Dt: 11.11.2026

Ref. No: RGUKT/ONG/E-Proc./Civil Engg. Dept. /Lab Equipment/2026/T01

BID DOCUMENT

E-Procurement

Open Competitive Bid (OCB)

For

Establishment of laboratories in the Department of Civil Engineering at

RGUKT-Ongole CAMPUS



RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES

RGUKT-Ongole

Prakasam District, Andhra

Pradesh-523225

www.rguktong.ac.in

Proprietary & Confidential

No part of this document can be reproduced in any form or by any means, disclosed or distributed to any person without the prior consent of RGUKT except to the extent required for submitting bid and no more.

Time schedule of various tender related events

Bid calling date	11.11.2026
Bid document downloading start date	11.11.2026 at 11.00 AM
Bid document downloading last date	03.12.2026 at 05.00 PM
Last date & time for uploading of documents online	03.12.2026 at 05.30 PM
Technical bid (PQ stage) opening date & time	04.12.2026 at 10.00 AM
Price Bid opening date & time	07.12.2026 at 10.00 AM

Note:

1. Submission of Hard copies of technical bid is mandatory.
2. After participating in the tender, an acknowledgement email should be sent to
3. **tenders@rguktong.ac.in** as format specified in Annexure IX

Note: The dates stipulated above are firm and under no circumstances they will be relaxed unless extended by an official notification or happen to be Public Holidays. For the assistance with online submission issues, the bidder may contact the help desk of M/s. VUPADHI (https://tender.apeprocurement.gov.in) at their e-mail address: contact@vupadhi.com.Phone:08645-246370/71/72/73/74.

For any clarification and further details on the above tender please contact: **7670905581**.

CLARIFICATIONS:

i. Queries if any can be made through e-mail only tenders@rguktong.ac.in on or before last date and time for uploading of documents online. Queries received via any mode other than e-mail id mentioned above will not be entertained. The queries should only be sent in following format on the official letter headof the company.

S. No.	Page No. (Tender Ref.)	Clause (Tender Ref.)	Description (Tender Ref.)	Query

ii. The addendum/corrigendum if any shall be published on RGUKT-Ongole, Andhra Pradesh website i.e. www.rguktong.ac.in/tenders as well as on e-procurement platform https://tender.apeprocurement.gov.in

iii. The service providers are requested to submit the bids after issue of clarifications duly considering the changes made if any. Service providers are totally responsible for incorporating/complying the changes/ amendments issued if any.

Sd/- Administrative Officer (i/c),
RGUKT-Ongole,

Newspaper advertisement
E-Procurement Tender Notice

Hindu Paper Advertisement

Rajiv Gandhi University of Knowledge Technologies, Ongole Campus

Santhanuthalapadu (V&M), Ongole - 523 225

Tender Notice **Date : 11-11-2026**

The tender advertisement dated 02.08.2026 is hereby canceled, as the tender could not be floated due to technical problems.

Fresh online tenders are hereby invited through the e-procurement portal for the supply, installation and testing of various laboratory equipment, desktops, generators, printers, air conditioners and other items.

For detailed tender notices, specifications and schedules, please visit:

https://rguktong.ac.in/index.php?data=tenders

https://www.apeprocurement.gov.in

Sd/- Administrative Officer

Section I
INVITATION FOR BIDS

Subject: Establishment of laboratory facilities in the Department of Civil Engineering at RGUKT-Ongole, AP.

Sir/Madam,

1. Bids are invited on the e-procurement platform from the reputed manufactures /registered firms/venders/authorized distributors/wholesale dealers/retail dealers/retailers for **Establishment of** laboratory facilities in the Department of Civil Engineering to RGUKT-Ongole, AP. The details of bidding conditions and other terms can be downloaded from our website www.rguktong.ac.in as well as on the e-procurement platform https://tender.apeprocurement.gov.in.

2. Bidders would be required to register on the e-Procurement marketplace "www.apeprocurement.gov.in" and submit their bids online. On registration with the e- Procurement marketplace, they will be provided with a user ID and password by the system through which they can submit their bids online.
3. The bidders need to scan and upload the required documents as per the checklist given. Such uploaded documents pertaining to the technical bid need to be attached to the tender while submitting the bids online.
4. The hard copies of the technical bid must be submitted.
5.

a) The participating bidder(s) will have to pay non-refundable tender processing fee Rs. 2000/- (Rupees Two Thousand Only) Online transfer only to the Director, IIIT RGUKT Ongole A/c No.62483877819, IFSC code: SBIN0000890 through NEFT/RTGS/UPI etc. After confirmation of payment, payment receipt must be uploaded online on e-procurement website.

