will be sent to the technically qualified bidders by CIRT. The L1 bidder shall be selected on the basis of final cost of equipment, accessories, including all taxes excluding AMC charges

**Rejection of tender due to late submission:** Late / delayed and incomplete tender will be rejected. CIRT <u>shall not be responsible</u> for any delays in transit or otherwise due to postal and/or any other reason.

**5. Pre Bid Meeting:** Tenderers are requested to send their queries, if any, on tender documents to CIRT by post or by email at id: <a href="mailto:stores@cirtindia.com">stores@cirtindia.com</a>. The time schedule for receipt of queries and date and time of pre-bidding will be as instructed at **Tender Document submission – a brief, page no. 3.** If a bidder does not participate or submit any query, then no subsequent representations from them regarding the Technical specifications and term and conditions shall be entertained. CIRT, if required, shall issue Addendum / Corrigendum to Tender documents which, if issued, will be considered as part of Tender documents. Bidders will have to take cognizance of these Addendum / Corrigendum issued and submit Addendum / Corrigendum duly signed by Authorised Signatory of Bidder and stamped with Company Seal along with original Tender document. In case Bidder fails to do so, his tender will be outrightly rejected. If required, Bidders will be requested to give a technical presentation to CIRT after the Technical Bid opening.

#### 6. CIRT's Right to Accept Any Bid and to Reject Any or All Bids:

- 1. The Director, C.I.R.T. reserves the right to <u>reject any or all the tenders or partially</u> accept or reject any or all the tenders without assigning any reasons.
- 2. The Director, CIRT reserves the <u>right to reject any or all tenders</u> in case the tenderers have put in their own terms & conditions.
- 3. The Director, CIRT reserves the right to accept or reject any bid, and to cancel the bidding process and reject all bids at any time prior to placing purchase order/contract award, without thereby incurring any liability to Bidders.

- 4. In case of any dispute, on any account related to the said tender & or any activity related thereto, the Director, CIRT's decision will be final and binding on the tenderers.
- 5. In case of cancellation of tender, EMD submitted by tenderers shall be returned to the Bidders.

#### Chapter 2 Conditions of the Tender

#### 1. Pre dispatch Inspection

Pre-Dispatch Inspection of the equipment shall be carried out by CIRT personnel and the expenditure towards the same shall be borne by the OEM. For non-local suppliers if possible CIRT personnel will inspect the test equipment at bidder's Indian office, or at CIRT premises if the bidder qualifies. If PDI is done at CIRT premises, and if has any deficiency or deficiencies found during Installation & Commissioning then consignment will be rejected.

#### 2. Delivery

(A) Equipment/ Test Rigs shall be supplied to CIRT within a period of 60 days from the date of acceptance of P. O. The test equipment and its allied systems, subsystems, computers, software's, other accessories as applicable shall be delivered to CIRT on DOOR DELIVERY basis at F.O.B. prices, without any additional cost to CIRT. All Incidental Charges shall be borne by successful bidder.

For Foreign Vendor – The rates shall be quoted for door delivery basis at CIRT, Pune with transit Insurance covering all type of risks during transit from vendor's works to final Destination i.e. CIRT premises at Pune-411026 (India) Custom duty shall be borne by CIRT.

The Bidder shall provide suitable packing of the test machine/ test equipment, as is required to prevent their damage without limitation, rough handling during transit. In case the consignment is received with damaged packaging, the CIRT, Pune will not accept the delivery.

The test equipment / test machine and all the supplied parts shall be secured and protected from mechanical damage, moisture etc., suitable for both storage and transit according to the nature of the material and mode of transport. The Bidder shall be responsible for any loss/ damage during transportation to the designated location.

(B) Penalty for delayed delivery: A penalty @ 1.0 % of the total cost of the test equipment will be charged to the OEM/successful bidder per week or part thereof of delayed delivery subject to maximum Thirty (30) days after expiry of scheduled

delivery date. After that the Purchase Order shall be cancelled and EMD will be forfeited. Bank guarantee obtained for advance payment made to bidder will be encashed. Bidder will be debarred from participation in any future tenders.

- 3. Installation & Commissioning of the equipment at CIRT site shall be carried out by the successful bidder on FREE OF COST basis, within a maximum period of 30 days from the date of arrival of the consignment at CIRT. Beyond 30 days, penalty for delayed installation and commissioning @ 1% of the total cost of the equipment will be charged to the OEM/successful bidder per week or part thereof subject to a maximum 10% of cost of the equipment and subject to maximum period of 45 days, failing which EMD will be forfeited.
- (A) Successful bidder shall be responsible for the safe Supply , installation/commissioning of the equipment. NABL Calibration certificates issued by OEMs who are the manufacturer of OES, traceable to national / international standard with necessary documentation shall be provided for the test equipment.
- (B) The Bidder shall not arrange part shipments and/or trans-shipments without the permission of CIRT, Pune. The insurance cover including insuring the goods against the loss or damage incidental to manufacture or acquisition, transportation, storage and delivery/installation & commissioning shall be obtained by the Bidder in his own name and not in the name of CIRT, Pune.
- 4. Performance Bank Guarantee valid for 3 years to ensure the fulfilment of warranty obligation shall be provided for 10 % Value of the total cost of equipment (10 % CIF Cost in the case of foreign vendors) (A specimen format of Bank Guarantee will be provided along with the Purchase Order). We shall accept a Bank Guarantee of a foreign bank having a branch in India. The Bank Guarantee to be in Indian Rupees only. In case of non-performance and violation of terms and conditions by the supplier the performance bank guarantee will be revoked.
- 5. Warranty: The offered equipment/ item/material/spares/ computers/software/ utilities shall strictly conform to the specifications & must be guaranteed for satisfactory performance & against manufacturing and other defects at least for a minimum period of 3 year (Comprehensive) including preventive and breakdown maintenance from the date of commissioning of test equipment/ item /material / spares /computers/software at CIRT. During the warranty period the successful bidder shall carry out the maintenance of the equipment free of cost.

- (a) Free replacement of defective spares/rectification of any defective components of the item during warranty period should be arranged ON FREE OF COST on DOOR DELIVERY BASIS and installation thereof. All expenditure for door delivery such as freight, insurance, taxes, any other duties, customs duty & clearance charges (in the cases of imported items) towards replacement shall be borne by the successful bidder.
- **(b)** Service call charges including all incidental charges, will not be applicable for the services provided by bidder during the warranty period (one year).
- (c) Bidder shall have to make arrangement for the collection of defective spares. CIRT will not bear any expenditure for returning the defective spares. Defective spares or parts of equipment rejected on inspection or during warranty period shall be replaced within a week.
- (d) CIRT will not be responsible for the safe custody of such stores beyond 60 days for any loss/damage to the rejected stores. CIRT also reserves the right to dispose such defective spares.
- (e) Penalty for delayed delivery of spares during warranty period will be @ 1% of the total cost of the spare parts to be replaced which will be charged to the successful bidder per week or part thereof subject to a maximum 10% of cost of the spares to be replaced.
- (f) If the spare parts are not replaced within 45 days of communication from CIRT, CIRT reserves the right to impose penalty appropriately.
- (g) During the warranty period, service personnel shall be deputed at site by the Bidder within three working days from the date of request from CIRT, Pune to rectify and fixing the defects of machine at the location where machine(s) are supplied. The cost of deputation of service personnel and any other associated expenditure shall be borne by the Bidder.
- (h) The Bidder to supply three (03) sets of the following manuals in hard copy and soft copy along with supplied machine(s):
- i. Installation Manual
- ii. Operation Manual
- iii. Maintenance and Trouble Shooting Manual

Note: All manuals shall be latest and duly signed/stamped by the bidder.

6. Extension of Warranty: During warranty period the service personnel shall attend the service calls and replace / repair the equipment. If the equipment is not put into operation within a week in case of minor breakdown and a month in case of major break down, then warranty period will be extended by number of days equivalent to five times the delayed days beyond the specified period of 03 year.