b) The bidder(s) shall furnish, as part of their bid, an Earnest Money Deposit (EMD) equivalent to **3% of the estimated tender value**, through online payment only via the AP e-Procurement portal. The successful bidder shall further furnish the balance amount required to make the total Security Deposit equivalent to **5% of the contract value, inclusive of the EMD already paid**. The EMD shall be adjusted towards the Security Deposit upon award of the contract.

c) Firms registered under MSME and eligible for exemption under the applicable Government rules shall be exempted from payment of EMD, subject to submission of a valid MSME registration certificate along with the Technical Bid. Such exemption shall be subject to the applicable procurement rules and conditions of the tender.

d) All the participating Service providers who submit the bids have to pay transaction fee and GSTas levied by Govt. of India through online in favor of MD, APTS. The amount payable to APTS is non-refundable

e) RGUKT will not accept the tenders from blacklisted companies or undependable Suppliers whose past performance with RGUKT-AP was found poor due to delayed and/or erratic supplies and those with frequent product failures, and also against whom there have been adverse reports of Sub-Standard Quality / Poor Service of Equipment supplies, as defined in the other parts of the
f) Bidding document.

6. Any information pertaining to the tender process and the submission of supporting documentsshall not be entertained after the due date.

The bidders are requested to read the tender document carefully and ensure compliance with all specifications/instructions herein. Non-compliance with specifications/instructions in this document may disqualify the bidder from the tender exercise. For any clarification and further details on the above tender please contact Telephone No: **7670905581** during 10.00 AM to 5.00 PM or e-mail: tenders@rguktong.ac.in

Sd/- Administrative
Officer (i/c)
RGUKT-Ongole, Andhra Pradesh

SECTION II
STATEMENT OF IMPORTANT LIMITS/VALUES RELATED TO BID

Item	Description
Work Description	Establishment of Laboratory facilities in the department of Civil Engineering to RGUKT-Ongole, AP.
Tender Fee (Nonrefundable)	Rs.2000/- (Rupees Two Thousand only). Online transfer only to the Director, IIIT RGUKT Ongole A/c No.62483877819, IFSC code: SBIN0000890
EMD/Bid Security (Refundable)	EMD: 3% of the Estimated Tender Value (Online payment only through the AP e-Procurement portal). Exemptions shall be applicable to eligible MSME-registered firms as per the prevailing Government rules, subject to submission of a valid MSME registration certificate along with the Technical Bid.
Bid Validity Period	180 days from the date of opening of commercial bid
EMD Validity Period	90 days from the date of opening of commercial bid
Period for furnishing performance Security	Within 20 days from date of receipt of Letter of Intent
Delivery Schedule	The items must be delivered within 10 weeks from the date of Purchase Order.
Performance security value	3% of Order value
Performance security validity period	12 months from the date of installation
Period for signing the order Acceptance	Within 20 days from date of receipt of notification of award
Warranty	One-year comprehensive warranty
Payment terms	Payment shall be made in Indian rupees. 90% Payment shall be released after the successful delivery, installation of the items and on getting satisfactory certificate from the concerned department and the balance 10% amount shall be released after two months from the date of installation
Placing purchase order	RGUKT-Ongole will place order on identified successful bidder. All the payments shall be made directly by RGUKT-Ongole to the successful bidder as per the tender terms and Conditions.
Transaction Fee	All the participating bidders who submit the bids have to pay an amount @ 0.03% of their final bid value online with a cap of Rs. 10,000/- for quoted value of purchase up to Rs.50 crores (or) Rs.25000/- if the purchase value is above Rs.50 crores & GST applicable as levied by Govt. of India on transaction fee through online in favour of The Managing Director, APTS. The amount payable to APTS is nonrefundable.
Bid submission	Online through e-procurement platform i.e.www.apeprocurement.gov.in

Other conditions	1. The Documents that are uploaded on e-marketplace will only be considered for Bid Evaluation. 2. RGUKT-Ongole will not hold any risk and responsibility regarding non- visibility of the scanned and uploaded documents. 3. Failure to furnish any of the uploaded documents, certificates will be entitled in rejection of the bid. Similarly, if any of the certificates, documents, etc., furnished by the Service providers are found to be false/fabricated/bogus, the Service provider will be disqualified, blacklisted and action will be initiated as deemed fit and the Bid Security/EMD will be forfeited. 4. The rates should be quoted through online only. 5. The financial bids of the bidders, who qualified the technical bid, shall only be opened.

TENDER SCHEDULE

1. PREAMBLE:

The Government of Andhra Pradesh has established Rajiv Gandhi University of Knowledge Technologies (RGUKT) in 2008 to cater to the educational needs of the meritorious rural youth of Andhra Pradesh state. RGUKT-Ongole is one of its autonomous campuses started in 2008. The Institute provides an ambience of excellence for the pursuit of knowledge leading to B.Tech degree in different branches of Technology.

Rajiv Gandhi University of Knowledge Technologies - Ongole, AP invites online tenders for Establishment of Digital Signal Processing laboratory in the department of Civil Engineering at RGUKT - Ongole, AP from the reputed manufactures /registered firms /venders/ authorized distributors/wholesale dealers/retail dealers/retailers through e-procurement platform (i.e.www.apeprocurement.gov.in).

2. SCOPE OF WORK:

Establishment of Digital Signal Processing laboratory in the department of Civil Engineering to RGUKT-Ongole, Andhra Pradesh. The details of the required items along with specifications are given in **Annexure-VIII**

3. INCOME TAX:

During the contract period, deduction of income tax and surcharge as in force at source shall be made at the prevailing rate of income tax department issued from time to time on the gross amount of each bill.

4. RATES, TAXES AND DUTIES:

All the rates in the tender shall be inclusive of all statutory compliances like GST etc.

5. ELIGIBILITY CRITERIA

a) Tender document with proper seal and signature of authorized person on each page of the bid submitted in token of acceptance of all the terms and conditions of the tender schedule. The person signing the bid should be the duly authorized representative of the firm/ company whose signature should be verified, and certificate of authority should be submitted.

b) Bidder must have registered firm in India. Self-Attested copy of Registration certificate, GST, PAN Card as applicable shall be enclosed.

c) A Certificate by the auditor/CA/CS indicating the turnover of the firm should be enclosed. The bidder should have minimum average turnover of **Rs.1,00, 00,000 (One Crore)** in last three financial years. Audited balance sheets shall be submitted.

d) Income tax returns for any two years out of last three financial years shall be submitted.

e) Manufacturers Authorization Form (MAF) from OEM with warranty level letter from OEM shall be submitted in case of the bidder is not a manufacturer

f) Valid ISO certificate shall be submitted.

g) The bidder/ shall have successfully supplied similar laboratory equipment to at least five recognised Government institutions, universities, IITs, NITs, research laboratories or other reputed educational institutions during the preceding five financial years.

h) Documentary evidence such as purchase orders, invoices and satisfactory installation/performance certificates shall be furnished.

i) The bidder shall submit details of at least three completed supply orders involving similar equipment.

j) The purchaser reserves the right to verify the credentials and performance of the institutions mentioned by the bidder.

k) Technical compliance statement as per the **Annexure V** needs to be enclosed.

l) Bidder should not have been debarred/blacklisted by any State Government, CentralGovernment, Central & State Govt. Undertakings/enterprises/Organizations and by any other Quasi Government bodies/Organizations, World Bank or any major Enterprise /Organization in India doing business

with them. (Please submit self-declaration as **Annexure VI**).

m) Tender submission :Through E- Procurement

n) Submission of hard copies for technical bid evaluation and financial bid evaluation are not mandatory.

o) Tender schedule period: 21 days

Note: All the copies of certificates furnished should be signed by bidder along with their seal. The bidders must submit all relevant documentary evidence to support their claim for eligibility in placingbid. **The tenders received without the above documents will be rejected.**

6. BID PRICE:

i. The price should be quoted in Indian Rupees with delivery at RGUKT-ONGOLE, Ongole (M), Prakasam District, Andhra Pradesh, failing which the bid would be rejected. The price shall be written bothin figures & words in the prescribed offer form.

ii. The rates quoted by the bidder shall be fixed for the duration of the contract period and shall not be subject to adjustment on any account. But, any benefit arising out of any subsequent reductionin the prices due to reduction in duty & taxes after the prices are fixed and before the delivery should be passed on to the Purchaser (i.e. RGUKT-Ongole).

iii. Any variation arises between unit price and the corresponding quoted total cost then the unit rate will prevail for calculating the total cost.

iv. If there is a discrepancy between amount in words and figures, the amount in the words will prevail.

v. Incomplete and/or conditional bids shall be liable to rejection. Prices should be quoted as per the format of price bid.

7. BID PREPARATION:

Tenders are invited under two bid system viz., Part-1: Technical bid andPart-2: Financial Bid.Bidders are requested to prepare the tender documents according to the following instructions.

Part – 1: Technical Bid

All the original/self-attested photocopies of documents should be scanned and uploaded as Specified in Technical Bid Check list (Annexure I). The financial bids of the bidders, who qualified the technical bid, shall only be opened.

Part – 2: Financial Bid

The bidder shall prepare the price bid as prescribed proforma (Annexure-VII)of the biddocument

1. The rates shall be quoted in INR
2. The offered unit price shall be inclusive of standard packing, freight to destination, insurance,loading and unloading charges, installation etc.
3. GST both in percentage and INR shall be shown separately.