#### 7. Customer Service Support (During and after Warranty period)

Customer Service Support shall be provided for minimum period of 10 years including minimum warranty period of 3 year from date of installation and commissioning of equipment. In case bidder is test equipment manufacturer, the undertaking from equipment manufacturer shall be submitted as per Annexure H and in case, bid is submitted by authorized distributor of test equipment manufacturer then test equipment manufacturer shall submit the undertaking as per Annexure I.

a) Annual Maintenance Contract: It is the mutual decision of CIRT and successful bidder to enter into Annual Maintenance Contract (AMC) for after-sales service after warranty period. Bidders should give the Annual Maintenance Contract charges for 7 years after warranty period of 3 years.

Manufacturer shall quote the comprehensive annual maintenance cost separately, after lapse of warranty period of Three (3) year for next Seven (7) years, year-wise considering the utilization of machine in 10 years as a normal use.

Annual Maintenance Contract can be terminated at any time and it will be at the discretion of Director, CIRT, Pune.

The quoted AMC charges shall not be considered for financial evaluation for selection of L1 bidder. Selection of L1 bidder will be on the basis of final cost of equipment and accessories quoted including taxes.

- b) Service Call attendance The successful bidder's service personnel shall attend the service calls and replace/ repair the equipment within 48 hours, If no spares are required to be imported. If import of spares is required, the vendors shall supply such spares, if required and asked for by CIRT, within the delivery period quoted there on.
- c) Spares Back up Tenderer should give guarantee for the supply of spares for the next 7 years after warranty period. All the spares used in the equipment shall

be easily available and replaceable. Manufacturer / Bidder shall provide the list of spares.

- d) Cost of Spares replaced In Case CIRT do not enter into a comprehensive AMC contract the cost of spares replaced, after minimum warranty period of three year, shall be billed to CIRT as per the price list provided along with the dispatch documents of the equipment at time of acceptance of Purchase Order. Reduction in prices of items, if any, shall be immediately communicated to CIRT and same shall be made applicable to the spares replaced after minimum period of three year of warranty.
- e) Penalty for delayed delivery for such replacement items shall be as stated at 2 (B) above.
- Service Support Bank Guarantee after Warranty Period -Customer Service Support Bank Guarantee for 3% of the CIF Value of the test equipment shall be provided by the Bidder two months before the expiry of Performance Bank Guarantee issued towards initial warranty period of Three (3) year to ensure the fulfillment of Customer Service Support for a further period of Seven (7) years. However, if the bank guarantee is for shorter period than the period of 7 years, the same shall be renewed further for every such period, 2 months before expiry of existing bank guarantee to roll it over for up to a period of Seven years.

  (A specimen format of the Bank guarantee will be provided along with the Purchase Order.)

#### 8. Training of CIRT personnel and officials

OEM/Successful Bidder shall provide free training to CIRT Personnel after successful installation and commissioning.

Training to the CIRT officials shall be given for five **(5) working days** wherein the training shall be about operations, instructions, maintenance as well as trouble shooting & all other areas which are necessary for smooth functioning of Machine. Training shall be provided to at least Four persons designated by CIRT, Pune. Training for the CIRT personnel shall be free of cost.

#### 9. Recovery of damages

a) The Director, C.I.RT. reserves the right to recover the amount of loss incurred to C.I.R.T., if any due to non-execution of order / non-supply of test equipment, damaged / short supply/ wrong supply/ delayed delivery in any part or full of the equipment, from the dues of the tenderer.

#### b) Recovery of Estimated damages or Shortfall:

- (i) Supplier should abide by and be responsible for the test equipment supplied to CIRT, and if test equipment/part/computer/software of the test equipment is not found or damaged or deficient, without prejudice or shortfall as per the technical specifications or shortfall with accessories may lead to rejection of test equipment by CIRT.
- (ii) The supplier shall abide for any recovery against shortfall in the supplies.

#### 10. Authorized agency for Technical Services:

If bidder has an authorized agency / distributor for technical services, then same shall be declared while furnishing the Technical Bid. Such agency shall be associated with Bidder for minimum 7 years and have expertise of installation, maintenance & repair in most effective manner. However, overall responsibility of providing technical service lies with the bidder/supplier/OEM. Authorization. certificate from the manufacturer for the dealership / distributorship / stockist status should be attached with the tender.

**11. Pending Litigation cases** if any, with CIRT in the court of law against any of the prospective bidder, will render particular bidder/Joint Ventures of the particular bidder to be disqualified for participation in Tender.

#### 12. Arbitration, Legal formalities Arbitration:

Any dispute arising during the contract period of Ten years and the procedure pertaining to administration <u>or</u> financial <u>or</u> technical issues shall be referred to the Technical Advisory Committee headed by the Director, CIRT to resolve the issues. The decision of Director, CIRT will be final in this regard.

In case of dispute between both the parties, same will be referred to the Sole Arbitrator for the Arbitration Proceeding as per Arbitration and Conciliation Act, 1996 as amended by Arbitration and Conciliation (Amendment) Act, 2015. The Arbitrator will be appointed by CIRT or with consent of both parties. The venue of

the arbitration proceeding will be at Pune and the cost of arbitration proceeding will be borne by each of the party as to 50%. The language of the Arbitration Proceeding will be in English. The District Court at Pune will have the administrative jurisdiction for the Civil and Arbitration Proceeding.

In case of non-settlement of disputes through arbitration, the appropriate Indian Laws will prevail.

#### 13. Demonstration of Instruments.

CIRT may request the bidder to demonstrate instruments for their actual application on-site.

#### 14. Force Majeure Clause:

The services of both parties are subject to FORCE MAJEURE condition. While every effort will be made to carry out the obligation of the contract, the successful bidder / CIRT will not be liable for non-performance either in whole or in part of the contract for any delay in performance thereof in consequences of the Force Majeure Event such as Acts of GOD, Floods, War, Pandemic situation (if declared by Central / State Government) or any other cause beyond control. The decision of Director CIRT will be final in this regard.

#### **Chapter 3** Schedule of Requirements

#### 1. Pricing:

#### a) For Bidders in India

Price quoted shall be on the basis of "Door Delivery" at CIRT Bhosari, Pune-411026 F.O.R. destination. All incidental charges such as packing,

forwarding, freight and transit insurance charges shall be borne by successful bidder.

#### b) For foreign bidders

Price quoted shall be on basis of "Door delivery" at CIRT Bhosari Pune - 411026 F.O.R. destination with transit insurance coverage up to destination (CIRT Bhosari, PUNE 411026, premises)

#### c) Price & Payment

- Price shall be quoted in INR only. If there is a discrepancy between words and figures, the amount in words shall prevail.
- ii) If the bidder is from overseas countries, then Bidders are requested to quote in **Indian Rupees only.**

Note: Price should be quoted only in "Commercial Bid"

#### 2. Schedule of Payment:

- a) 10% advance along with Purchase Order on submission of Bank Guarantee for equivalent amount, of validity of 12 months.
- b) 20 % against delivery and post preliminary inspection at CIRT, Pune.
- c) 70 % after successful installation, commissioning, training and satisfactory inspection report of the equipment and after receipt of the Performance Bank Guarantee valid for 3½ years to ensure the fulfilment of warranty obligation. (for 10 % Value of the total cost of equipment (10% CIF Cost in the case of foreign vendors).

#### 3. Taxes & Duties:

- a. The rates of G.S.T. or any other taxes, if chargeable, shall be indicated separately or else it will be presumed that the quoted price is inclusive of taxes.
- b. Customs Duty: CIRT will avail Custom Duty Exemption, as applicable, under Government Notification No. 51/96-Customs dated 23.07.1996, No. 24/2007-Customs dated 01.03.2007; No.43/2017-Customs dated 30.6.2017 being Scientific and Industrial Research Organizations (SIRO) recognized R&D Institution. However, the tenderer should quote the application rate of Custom Duty, if any, in the appropriate column for information.