8. DELIVERY SCHEDULE:

a. The delivery period is 60 days from the date of release of Purchase Order.

b. In the event of delayed delivery i.e. delivery after the expiry of the delivery period as specified above, the vendor shall be liable to pay a penalty at a percentage of the value of the undelivered items as detailed below.

Note: If any items or part of items not delivered as per the purchase order during the stipulatedtime, penalty will be calculated on all undelivered items.

@ 0.5% for the One week
@ 1% for Two weeks
@ 1.5% for Three weeks
@ 2% for four weeks
@ 2.5% for Five weeks

@ 3% for six weeks

if delay continues beyond 6 weeks, then the contract is liable to be canceled.

c. The delivery is not deemed to be completed until and unless the ordered products are checked and accepted by the RGUKT-Ongole, AP as per the order and specifications. After the delivery is made, if it is discovered that the items supplied are not according to our requirement, such supply would be rejected at the supplier's cost.

9.PAYMENT TERMS:

90% Payment shall be released after the successful delivery, installation of the items and on getting satisfactory certificate from the concerned department and the balance 10% amount shallbe released after two months from the date of installation.
Payment shall be paid through RTGS/NEFT/Cheque within 45 days on delivery of items & onreceipt of the following details:

(a) Original invoice duly signed by the authorized signatory.
(b) Item acceptance certificate & Installation report duly signed from authorized representative of RGUKT, Ongole, AP.
(c) PAN card, Bank Account details, Bank Address & RTGS details of the agency are to beforwarded along with the invoice.

10.EARNEST MONEY DEPOSIT / BID SECURITY:

(a) The bid shall be accompanied by an Earnest Money Deposit (EMD) equivalent to 3% of the Estimated Tender Value, payable through online payment only via the AP e-Procurement portal.
(b) The EMD shall not carry any interest. Tenders received without EMD's will be summarilyrejected.
(c) The Firm who are registered with MSME is exempted to submit the EMD. Copy of validregistration MSME certificate must be scanned and uploaded.
(d) **Forfeiture of the EMD:** the forfeiture of EMD will be made in the following events:
   i. The bidder qualifies as L1 and backs out of the L1quotes/tender specification/ tender terms &conditions.
   ii. The bidder signs the agreement and furnishes the Security Deposit but backs out of his tender bid.
   iii. The bidder withdraws his tender after acceptance.
   iv. The bidder withdraws his tender before expiry of the validity period of the tender.
   v. The bidder violates any provisions of the terms and conditions of this tender specification.

10. REFUND OF EMD:

i. In case of unsuccessful bidder, the EMD will be returned to them after finalization of the L1 bidder.

ii. The EMD will be returned to the L1 bidder, only after signing of the contract and submission of Security Deposit, completion of formality etc. in all respects to the satisfaction of the RGUKT- Ongole, AP.

11.PERFORMANCE SECURITY DEPOSIT:

i. The successful bidder shall furnish a Security Deposit equivalent to **5% of the total accepted contract value, inclusive of the EMD already paid**, in the form of an irrevocable Bank Guarantee from a Scheduled Commercial Bank. The balance amount, after adjusting the EMD, shall be remitted by the successful bidder.
ii. The Performance Security Deposit / Bank Guarantee of successful Bidder will be retained for the period of contract in force and will be returned after expiry of the contract period, after deducting the outstanding liabilities if any.
iii. The Performance Security Deposit / Bank Guarantee shall not carry any interest.

12. GUARANTEE:

The bidder shall provide a Certificate of Guarantee guaranteeing the Purchaser Company of the satisfactory operation of the items given by the vendor.

13. DEFECT LIABILITY PERIOD (DLP):

The supplier shall be responsible for rectifying, repairing or replacing, at no additional cost to RGUKT Ongole, any defects, malfunctions or deficiencies identified in the supplied equipment during a period of two (2) years from the date of successful installation, commissioning and acceptance by RGUKT Ongole. The supplier shall attend to reported defects promptly and ensure that the equipment is restored to satisfactory working condition. All expenses towards repairs, replacement, transportation and service during this period shall be borne by the supplier.

14. ROYALTIES AND PATENTS:

Any royalties or patents or the charges for the use or infringement thereof that may be involvedin the contract shall be included in the price. Bidder shall protect RGUKT-Ongole, AP against any claims thereof.

15. RGUKT-Ongole, AP shall have the right to relax or waive or alter any of the provisions of the tender document.

16. If the bidder wishes to depart from the technical specifications in any respect, he/she shall draw the attention to such points of departure explaining fully the reasons thereof and furnish separately adopting the form as per ANNEXURE-V (Technical Compliance Statement). Unless thisis done, the requirements of the technical specification will be deemed to have been accepted in every respect. The RGUKT-Ongole, AP reserves the right to accept/reject any or all of the deviations shown by the bidder.