#### Chapter 4 Specification & Allied technical details

#### Specification:

- 1) **Technical Specification:** Data Acquisition System 100 Hz and accessories shall be in compliance to the Technical Specification as enclosed at **Annexure-F**
- 2)Complete specification of the Testing Equipment's offered shall clearly be specified. Basic equipment shall be the equipment capable to perform required basic functions asked for. Brand name, Trade name, Model No., part No. Item description etc. shall be described clearly in the bid. Printed technical literature / catalogue stating all the technical parameters must be enclosed along with the bid, failing which the tender will be rejected. Rates shall be quoted separately for the basic equipment, add on/optional equipment's. Offers having confused technical specifications, terms and conditions and prices will be liable to be rejected.
- 3)Pre-requisite Infrastructure Requirements for Installation & Commissioning of the machine Bidder shall submit the details of Pre-requisite /Civil/Electrical/Any other Infrastructure requirements for installation & commissioning of the Testing Equipment Data Acquisition System 100 Hz and accessories as per the enclosed Annexure E.

Chapter 5 Price Schedule for bidders to quote prices

## CENTRAL INSTITUTE OF ROAD TRANSPORT

Post Box No.1897, Bhosari, PUNE - 411 026 (INDIA)

Tel.: (020) 67345300 (30 Channels) Fax: (020) 67345403

Website: www.cirtindia.com

TENDER DOCUMENTS

Part B - Commercial Bid

**TENDER NO**: ADM: STR: 3172:DAS:2024-25

**ITEM** Data Acquisition System 100 Hz and accessories

**EMD** As per Tender Document.

- 1. Commercial bid is to be submitted online only.
- 2. Hardcopy not to be submitted.
- 3. Please enter the values in yellow cell only.





## **Central Institute of Road Transport**

NIT No. ADM: STR: 3172: DAS:2024-25

Name of Work: Supply, installation and commissioning of Data Acquisition System 100 Hz

and accessories

### **SCHEDULE OF ITEMS**

Name of the Bidder

**Price Schedule Summary** 

		Thee believoic bollinary					
Sr. No.	Description	Total Amt. with Tax in INR.					
1.0	Price Schedule -1 including Taxes & Duties	0					
2.0	Total (Price Schedule 1)	0					
3.0							

#### Price Schedules - 1



# **Central Institute of Road Transport**



NIT No. ADM: STR: 3172:DAS:2024-25

#### Name of Work: Supply, installation and commissioning of Data **Acquisition System 100 Hz and accessories** SCHEDULE OF ITEMS Name of the Bidder Price Schedule - 1 Rate Amt. in Add Tax Total Sr. Qty Tax **Amount** per INR Amt. **Test Equipment** No. Unit in Excl. of % with INR Taxes Tax 1.0 Supply, installation and commissioning of Data Acquisition System 100 Hz and accessories as specified in the Technical Specification (Annexure F) for undertaking brake test, speedometer calibration test, Speed limiting function test, Coast down test, Set Constant Speed Fuel Consumption Test, Acceleration Test and Maximum speed Test on Vehicles for testing & certification of all category of vehicles including all category of electric vehicles. 2.0 Custom Duties, if applicable 3.0 Other taxes if any 4.0 Total of Price Schedule -1 including 0 above Taxes 5.0 Total in Words Instructions: Please enter the values in yellow cell only. Please fill the Price Schedule 1 and Price Schedule 2. Filling up of Price Schedule is mandatory else Commercial Bid will be disqualified.

#### Price Schedules - 2

Commercial bid is to be submitted online only.

The total price should be F.O.R. destination.

Hardcopy not to be submitted.



# **Central Institute of Road Transport**



NIT No. ADM: STR: 3172: DAS:2024-25

Name of Work: Supply, installation and commissioning of Data Acquisition System 100 Hz and accessories

SCHEDULE OF ITEMS								
	Name of the Bidder							
	Price Schedule - 2							
Sr. No.	Test Facility For	Amt. in INR Excl. of Taxes	Add Tax %	Tax Amount	Total Amt. with Tax			
	Annual Maintenanc	e Contrac	t (AMC	<b>C)</b>				
1	(Comprehensive Annual Maintenance Cost year-wise after lapse of warrantee period of 3 year as per the terms & condition of tender)							
1.1	AMC (Comprehensive) in 4th year			0	0			
1.2	AMC (Comprehensive) in 5th year			0	0			
1.3	AMC (Comprehensive) in 6 <sup>th</sup> year			0	0			
1.4	AMC (Comprehensive) in 7th year			0	0			
1.5	AMC (Comprehensive) in 8th year			0	0			
1.6	AMC (Comprehensive) in 9th year			0	0			
1.7	AMC (Comprehensive) in 10th year			0	0			
1.8	AMC (Comprehensive) in 11th year							
1.9	AMC (Comprehensive) in 12th year							
Instru	ections:							
1	Please fill the Price Schedule 1 and Price Schedule 2. Commercial Bid will be disqualified.	Filling up of F	rice Sch	edule is manda	atory else			
2	Commercial bid is to be submitted online only.							
3	Hardcopy not to be submitted.							
4	Please enter the values in yellow cell only.							

#### Note:

- 1) AMC Price: Price shall be quoted in Indian Rupees only.
- 2) If the bidder is from overseas countries, then Bidders are requested to quote in Indian Rupees.
- 3) At the time of submission of Financial Bid, every bidder has to quote AMC rates in given format for 7 years which will be effected after 3 year of warranty period, if CIRT enters into AMC Agreement with the bidder.

#### Annexure A

#### **Prebid Queries format**

Name of Organization: \_\_\_\_\_\_ Date: \_\_\_\_\_\_

Tender Title : Supply , Installation & Commissioning of Data Acquisition System 100 Hz and accessories

**Tender No.:** ADM: STR: 3172:DAS:2024-25

SI. No.	Page no.	Clause no.	Clause	Suggestion / Query	
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• Email to be sent to <a href="mailto:stores@cirtindia.com">stores@cirtindia.com</a> in pdf format.

#### Annexure-B

FINANCIAL DETAILS OF THE ORIGINAL TEST EQUIPMENT MANUFACTURER (OEM) / Authorized Distributors

(On the letter head of Statutory Auditor of the Original Test Equipment manufacturer (OEM))/ Authorized Distributors

Annual Turnover in	Average Annual Turnover		
Year 1	Year 2	Year 3	(FY 2021-22, FY 2022-23 and FY 2023-2024) in INR
(FY 2021-22)	(FY 2022-23)	(FY 2023-24)	

(1 1 2021 22)	(1 1 2022 23)	(1 1 2023 24)	
Date:			
Name of the Bidder:			
Name of the audit firm	n:		
Seal of the audit firm (signature, name and	designation of the auth	orized signatory)	
Registration Number:	Address of the audit f	irm: UDIN No.:	
Seal of the Bidder (signature, name and	designation of the auth	orized signatory)	

## Annexure C

### **BIDDER INFORMATION SHEET**

1	Name & Full Address of the firm
	(If there is a separate address for manufacturing unit/sales
	office/ godown, please mention specifically)
2	Telephone/Telex/Fax/E-Mail/mobile number
3	Name of contact person[s]/Representative
	Telephone/ Fax/ e-mail/mobile number

4	Whether your firm is registered under Shop Act/ SSI Unit/	
	Other categories [specify and attach relevant documents]	
5	Product/Supply Range	
	[Please specify brand/make dealt by your firm]	
	Technical literature/brochures/leaflets are to be attached	
	for technical product.	
	Pl. attach separate sheet, if space provided is insufficient.	
7	Reputed clients' list of your firm:	[Pl. enclose separate sheet]
	[preferably in and around Pune & Maharashtra, if you	
	are a local vendor]	
8	Number of Equipment Sold in last Seven years	
9	Purchase order ; Year of supply ; delivery challan;	
	Invoice (Please provide copies of the documents for	
	the sold equipment)	
10	Bank details	
	Name of the Beneficiary & Address	
	Name of Bank & Address	
	Account No.	
	Branch Code	
	IFSC Code	
	MICR Code	
	SWIFT Code / Routing No.	
11	GST IN No.	
12	HSN Code	
Seal		
		(Signature of Authorised Person)
Date:		Name
		Designation

## Annexure D

#### **ANTI-BLACKLISTING CERTIFICATE**

(To be Submitted on the letterhead of the Test equipment manufacturer and/ or Authorized distributor as the case may be)

I / We hereby certify and confirm that M/s (Name of the Bidder) that the
company/ any of the promoter/s / director/s are not blacklisted or barred by Government of India
(GOI) / any other entity of GOI or any state government/department / local government / agency
in India or from abroad from participating in Project/s, either individually or as member of a
Consortium as on the (Bid Due Date).
We further confirm that we are aware that our tender will be liable for rejection and EMD will
be forfeited, in case any material misrepresentation is made or discovered with regard to the
requirements of this tender at any stage of the Bidding Process or thereafter during the

Yours faithfully,

agreement period.

(Signature, name and designation of the authorised signatory) For and on behalf of ......

### Annexure-E

Pre-requisite Infrastructure Requirements for Installation & Commissioning for the Data Acquisition System 100 Hz and accessories

S.N.	Description	Requirement
1.0	Civil Infrastructure -	

Test equipment/ machine store area	
requirement	
Fire Protection facilities (devices) if	
any	
Any other specific requirement	
Electrical Infrastructure -	
Provision of Internet for test	
equipment/ machine	
Specific air conditioning	
Safety requirements	
Miscellaneous	
Provision of power, air, light, water,	
etc, as required during installation.	
Any other specific requirements	
	requirement  Fire Protection facilities (devices) if any  Any other specific requirement  Electrical Infrastructure -  Provision of Internet for test equipment/ machine  Specific air conditioning  Safety requirements  Miscellaneous  Provision of power, air, light, water, etc, as required during installation.

#### **ANNEXURE - F**

#### A) TECHNICAL SPECIFICATIONS FOR Data Acquisition System 100 Hz AND ACCESSORIES

**A. Scope :** Supply , Installation & Commissioning of Data Acquisition System 100 Hz and accessories shall be able to undertake the brake test, speedometer calibration test, Speed limiting function test , Coast down test, Constant Speed Fuel Consumption Test, Acceleration Test and Maximum speed Test for testing & certification of all category of vehicles including all category of electric vehicles .

#### B. Data Acquisition System 100 Hz and accessories shall have following Features:

Sr No.		Details	
1.	Dat	ta Acquisition System 100Hz	
	a	Data Acquisition System: GNSS Data logger	
		Sampling Rate: maximum 100 Hz	