17. INSTRUCTIONS TO BIDDERS

(a) Tenders with over writings, alterations etc., will not be admitted unless they areattested by the bidder.
(b) Bid should be strictly in conformity with the Terms and Conditions mentioned in thetender schedule.

(c) Bidders are expected to examine all the terms and instructions mentioned in the tender schedule and prepare their proposals accordingly. Failure to provide all requisite information will be at the bidders' own risk and may result in the rejection of the tender.
(d) All assertions made in connection with the tender are to be supported/ substantiatedby relevant documents. The Director, RGUKT-Ongole reserves the right to verify the credentials of the bidder as per the eligibility criteria.
(e) The Director, RGUKT-Ongole, AP will notify the bidder whose tender has been accepted.
(f) The successful bidder shall execute an agreement with RGUKT on Non-judicial stamp paper worth Rs.100/- agreeing to all the conditions of the contract within 20 days upon intimation of acceptance of Tender. The successful bidder has to submit performance security guarantee after getting Letter of Intent but before having contract agreement. Failure on enter into an agreement within the stipulated time will result in forfeiture of the EMD.
(g) Unloading of items and delivery to the store place shall be responsibility of the bidder.

18. METHOD OF SUBMISSION:

Bids shall be submitted online on www.apeprocurement.gov.in Platform.

i. The participating bidders in the tender should register themselves free of cost on e-procurement platform in the website www.apeprocurement.gov.in

ii. Bidders can log-in to e-procurement platform in secure mode only by signing with the Digital

certificates.

iii. The bidders who are desirous of participating in e-procurement shall submit their technicalbids, price bids as per the standard formats available at the e-market place.

iv. The bidders shall sign on all the statements, documents, certificates uploaded by them, owning responsibility for their correctness/authenticity.

v. The bidders should scan and upload the respective documents in Technical documentation asper the check list.

vi. No physical submission of price bid will be entertained

vii. Failure to furnish any of the uploaded documents, certificates, will entitled in rejection of the bid. If any of the certificates, documents, etc., furnished by the Bidder are found to be false / fabricated / bogus, the bidder will be disqualified, blacklisted, action will be initiated as deemed fit and the Bid Security will be forfeited.

viii. RGUKT, Ongole AP will not hold any risk and responsibility regulating non-visibility of thescanned and uploaded documents.

ix. The Documents that are uploaded online on e-market place will only be considered for Bid Evaluation.

x. The rates should be quoted online only.

19. EVALUATION PROCEDURE:

i. The Technical Bids will be opened first as per the schedule given in the tender document

ii. The tenders will be evaluated to ascertain the capability of the bidders to provide the material within the period mentioned above and to assess whether the bidder satisfies the eligibility criteria as per Annexure-I (Technical Check List).

iii. The rejection of the bidder on technical grounds will be based on the failure to meet eligibility requirements.

iv. Price Bids of only those bidders, who have fulfilled the eligibility criteria specified, will be opened. The Price Bid of the bidder who does not fulfill the eligibility criteria will not be opened and their tender stands rejected.

v. Any claims or disputes raised by the unsuccessful bidders in respect of selection process and non-allotment of award will have no legal validity and will not be enforceable against the RGUKT, Ongole AP. No further correspondence will be entertained regarding the disqualification.

vi. The RGUKT, Ongole AP, reserves the right to accept or reject any / or all the tenders without assigning any reasons whatsoever. The RGUKT, Ongole AP, also reserves the right to cancel the selection process for award of the contract at any time. The decision of the Director, RGUKT, Ongole AP is final and binding.

20. FORCE MAJEURE:

During force Majeure i.e. Acts of God, War, Floods, Riot, Earthquake, General Strike, Lock outs, Epidemics, Civil Commotions, the bidder shall inform the Purchaser immediately and provide their best possible service in given circumstances, and resume services as soon as possible after force majeure ceases.

21. ARBITRATION:

In the event of any dispute or differences between the supplier and the purchaser whether arising during the execution of orders under these terms and conditions or thereafter whether by breach or in manner in regard to:

(a) The Construction or interpretation of the terms and conditions
(b) The respective rights and liabilities of the parties hereto thereunder
(c) Any matter or thing out of or in relation to or in connection with these terms and conditions then either party shall give notice to the other of the same, and such dispute or difference shallbe and hereby

referred to the arbitration of such person as the Director, RGUKT, Ongole may nominate, and the decision of such Arbitrator shall be conclusive and binding on the parties hereto. The provisions of the Arbitration and Conciliation Act 1996 shall apply.

22. DISPUTES:

All disputes and differences of any kind whatsoever arising out of or in connection with the contract, whether during or after completion of the contract will be settled amicably (by negotiations) and the RGUKT, Ongole decision shall be final on all such matters and shall be binding on the Bidder.