Communication Port:  i. USB Interface ii. Bluetooth Interface iii. CAN Interface iii. CAN Interface Operating Voltage:12VDC External Battery power pack with charging facility i. Lithium-ion (Minimum 6AH) ii. Charger with 2W Plug In built Memory Card (Minimum 4GB)  b Display Multi-Function Touch Colour Display minimum 4" Audio and Visual Alerts (Inbuilt Speaker and LED indicator) Configurable for minimum 6 channels simultaneously Windscreen Suction Mount for use with PB TouchTouch products  2. Technical Specifications: Dimensions/Accuracy/Resolution  a Range Velocity: 0.1 kmph Distance:0.05% Resolution Velocity: 0.1 kmph Distance:0.05% Resolution Velocity: 0.1 kmph Distance:0.01 m Time:0.01s  b Analogue input channels with minimum 0 -10 VDC input range c Frequency and Pulse Counter 04 input channels for Frequency and Pulse Counter input d Thermocouple Interface 08 Channel K-Type Thermocouple e External CAN Bus Minimum 16 channels of user definable CAN Signal from vehicle CAN bus Minimum 16 channels of user definable CAN Signal from vehicle CAN bus 1 Trigger Input Channels-Minimum 0.1 Channel Bruke and Event Trigger with Trigger g Other Input / Outputs 2 Analogue outputs, 2 Digital outputs, 4 Analogue inputs, 4 Digital Inputs 2 CAN ports and Serial output Integrated Bluetooth, USB and RS232 serial output plus audio input h Provided with CAN data set along with all the accessories and parts such as: i. Mains Power Supply 2W Plug. ii. Cigar Plug – minimum 2m cable (Power) Screened iii. GPS:Glonass Low Profile Antenna (no ground plane) with detachable SMA-SMA cable - minimum 4m iv. Antenna Cable non-hex SMA to non-hex SMA Connector – minimum 4m vi. USB multi card reader vii. SWP Ug. 9-W D Socket – minimum 2m cable (USB Configuration) x 4 Channel analogue input interface - 25W D-connector to 4 x BNC + Power xi. Audio Headset xii. SWP Ug minimum 2m cable (Module PWR-CAN) xiii. 4GB Compact Flash Card xv. SW Pulg30 en minimum, xvi. Padded Carry Case (INo)			T.	
iii. CAN Interface iii. CAN Interface iii. CAN Interface Operating Voltage:12VDC External Battery power pack with charging facility i. Lithium-ion (Minimum 6AH) iii. Charger with 2W Plug In built Memory Card (Minimum 4GB)  b Display Multi-Function Touch Colour Display minimum 4** Audio and Visual Alerts (Inbuilt Speaker and LED indicator) Configurable for minimum 6 channels simultaneously Windscreen Suction Mount for use with PB Touch/Touch products  2. Technical Specifications: Dimensions/Accuracy/ Resolution a Range Velocity:0 to 300 kmph minimum Accuracy Velocity:0 to 18 kmph Distance:0.05% Resolution Velocity: 0.01 kmph Distance:0.01m Time:0.01s  b Analogue input channels with minimum 0 -10 VDC input range c Frequency and Pulse Counter 04 input channels for Frequency and Pulse Counter input d Thermocouple Interface 08 Channel K- Type Thermocouple e External CAN Bus Minimum 16 channels of user definable CAN Signal from vehicle CAN bus f Trigger Input Channels-Minimum 01 Channel Brake and Event Trigger with Trigger g Other Input / Chaptels 2 Analogue outputs, 2 Digital outputs, 4 Analogue inputs A Digital Inputs 2 CAN ports and Serial output Integrated Bluetooth, USB and RS232 serial output plus audio input  h Provided with CAN data set along with all the accessories and parts such as: i. Mains Power Supply 2W Plug. ii. Cigar Plug – minimum 2m cable (Power) Screened iii. GPS (Glonass Low Profile Antenna (no ground plane) with detachable SMA-SMA cable — minimum 4m iv. Antenna Cable non-hex SMA to non-hex SMA Connector — minimum 4m v. Bluetooth Antenna vi. USB multi card reader vii. SW Plug - 9W D Socket — minimum 2m cable (USB Configuration) viii. 25 Way D Cosmector ix. USB A - USB Mini B — minimum 2m cable (USB Configuration) viii. 25 Way D Cosmector ix. USB A - USB Mini B — minimum 2m cable (USB Configuration) viii. 40 Rocompact Flash Card viv. 8GB SD Ultima Pro UHS-1 Memory Card viv. 8GB SD Ultima Pro UHS-1 Memory Card viv. Padded Carry Case (Ino)				
iii. CAN Interface Operating Voltage:12VDC External Battery power pack with charging facility i. Lithium-ion (Minimum 6AH) iii. Charger with 2W Plug In built Memory Card (Minimum 4GB)  b Display Multi-Function Touch Colour Display minimum 4" Audio and Visual Alerts (Inbuilt Speaker and LED indicator) Configurable for minimum 6 channels simultaneously Windscreen Suction Mount for use with PB Touch/Touch products  2. Technical Specifications: Dimensions/Accuracy/ Resolution a Range Velocity: 0 to 300 kmph minimum Accuracy Velocity: 0.11 kmph Distance:0.05% Resolution Velocity: 0.11 kmph Distance:0.01 m Timet.0.018  b Analogue input channels / Modules 08 Analogue input channels with minimum 0-10 VDC input range c Frequency and Pulse Counter 04 input channels for Frequency and Pulse Counter input d Thermocouple Interface 08 Channel K- Type Thermocouple e External CAN Bus Minimum 16 channels of user definable CAN Signal from vehicle CAN bus f Trigger Input Channels- Minimum 01 Channel Brake and Event Trigger with Trigger g Other Input / Outputs 2 Analogue outputs, 2 Digital outputs, 4 Analogue inputs, 4 Digital Inputs 2 CAN ports and Serial output Integrated Bluetooth, USB and RS232 serial output plus audio input Provided with CAN data set along with all the accessories and parts such as: i. Mains Power Supply 2W Plug, ii. Cigar Plug — minimum 2m cable (Power) Screened iii. GPS/Glonass Low Profile Antenna (no ground plane) with detachable SMA-SMA cable — minimum 4m iv. Antenna Cable non-hex SMA to non-hex SMA Connector — minimum 4m iv. Antenna Cable non-hex SMA to non-hex SMA Connector — minimum 4m iv. Antenna Cable non-hex SMA to non-hex SMA Connector — minimum 4m iv. Antenna Cable non-hex SMA to non-hex SMA Connector — minimum 4m iv. Antenna Cable non-hex SMA to non-hex SMA Connector — minimum 4m iv. Antenna Cable non-hex SMA to non-hex SMA Connector — minimum 4m iv. SW Pulg. 9 W D Socket — minimum 2m cable (USB Configuration) iii. 25 Way D connector ix. USB A USB Mini B — minimum 2m cable (USB Configuration) iiii				
Operating Voltage:12VDC   External Battery power pack with charging facility   i. Lithium-ion (Minimum 6AH)   ii. Charger with 2W Plug   In built Memory Card (Minimum 4GB)				
External Battery power pack with charging facility  i. Lithium-ion (Minimum 6AH)  ii. Charger with 2W Plug In built Memory Card (Minimum 4GB)  b Display  Multi-Function Touch Colour Display minimum 4"  Audio and Visual Alerts (Inbuilt Speaker and LED) indicator)  Configurable for minimum 6 channels simultaneously  Windscreen Suction Mount for use with PB Touch/Touch products  Technical Specifications: Dimensions/Accuracy/ Resolution  a Range Velocity: 0 to 300 kmph minimum  Accuracy Velocity: 0.1 kmph Distance:0.05%  Resolution Velocity: 0.01 kmph Distance:0.01 m Time:0.01s  b Analogue input channels / Modules 08 Analogue input channels / Modules 08 Analogue input channels with minimum 0 -10 VDC input range  requency and Pulse Counter 04 input channels for Frequency and Pulse Counter input  d Thermocouple Interface 08 Channel K. Type Thermocouple  e External CAN Bus Minimum 16 channels of user definable CAN Signal from vehicle CAN bus f Trigger Input Channels- Minimum 01 Channel Brake and Event Trigger with Trigger  g Other Input / Outputs 2 Analogue outputs, 2 Digital outputs, 4 Analogue inputs, 4 Digital Inputs 2 CAN ports and Serial output Integrated Bluetooth, USB and RS232 serial output plus audio input  h Provided with CAN data set along with all the accessories and parts such as: i. Mains Power Supply 2W Plug, ii. Cigar Plug—minimum 2m cable (Power) Screened iii. GPS/Glonass Low Profile Antenna (no ground plane) with detachable SMA-SMA cable —minimum 4m iv. Antenna Cable non-hex SMA to non-hex SMA Connector — minimum 4m v. Bluetooth Antenna vi. USB multi card reader vii. SW Plug - 9W D Socket minimum 2m cable (CSB Configuration) viii. 25 Way D connector ix. USB A - USB Mini B — minimum 2m cable (USB Configuration) viii. 25 Way D connector ix. USB Mini B — minimum 2m cable (USB Configuration) xiii. 4GB Compact Flash Card xiv. 8GB SD Ultima Pro UHS-1 Memory Card xv. SW plug-30 cm minimum, xvii. Padded Carry Case (INo)				
i. Lithium-ion (Minimum 6AH) ii. Charger with 2W Plug In built Memory Card (Minimum 4GB)  b Display  Multi-Function Touch Colour Display minimum 4"  Audio and Visual Alerts (Inbuilt Speaker and LED indicator)  Configurable for minimum 6 channels simultaneously  Windscreen Suction Mount for use with PB Touch/Touch products  Technical Specifications: Dimensions/Accuracy/ Resolution  a Range Velocity: 0 to 300 kmph minimum  Accuracy Velocity: 0 to 300 kmph minimum  Accuracy Velocity: 0.1 kmph Distance:0.01 m Time:0.01s  b Analogue input channels / Modules  08 Analogue input channels with minimum 0 -10 VDC input range  Prequency and Pulse Counter  04 input channels for Frequency and Pulse Counter input  d Thermocouple Interface  08 Channel K- Type Thermocouple  e External CAN Bus  Minimum 16 channels of user definable CAN Signal from vehicle CAN bus  f Trigger Input Channels- Minimum 01 Channel Brake and Event Trigger with Trigger  g Other Input / Outputs  2 Analogue outputs, 2 Digital outputs, 4 Analogue inputs, 4 Digital Inputs  2 CAN ports and Serial output  Integrated Bluetooth, USB and RS232 serial output plus audio input  h Provided with CAN data set along with all the accessories and parts such as:  i. Mains Power Supply 2W Plug.  ii. Cigar Plug — minimum 2 cable (Power) Screened  iii. GPS/Glonass Low Profile Antenna (no ground plane) with detachable SMA-SMA cable — minimum 4m  iv. Antenna Cable non-hex SMA to non-hex SMA Connector — minimum 4m  vi. USB multi card reader  vii. SW Plug — Will Scoket — minimum 2m cable (USB Configuration)  viii. 25 Way D connector  ix. USB A - USB Mini B — minimum 2m cable (USB Configuration)  viii. 25 Way D connector  ix. Audio Headset  xii. SW Plug — minimum 2m cable (Module PWR/CAN)  xiii. 446 Compact Flash Card  xiv. 80 Bo Ultima Pro UHS-1 Memory Card  xv. Wellagdor on minimum,  xvi. Padded Carry Case (INo)				
ii. Charger with 2W Plug In built Memory Card (Minimum 4GB)  b Display Multi-Function Touch Colour Display minimum 4" Audio and Visual Alerts (Inbuilt Speaker and LED indicator) Configurable for minimum 6-tannels simultaneously Windscreen Suction Mount for use with PB Touch/Touch products  2. Technical Specifications: Dimensions/Accuracy/ Resolution a Range Velocity: 0.1 kmph Distance: 0.05% Resolution Velocity: 0.1 kmph Distance: 0.01 m Time: 0.01s  b Analogue input channels / Modules 08 Analogue input channels with minimum 0 - 10 VDC input range c Frequency and Pulse Counter 04 input channels for Frequency and Pulse Counter input  d Thermocouple Interface 08 Channel K. Type Thermocouple e External CAN Bus Minimum 16 channels of user definable CAN Signal from vehicle CAN bus f Trigger Input Channels- Minimum 01 Channel Brake and Event Trigger with Trigger g Other Input/ Outputs 2 Analogue outputs, 2 Digital outputs, 4 Analogue inputs, 4 Digital Inputs 2 CAN ports and Serial output Integrated Bluetooth, USB and RS232 serial output plus audio input  h Provided with CAN data set along with all the accessories and parts such as: i. Mains Power Supply 2W Plug, ii. Cigar Plug — minimum 2m cable (Power) Screened iii. GPS/Glonass Low Profile Antenna (no ground plane) with detachable SMA-SMA cable — minimum 4m iv. Antenna Cable non-hex SMA to non-hex SMA Connector — minimum 4m vi. USB multi card reader vii. SW Plug - 9W D Socket — minimum 2m cable (USB Configuration) viii. 25 Way D connector ix. USB Mini B — minimum 2m cable (USB Configuration) viii. 25 Way D connector ix. USB Mini B — minimum 2m cable (Corniguration) viii. 25 Way D connector ix. USB Mini B — minimum 2m cable (Corniguration) viii. 3W Plug - 9W D Socket — minimum 2m cable (Corniguration) viii. 4Ch Compact Flash Card xiv. 8CG SD Ultima Pro UHS-1 Memory Card xv. Wellog Compact Flash Card xiv. SG B D Ultima Pro UHS-1 Memory Card xv. Wellog - om minimum, xv. Padded Carry Case (INo)			•	
In built Memory Card (Minimum 4GB)  b Display  Multi-Function Touch Colour Display minimum 4" Audio and Visual Alerts (Inbuilt Speaker and LED indicator) Configurable for minimum 6 channels simultaneously Windscreen Suction Mount for use with PB Touch-Touch products  2. Technical Specifications: Dimensions/Accuracy/ Resolution  a Range Velocity: 0.1 kmph Distance: 0.05% Resolution Velocity: 0.1 kmph Distance: 0.05% Resolution Velocity: 0.01 kmph Distance: 0.05% Resolution Velocity: 0.01 kmph Distance: 0.05%  Resolution Velocity: 0.01 kmph Distance: 0.05%  Resolution Velocity: 0.01 kmph Distance: 0.05%  Resolution Velocity: 0.01 kmph Distance: 0.05%  Resolution Velocity: 0.01 kmph Distance: 0.05%  Resolution Velocity: 0.01 kmph Distance: 0.05%  Resolution Velocity: 0.01 kmph Distance: 0.05%  Resolution Velocity: 0.01 kmph Distance: 0.05%  Resolution Velocity: 0.01 kmph Distance: 0.05%  Resolution Velocity: 0.01 kmph Distance: 0.05%  Resolution Velocity: 0.01 kmph Distance: 0.05%  Resolution Velocity: 0.01 kmph Distance: 0.05%  Resolution Velocity: 0.01 kmph Distance: 0.05%  Resolution Velocity: 0.01 kmph Distance: 0.05%  Resolution Velocity: 0.01 kmph Distance: 0.05%  Resolution Velocity: 0.01 kmph Distance: 0.05%  Resolution Velocity: 0.01 kmph Distance: 0.05%  Resolution Velocity: 0.01 kmph Distance: 0.05% Resolution Velocity: 0.01 kmph Distance: 0.05% Resolution Velocity: 0.01 kmph Distance: 0.05% Resolution Velocity: 0.01 kmph Distance: 0.05% Resolution Velocity: 0.01 kmph Distance: 0.05% Resolution Velocity: 0.01 kmph Distance: 0.05% Resolution Velocity: 0.				
b Display Multi-Function Touch Colour Display minimum 4" Audio and Visual Alerts (Inbuilt Speaker and LED indicator) Configurable for minimum 6 channels simultaneously Windscreen Suction Mount for use with PB Toucht/Touch products  2. Technical Specifications: Dimensions/Accuracy/ Resolution  a Range Velocity: 0.1 kmph Distance: 0.05% Resolution Velocity: 0.1 kmph Distance: 0.01 m Time: 0.01s  b Analogue input channels / Modules 08 Analogue input channels / Modules 08 Analogue input channels / Windscreen Colourer 04 input channels for Frequency and Pulse Counter input d Thermocouple Interface 08 Channel K. Type Thermocouple e External CAN Bus Minimum 16 channels of user definable CAN Signal from vehicle CAN bus f Trigger Input Channels- Minimum 01 Channel Brake and Event Trigger with Trigger g Other Input / Outputs 2 Analogue outputs, 2 Digital outputs, 4 Analogue inputs, 4 Digital Inputs 2 CAN ports and Serial output Integrated Bluetooth, USB and RS232 serial output plus audio input h Provided with CAN data set along with all the accessories and parts such as: i. Mains Power Supply 2W Plug, ii. Cigar Plug – minimum 2m cable (Power) Screened iii. GPS/Glonass Low Profile Antenna (no ground plane) with detachable SMA-SMA cable – minimum 4m iv. Antenna Cable non-hex SMA to non-hex SMA Connector – minimum 4m v. Bluetooth Antenna vi. USB multi card reader vii. Sw Plug - 9W D Socket – minimum 2m cable (Serial Configuration) viii. 25 Way D connector ix. USB A - USB Mini B – minimum 2m cable (USB Configuration) viii. 25 Way D connector ix. USB A - USB Mini B – minimum 2m cable (USB Configuration) xiii. 46 Compact Flash Card xiv. 8G B SD Ultima Pro UHS-1 Memory Card xv. 5W plug-30 cm minimum, xvi. Padded Carry Case (INo)				
Multi-Function Touch Colour Display minimum 4"			In built Memory	Card (Minimum 4GB)
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Windscreen Suction Mount for use with PB Touch/Touch products			Audio and Visua	Alerts (Inbuilt Speaker and LED indicator)
2. Technical Specifications: Dimensions/Accuracy/ Resolution  a Range Velocity: 0.1 kmph Distance: 0.05% Resolution Velocity: 0.01 kmph Distance: 0.05% Resolution Velocity: 0.01 kmph Distance: 0.01 m Time: 0.01s  b Analogue input channels / Modules 08 Analogue input channels with minimum 0 - 10 VDC input range  c Frequency and Pulse Counter 04 input channels for Frequency and Pulse Counter input  d Thermocouple Interface 08 Channel K- Type Thermocouple  e External CAN Bus Minimum 16 channels of user definable CAN Signal from vehicle CAN bus  f Trigger Input Channels- Minimum 01 Channel Brake and Event Trigger with Trigger  g Other Input / Outputs 2 Analogue outputs, 2 Digital outputs, 4 Analogue inputs, 4 Digital Inputs 2 CAN ports and Serial output Integrated Bluetooth, USB and R8232 serial output plus audio input  h Provided with CAN data set along with all the accessories and parts such as:  i. Mains Power Supply 2W Plug, ii. Cigar Plug — minimum 2m cable (Power) Screened iii. GPS/Glonass Low Profile Antenna (no ground plane) with detachable SMA-SMA cable — minimum 4m  iv. Antenna Cable non-hex SMA to non-hex SMA Connector — minimum 4m  iv. Antenna Cable non-hex SMA to non-hex SMA Configuration) viii. 25 Way D Connector ix. USB A - USB Mini B — minimum 2m cable (USB Configuration) x. 4 Channel analogue input interface - 25W D-connector to 4 x BNC + Power xi. Audio Headset xii. SW Plugs - minimum 2m cable (Module PWR/CAN) xiii. 4GB Compact Flash Card xiv. 8GB SD Ultima Pro UHS-1 Memory Card xv. 5W plug-30 cm minimum, xvi. Padded Carry Case (1Mo)			Configurable for	minimum 6 channels simultaneously
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c Frequency and Pulse Counter 04 input channels for Frequency and Pulse Counter input d Thermocouple Interface 08 Channel K- Type Thermocouple e External CAN Bus Minimum 16 channels of user definable CAN Signal from vehicle CAN bus f Trigger Input Channels- Minimum 01 Channel Brake and Event Trigger with Trigger g Other Input / Outputs 2 Analogue outputs, 2 Digital outputs, 4 Analogue inputs, 4 Digital Inputs 2 CAN ports and Serial output Integrated Bluetooth, USB and RS232 serial output plus audio input  Provided with CAN data set along with all the accessories and parts such as: i. Mains Power Supply 2W Plug, ii. Cigar Plug – minimum 2m cable (Power) Screened iii. GPS/Glonass Low Profile Antenna (no ground plane) with detachable SMA-SMA cable – minimum 4m iv. Antenna Cable non-hex SMA to non-hex SMA Connector – minimum 4m v. Bluetooth Antenna vi. USB multi card reader vii. 5W Plug - 9W D Socket – minimum 2m cable (Serial Configuration) viii. 25 Way D connector ix. USB A - USB Mini B – minimum 2m cable (USB Configuration) x. 4 Channel analogue input interface - 25W D-connector to 4 x BNC + Power xi. Audio Headset xii. 5W Plugs- minimum 2m cable (Module PWR/CAN) xiii. 4GB Compact Flash Card xv. 8GB SD Ultima Pro UHS-1 Memory Card xv. 5W plug-30 cm minimum, xvi. Padded Carry Case (1No)				
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- minimum 4m  iv. Antenna Cable non-hex SMA to non-hex SMA Connector – minimum 4m  v. Bluetooth Antenna  vi. USB multi card reader  vii. 5W Plug - 9W D Socket – minimum 2m cable (Serial Configuration)  viii. 25 Way D connector  ix. USB A - USB Mini B – minimum 2m cable (USB Configuration)  x. 4 Channel analogue input interface - 25W D-connector to 4 x BNC + Power  xi. Audio Headset  xii. 5W Plugs– minimum 2m cable (Module PWR/CAN)  xiii. 4GB Compact Flash Card  xiv. 8GB SD Ultima Pro UHS-1 Memory Card  xv. 5W plug-30 cm minimum,  xvi. Padded Carry Case (1No)			ii. Cigar Pl	ag – minimum 2m cable (Power) Screened
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vii. USB multi card reader vii. 5W Plug - 9W D Socket – minimum 2m cable (Serial Configuration) viii. 25 Way D connector ix. USB A - USB Mini B – minimum 2m cable (USB Configuration) x. 4 Channel analogue input interface - 25W D-connector to 4 x BNC + Power xi. Audio Headset xii. 5W Plugs– minimum 2m cable (Module PWR/CAN) xiii. 4GB Compact Flash Card xiv. 8GB SD Ultima Pro UHS-1 Memory Card xv. 5W plug-30 cm minimum, xvi. Padded Carry Case (1No)				
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xiv. 8GB SD Ultima Pro UHS-1 Memory Card xv. 5W plug-30 cm minimum, xvi. Padded Carry Case (1No)				
xv. 5W plug-30 cm minimum, xvi. Padded Carry Case (1No)				-
xvi. Padded Carry Case (1No)				=
	4.	Ap		•

	a	i. Required for above with Windows 10 compatible or latest version with free updates (if				
		any) for at least 10 years with free of cost & support.  ii. Up-gradable for future test requirement				
		iii. Compatibility to install application software on number of PCs				
		iv. Lateral/longitudinal g sensing, Lap timing function & Track mapping software				
	b	Software shall have different programmes for analysis of parameters such as distance, time,				
	U	velocity, acceleration, MFDD (Mean Fully Developed Deceleration), force etc.				
		Software shall be perpetual in nature without any interlocks from any external sources.				
	С	· ·				
		Manufacturer shall provide software code, exe, installer files and software manual.				
5.	a	<b>Environmental Conditions:</b> System shall be stabilized against temperature fluctuations.				
	b	Operating temperature 0°C to 70°C				
		Humidity: Up to 80%				
6.	The	e supplied Data Acquisition System 100 Hz and accessories shall be compatible with following				
0.		sors/accessories for undertaking various tests such as the brake test, speedometer calibration test,				
		eed limiting function test, Coast down test, Constant Speed Fuel Consumption Test, Acceleration				
		st and Maximum speed Test				
	Pedal Force sensor with banana and BNC connector					
	-150Kg with 0-5Vdc Out, (Inbuilt Amplifier)					
	Operating Voltage: 12Vdc.					
	Output 0-5 V DC Sensor Dimensions: 70*70*28mm minimum					
	Lever Loadcell with Banana and BNC Connector					
	Nominal load: 500N Minimum Accuracy: 0,5% f.s.					
	Power supply: 11-25V					
	Output: 0-5V					
	Digital Display for display of force, time, distance etc					
	Operating Voltage:12VDC					
	Input Channel: 2 Nos					
	Output Voltage:0-5 VDC or same as Sensor O/P					
	Laptop					
	Semi Rugged laptop					
	8G	8GB RAM, 500 GB SSD				
	Out	Output Voltage:0-5 VDC or same as Sensor O/P				
	Inbuilt rechargeable battery & charger					
	The	e installation and commencing of supplied Data Acquisition System 100 Hz and accessories shall				
7.						
7.						
7.	be v	verified by CIRT for functioning along with the sensors/accessories as detailed above at Row 6 for				
7.	be v	verified by CIRT for functioning along with the sensors/accessories as detailed above at Row 6 for lertaking various tests such as the brake test, speedometer calibration test, Speed limiting function to the constant Speed Fuel Consumption Test, Acceleration Test and Maximum				