23. DISCLAIMER:

(a) Neither RGUKT, Ongole nor its employees make any representation or warranty as to the accuracy, reliability or completeness of the information in this tender schedule and it is not possible for the RGUKT, Ongole to consider the investment objective, financial situation and particular needs of each party who reads or uses the Tender Schedule. Certain prospective Bidders may have a better knowledge of the scope of work than others. Each prospective Bidder should conduct his or her own investigations and analysis and check the accuracy, reliability, and completeness of the information in the Tender schedule and obtain independent advice from appropriate sources.
(b) RGUKT, Ongole reserves the right to reject any or all the Bids submitted in response to this request for Proposal at any stage without assigning any reasons whatsoever.
(c) RGUKT, Ongole reserves the right to change any or all of the provisions of this tender document.

24. REJECTION OF TENDERS:

(a) The RGUKT, Ongole reserves the right to cancel the tender process and reject all tenders at any time prior to the award of contract without thereby incurring any liability as against the affected bidder or any obligations to inform the affected bidder of the grounds of acceptance or rejection.
(b) No bidder is entitled to withdraw his or her offer after submission. In case of such withdrawal,the EMD deposited along with the tender schedule shall stand forfeited.
(c) For breach of any of the conditions prescribed in the tender or as specified by the RGUKT, Ongole from time to time, the EMD is liable to be forfeited. The decision of the Director, RGUKT, Ongole in this regard is final and binding on the bidder.

25. GENERAL TERMS AND CONDITIONS:

(a) The rate quoted by the supplier/bidder shall be final, and no change in the same shall be allowed under any circumstances during the currency of the contract.
(b) The tender is issued subject to the jurisdiction of the local courts at Ongole only. All disputes arising out of the tender notice and resultant work order shall have the jurisdiction of the competent court at Ongole only
(c) No conditional bid will be accepted, bidder need to Bid as per the above terms and conditions only and will be declared non – responsive.
(d) All statutory payments and arrangement, like transportation, helper, loading or supply of goods to the premises, compensation in case of accident or loss, etc., to the workers or machinery employed by the supplier shall be borne by the supplier only.
(e) Bidder is liable to bear all the losses made to the office premises by bidder or any of its representative. The probable amount could be adjusted in the security deposit or any other medium as decided by the competent authority.
(f) In case any items are found in unsatisfactory condition the same will have to be replaced bythe bidder immediately on directions of RGUKT, Ongole within the stipulated period.
(g) L1 will be decided on the grand Total price of all the items. The vendor who stood lowest (L1)in Grand Total Price (including Tax, transportation, loading unloading charges etc.) will be awarded the contract. Also. The RGUKT- Ongole may ask for negotiations for some or all of the items with L1 bidder.
(h) RGUKT- Ongole reserves its right in not considering the bid of a bidder, if such bidder was a previous

supplier and had a past bad track record or their earlier performance was unsatisfactory on any count.

Annexure I
Technical Bid Check List

S.No.	Description	YES/NO	Remarks
1	Payment receipt for Bid Processing Fee of Rs2,000/-		
2	Payment receipt for EMD/ Bid Security of Rs. 42,000/- or MSME Certificate		
3	Bidder Letter Form (Annexure II)		
4	Bidder Information Sheet (Annexure III)		
5	Tender document, duly signed and stamped in token of acceptance of all the terms and conditions of the tender schedule.		
6	Certificate of firm registration/incorporation/ Valid GST registration certificate		
7	Valid PAN card		
8	Average turnover copy of Rs.7,00,000 Certified by CA in last three financial years.		
9	IT returns for any two years out of last three financial years.		
10	Valid ISO Certificate		
11	MAF from OEM with warranty level Letter from OEM in case bidder is authorized distributor.		
12	Copies of work order/ PO/ GST compliant Invoice as a proof of supply of similar items in a single order for not less than Rs.3,50,000 to any of the state/central/private organization in any one of the last five financial years.		
13	Technical compliance statement (Annexure V)		
14	Self-declaration stating that "Firm has not been barred/blacklisted by any organization in doing business with them" (Annexure-VI)		

Annexure II
Bidder Letter Form

From:
(Registered name and address of the bidder)

To
The Director,
RGUKT-
Ongole
Ongole Mandal
Prakasam District-221202
Andhra Pradesh.

Sir,

Having examined the bidding documents and amendments there on, for the Establishment of laboratory facilities in the department of Civil Engineering to RGUKT-Ongole, Ongole, Ongole Mandal, Prakasam District-521202, Andhra Pradesh in response to yourtender call dated.....