Annexure 'G'

## **Technical Compliance Sheet**

The technical compliance Sheet must be completed and submitted with supported documentary evidences. Please ensure that all these points are covered in your offer. These will ensure that your offer is properly evaluated. Please mark "Yes" Or "NO" and specify page no. of your bid document where details or compliance has been confirmed. All technical parameters should be reflected in original OEM Brochure.

Sr. No.	Particulars	Complied / Not Complied (Yes/ No)	If deviation, please give proper justification that deviation suggested is	Page no. in Bid/ Reference of document in bid/ Reference No. supported
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			equivalent or better	documentary evidence.
1	Data Acquisition System 100Hz, and accessories sh	all be		
	able to undertake the brake test, speedometer calibr	ation test,		
	Speed limiting function test, Coast down test, Cons	tant		
	Speed Fuel Consumption Test, Acceleration Test ar			
	Maximum speed Test for testing & certification of a			
	category of vehicles including all category of electr			
	vehicles .			
1.a	Make/ Model No of Quoted Equipment			
2	Tests to be carried out:			
2.1	Brake test			
2.2	Speedometer calibration test			
2.3	Speed limiting function test			
2.4	Coast down test			
3	Technical features: detailed description			
3a	Data Acquisition System: GNSS Data Logger			
Ja	Sampling Rate: maximum 100 Hz			
	Communication Port:			
	i. USB Interface			
	ii. Bluetooth Interface			
	iii. CAN Interface			
	Operating Voltage:12VDC			
	External Battery power pack with charging facility			
	i. Lithium-ion (Minimum 6AH)			
	ii. Charger with 2W Plug			
	In built Memory Card (Minimum 4GB)			
3b	Display			
	Multi-Function Touch Colour Display minimum 4"			
	Audio and Visual Alerts (Inbuilt Speaker and LED	indicator)		
	Configurable for minimum 6 channels simultaneous			
	Windscreen Suction Mount for use with PB Touch/	Touch		
	products			
4	Technical Specifications: Dimensions/Accuracy/			
	Resolution			
4a	Range Velocity:0 to 300 kmph minimum			
	Accuracy Velocity: 0.1 kmph Distance: 0.05%			
	Resolution Velocity: 0.01 kmph			
	Distance:0.01 m			
	Time:0.01s			
4b	Analogue input channels / Modules			
	08 Analogue input channels with minimum 0-10 VI	OC input		
	range			
4c	Frequency and Pulse Counter			
	04 input channels for Frequency and Pulse Counter	ınput		
4d	Thermocouple Interface			
	08 Channel K- Type Thermocouple			
4e	External CAN Bus			
	Minimum 16 channels of user definable CAN Signa vehicle CAN bus	al from		
4f	Trigger Input Channels- Minimum 01 Channel Bral	ke and		
	Event Trigger with Trigger			
4g	Other Input / Outputs			
	4 Analogue outputs, 4 Digital outputs			
	2 CAN ports and Serial output			

	Integrated Physicath, LICP and DC222 social output plus		
	Integrated Bluetooth, USB and RS232 serial output plus		
41	audio input		
4h	Provided with CAN data set along with all the accessories		
	and parts such as:	<del>                                     </del>	
	i. Mains Power Supply 2W Plug,		
	ii. Cigar Plug – minimum 2m cable (Power) Screened		
	iii. GPS/Glonass Low Profile Antenna (no ground		
	plane) with detachable SMA-SMA cable –		
	minimum 4m		
	iv. Antenna Cable non-hex SMA to non-hex SMA		
	Connector – minimum 4m		
	v. Bluetooth Antenna		
	vi. USB multi card reader		
	vii. 5W Plug - 9W D Socket – minimum 2m cable		
	(Serial Configuration)		
	viii. 25 Way D connector		
	ix. USB A - USB Mini B – minimum 2m cable (USB		
	Configuration)		
	x. 4 Channel analogue input interface - 25W D-connector to 4 x BNC + Power		
	xi. Audio Headset		
	xii. 5W Plugs– minimum 2m cable (Module		
	PWR/CAN)		
	xiii. 4 GB Compact Flash Card		
	xiv. 8GB SD Ultima Pro UHS-1 Memory Card		
	xv. 5W plug-30 cm minimum,		
5	xvi. Padded Carry Case (1 No)		
5a	Application Software requirement		
Sa	i. Required for above with Windows 10 compatible or		
	latest version with free updates (if any) for at least		
	10 years with free of cost & support.		
	ii. Up-gradable for future test requirement		
	iii. Compatibility to install application software on number of PCs		
	iv. Lateral/longitudinal g sensing, Lap timing function		
5 h	& Track mapping software		
5b	Software shall have different programmes for analysis of parameters such as distance, time, velocity, acceleration,		
	1 *		
5c	MFDD(Mean Fully Developed Deceleration), force etc.  Software shall be perpetual in nature without any interlocks		
30	from any external sources.		
	Manufacturer shall provide software code, exe, installer files		
	and software manual.		
6	Environmental Conditions: System shall be stabilized		
0	against temperature fluctuations.		
	Operating temperature 0°C to 70°C		
	Humidity: Up to 80%		
7	The supplied Data Acquisition System 100 Hz and		
,	accessories shall be compatible with following		
	sensors/accessories for undertaking various tests such as the		
	brake test, speedometer calibration test, Speed limiting		
	function test, Coast down test, Constant Speed Fuel		
	Consumption Test, Acceleration Test and Maximum speed		
	Test		
	Pedal Force sensor with banana and BNC connector		
	-150Kg with 0-5Vdc Out, (Inbuilt Amplifier)		
	Operating Voltage:12Vdc.		
	Output 0-5 V DC Sensor Dimensions: 70*70*28mm		
	minimum		