1. I/We hereby offer to Establishment of Digital Signal Processing laboratory in the department of Civil Engineering at RGUKT Ongole as listed in the schedule to this tender hereto as you may specify in the acceptance of Tender at the price given in the said Schedule and agree to hold this offer open for a period of 90 days from the date of opening of the tender.
2. I/we shall be bound by a communication of acceptance / rejection by RGUKT-Ongole.
3. I/We have understood the Instruction to bidders and terms and conditions of Contract in the form as enclosed with the invitation to the tender and have thoroughly Examined the specifications quoted in the Schedule hereto and am/are fully aware of the nature of the goods required and my/our offer is to supply the goods strictly in accordance with the specifications and requirements.
4. Certified that ours is:
   (a) A sole proprietorship firm and the person signing the bid document is the sole Proprietor/constituted attorney of the sole proprietor (OR)
   (b) A partnership firm, and the person signing this bid document is a partner of the firm and has authority to refer to arbitration disputes concerning the business of the partnership by virtue of the partnership agreement /by virtue of general power of attorney (OR)
   (c) A company and the person signing the document is the constituted attorney/authorized signatory.

(NOTE: Strike out whatever is not applicable. All corrections/deletions should in variably be attested by the person authorized to sign the bid document).

5. I/We do hereby undertake that, until a formal notification of award, this bid, together with your written acceptance thereof shall constitute a binding contract between us.
6. If bid is accepted, I/we undertake to;

(a) Provide services/execute the work according to the time schedule specified in the bid document,

(b) Obtain the performance guarantee of a bank in accordance with bid requirements for the due performance of the contract, and

(c) Agree to abide by the bid conditions, including pre-bid meeting minutes if any, which remain binding upon us during the entire bid validity period and bid may be accepted any time before the expiration of that period.

7. We understand that you are not bound to accept the lowest or any bid you may receive, nor to give any reason for the rejection of any bid and that you will not defray any expenses incurred by us in bidding.

Yours faithfully,

(Signature)
Dated this day of _____
Address:
_____
_____
_____
Telephone:_____
FAX_____
E-mail_____

Annexure III Bidder Information Sheet

1	Name of the organization	
2	Year of establishment	
3	Registered Office Address	
4	PAN No	
5	GST No	
6	Name & Designation of Authorized person:	
7	Phone No.	
8	Email-ID	
9	Nature of the firm (Proprietary/partnership/etc…)	
10	Whether Manufacturer/authorized dealer/retailer/Supplier etc.	
11	Bank Details of the Agency:	
	Bank Name	
	Bank Address	
	Bank Account Number	
	IFSC Code	

Annexure-IV
List of Major Customers

S.No.	Customer full address withPhone number and mail id	Year of Supply	items supplied

Annexure-V
Technical Compliance Statement

Technical compliance statement as per technical specifications mentioned in this document (taking into consideration all the amendments issued to this document, if any) is to be submitted in the following format:

S.No	Item No. and Name	SpecificationRequired	Specification of quoted item along with model, make and special features, if any	Any Deviations (Higher / Lower)

Annexure-VI
NON-BLACKLISTING CERTIFICATE

[To be submitted on letterhead]

I/We hereby certify that the----------[Name of the company / firm] has not been ever blacklisted/debarred by any Central / State Government / Public Undertaking / Institute onany account.

I/We also certify that firm will be supplied the item as per the specification given by RGUKT, Ongole andalso abide all the terms and conditions stipulated in the bid document.

I/We also certify that the information given in bid is true and correct in all aspects and in any case at a later date it is found that any details provided are false and incorrect, contract given to the concern firmor participation may be summarily terminated at any stage, the firm will be blacklisted and RGUKT, Ongole may impose any action as per the rules.

Date :
Place :

Name :
Business Address :
Signature of Bidder :Seal
of the Bidder:

Annexure-VII

Financial Bid

S. No	Item Name	Unit price (without Taxes) in Rs. (A)	GST in % (B)	GST in Rs. (C=A*B)	Unit price with Taxes in Rs.(D=A+C)	No. of quantities(No's) (E)	Total Price (F=E*D)
						Total Cost(Rs.)	

Note

1). **.The unit price of reach of the item quoted should be inclusive of standard packing, freight, transit, insurance, loading and unloading charges, installation etc.**

2). The rates should be quoted online only. Physical submission this Annexure–VII will not be considered for price bid evaluation.