			-
	Lever Loadcell with Banana and BNC Connector		
	Nominal load: 500N Minimum		
	Accuracy: 0,5% f.s.		
	Power supply: 11-25V		
	Output: 0-5V		
	Digital Display for display of force, time, distance etc		
	Operating Voltage:12VDC		
	Input Channel:2 Nos		
	Output Voltage:0-5 VDC or same as Sensor O/P		
	Laptop		
	Semi Rugged laptop		
	8GB RAM, 500 GB SSD		
	Output Voltage:0-5 VDC or same as Sensor O/P		
0	Inbuilt rechargeable battery & charger		
8	The installation and commencing of supplied Data		
	Acquisition System 100 Hz and accessories shall be verified		
	by CIRT for functioning along with the sensors/accessories as		
	detailed above at Row 6 for undertaking various tests such as		
	the brake test, speedometer calibration test, Speed limiting		
	function test, Coast down test, Constant Speed Fuel		
	Consumption Test, Acceleration Test and Maximum speed Test.		
9	Calibration of equipment:		
9	Canbration of equipment:		
	Initial calibration through National or International		
	calibration agency which is tracable as per ISO/IEC		
	17025:2005 of International Standard		
	17025.2005 of International Standard		
	Instrument shall have a user friendly and faster recalibration		
	process providing highest uptime.		
	process providing ingless uptime.		
	Manufacturer shall provide calibration certificate of		
	equipment comply with national or international standards.		
	Tr r		
	Manufacturer shall provide all required calibration		
	standards with equipment.		
10	Special requirement		
	Carry Case for instrument storage and transportation		
	Service backup in CIRT, Pune within 48 hours		
	Supplier to provide future calibration procedure		
	Supplier should quote for extended warranty for 3 <sup>rd</sup> and 4 <sup>th</sup>		
	year in optional scope		
	Supplier should quote for recommended spares (i.e.		
	additional Cables, connectors, antenna etc) in optional scope.		
	Manufacturer is requested to submit list of standard		
	accessories and optional accessories to keep instrument		
	trouble free for a period of ten years.		
	All end connectors and wires required for the above should		
	be provided, and end connector details will be provided after		
	the demonstration.		
	All wires and connectors used should meet applicable IS/ISO		
	requirements for the same.		
	i. Configuration should be easily done with & without		
	laptop.		
	ii. Post processing should be easy and live data should		
	be available on display during the test.		
11	Equipment shall include all required accessories to make		
	sytem fully in operation.		
	1 v v 1	1	

			1
12	Manuals Manufacturer shall provide Three copies (both hard copy and		
	Manufacturer shall provide Three copies (both hard copy and soft copy) of detailed user manuals (operating and		
	maintenance) with complete circuit diagrams (mechanical,		
	electronic, and electrical).		
13	Training:		
	Manufacturer shall provide training for Five (5) working		
	days wherein the training shall be about operations,		
	instructions, maintenance as well as trouble shooting & all		
	other areas which are necessary for smooth functioning of		
	Machine after installation and commissioning at CIRT.		
14	Warranty:		
	The bidder shall give warranty for 1 year from the date of		
	commissioning of the equipment against any manufacturer		
	defects or any other defects.		
15	Customer Service Support (after Warranty period) -		
	Customer Service Support shall be provided for minimum		
1.0	period of 9 years after the initial warranty period of 3 year.		
16	Spares and consumables:		
	Manufacturer shall provide a sufficient spares and		
	consumables for smooth and trouble-free operation for a		
1.7	period of 3 years.		
17	Spares & Consumables support for 9 years after warranty period.		
18	Pre-Dispatch Inspection:		
10	Pre-Dispatch Inspection.  Pre-Dispatch Inspection of the equipment shall be carried out		
	by CIRT personnel and the expenditure towards the same shall		
	be borne by the OEM.		
	For non-local suppliers if possible CIRT personnel will		
	inspect the test equipment at bidder's Indian office, or at CIRT		
	premises if the bidder qualifies. If PDI is done at CIRT		
	premises, has any deficiency or deficiencies found then		
	consignment will be rejected.		
19	Equipment must meet the Environmental, Health and safety		
	aspects. If hazardous material is used, then please provide		
	MSDS (Material Safety Data Sheet) and procedure for		
	disposal.		
20	Delivery:	 	
	Equipment/ Test Rigs shall be supplied to CIRT within a		
	period of 60 days from the date of acceptance of P.O.		

#### Annexure H

# UNDERTAKING TO BE SUBMITTED IN CASE BIDDER IS TEST EQUIPMENT MANUFACTURER

(To be submitted on the letterhead of the equipment manufacturer in case bid is submitted by test equipment manufacturer)

I / We hereby certify and confirm that we M/s. ...... (Name of the Bidder) here by give undertaking that we will extend our full warranty, maintenance service and supply of

spares during warranty period and customer support service period, in accordance with terms and conditions of the tender document.
Yours faithfully,
(Signature, name, and designation of the authorized signatory) For and on behalf of
(Stamp of test equipment manufacturer)

#### Annexure I

# UNDERTAKING TO BE SUBMITTED BY TEST EQUIPMENT MANUFACTURER IN CASE BIDDER IS DISTRIBUTOR OF TEST EQUIPMENT MANUFACTURER

(To be submitted on the letterhead of the equipment manufacturer)

I / We hereby certify and confirm that we M/s (Name of the Test equipment manufacturer) here by give undertaking that we will extend our full warranty, maintenance service and supply of spares during warranty period and customer support service period, in accordance with terms and conditions of the tender document.
I/ We also certify that M/s (Name of the Distributor) is our authorized distributer from lastyears. M/s (Name of the Distributor) is associated with us and have expertise of installation, commissioning, maintenance and repair in most effective manner.
Yours faithfully,
(Signature, name and designation of the authorized signatory) For and on behalf of
(Stamp of test equipment manufacturer)

(to be printed in letter head)

## Self-Certification under preference to Make in India order Certificate

In line with Government Public Procurement Order No. P-45021/2/2017-PP(BE-II) dated
16.9.2020 and its amendments, if any we hereby certify that we M/s
are local supplier meeting the requirement of minimum
local content i.e% as defined in above orders for the material against Tender
Nodated Details of location at which local value addition
will be made as follows:
We also understand, false declarations will be in breach of the 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.
Thanking You,
Signature with date:
Name:
Designation:
Bidder Seal

## (to be printed in letter head)

Self-Certification to be submitted by Non-local suppliers	
We hereby declare that we are non-local suppliers	nanufacturing
We also understand, false declarations will be in breach of the code of integrity und 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be for up to two years as per Rule 151(iii) of the General Financial Rules along with su actions as may be permissible under law.  Thanking You,	be debarred
Signature with date:	
Name:	
Designation:	
Bidder Seal	

# Format for submission of letter from purchaser of Data Acquisition System 100 Hz and accessories (To be submitted on the letterhead of purchaser)

We, M/s	have purchased Data Acq	ourchased Data Acquisition System 100 Hz and		
accessories from M/s	in the year	Purchased		
Data Acquisition System 100 Hz and accessories	in the year	is currently operating		
satisfactorily.				
Signature of authorised signatory of purchas	er with date:			
Name:				
Designation:				
Company Name:				
Seal of Purchaser Company:				