(Signature of Bidder along with stamp)

Annexure-VIII
Detailed Requirement & Technical Specifications

S. No	Name of the Equipment	Qty
1	**Total Station:** **Accessories** • One Data Transfer Software CD • Two batteries • One Mini Prism • One Charger • One Tommy Pin • One Screw-driver • One Rain Cover • One Wooden Stand • One CD containing Instruction Manual • One Pentax Single Prism Assembly comprising of One Prism, One Holder & One Target Plate. • One Pentax Range Pole with Graduations & Bubble 2 mtr. x 2 section, telescopic **Two side display, Detachable Tribrach.** **Having following features :-** • Date and time recorded while modifying or creating a file. • Fast Measurement in quick mode less than equal to 1.5 sec. With fast saving time. • Visible Laser Pointer. • Graph of entire survey displayed on screen of Total Station with Zoom & Pan facility. • Single axis Compensator • On Board pre-loaded graphical software Power TopoLite including Area, Perimeter, Volume Cut/Fill) • **20000 points on board memory.** • **Range under Normal Conditions :- Single Prism : 3000m** • **Can measure distance without reflector upto 350mtrs to 90% reflective object (in good condition)** • **Angle Least Count : 1"** • **angle Accuracy 5''** • **Incorporating latest technology of absolute encoders** • Distance Accuracy in prism mode : ±(2mm+2ppmxD)mm • Distance Accuracy in reflectorless mode Upto 300mtrs ± (5mm + 2ppm x D)mm • Large LCD display screen, 8 lines 30 characters • Battery 15hours in ETH mode/ 7hours in ETH & EDM Mode. • Alpha Numeric Keyboard (Two sides) • Laser Plummet in alidade rotating through 360°. • Plate Level 30" sensitivity. • one circular bubble in tribrach Charger with discharge function Description: • 5″ Accuracy • Construction and Survey Application Software on Board • Best-in-Class Measuring Distance Feature • Dual Side Display Control Panel.	1

	• Reflector less operation from 0.3 m to 1000 m. • IP66-Strong Environmental specification against tough sites • Integrated Bluetooth® technology • Up to 28 hours of battery life in Eco mode • Key buttons are illuminated to minimize mistakes. • Advanced security and maintenance with Shield™ • Internal memory has 50,000 points to record	
2	**Compression Testing Machine (3000 kN Digital)** Compression testing machine designed to carry out compression test on various materials. **Features:** • Robust straining frame of an extremely rigid construction. • Staining at variable speeds to suit a wide range of materials. • Testing of standard specimens as well as structures. • Maximum capacity: 3000 kN. • Heavy duty power pack, digital load and pace rate indicator. • Front panel consist of 8 LED (4 Red/4 Green) indicators for the variation in pie rate. • Split tensile strength test attachment. • Conventional Bricks testing attachment • Cement Blocks testing attachment for 450 mm×230 mm, 300 mm×230 mm and 230 mm×150 mm **Specifications:** • Ram diameter: 233 mm. • Ram travel: 50 mm. • Pressure gauge diameter: 200 mm. • Maximum pressure: 480 kg/cm2. • Platen diameter: 300 mm. • Horizontal clearance: Not less than 330 mm. • Vertical clearance: Not less than 410 mm. • Power: 3 Phase, 440 V, 50 Hz. • R.P.M: 750 mm. • Starter: 2.5 Amps.	1
3	**Universal Testing Machine (600 kN Capacity)** Electronic Universal Testing Machine for testing metals and other materials under tension, compression, bending, transverse and shear loads. Suitable arrangements for conducting Hardness test. **Features:** • Straining at variable speeds to suit a wide range of materials. • Printer and PC graphs enable study the behaviour of the material. • Motor driven threaded columns for quick effortless adjustment of middle cross head to facilitate rapid fixing of test specimen. • Large effective clearance between columns enable testing of standard specimens as well as structures. • Robust straining frame of an extremely rigid construction.	1

- RS 232 serial port to transfer data to computer for analysis, storage and evaluation etc.
- Control panel consists of a power pack complete with drive motor and an oil tank, control valves and electronic display unit.
- The power pack generates the maximum pressure of 200 kg/cm^2.
- The hydraulic pump provides continuously non pulsating oil flow.
- Hand operated wheels to control the flow to and from the hydraulic cylinder.
- Electronic control panel with microprocessor incorporating state of art technology with the following features.
- Front panel membrane type keyboard for machine operation with numeric keys for data entry.
- Data entry with numeric keyboard of test parameters including speeds, rupture, % peak, preload, modulus data, test data and specimen data etc.
- Maintaining data of 20 input data sets storage, 50 results storage during power off.
- Batch test facility for generating batch and statistics result.
- RS 232 serial port and Optional windows based software.
- Online graphs on PC, data analysis, statistics, point tracing, super imposing graphs to compare with standard, zooming graph etc.
- Printer port for printer interface with graph and results, test certificate, batch certificate, simple statistics printouts.
- Software packages: Windows based software packages with real time graph on PC to enable the user to effectively evaluate different parameters.
- Real time graph, user friendly software.
- Extensive graphs on screen for curve plotting, magnification and zooming.
- Software features includes graph comparison, point tracing facility.
- Different units selection for load and displacement.
- Statistical evaluation.
- Evaluation of wide range of user selectable parameters such as % Elongation, % Reduction in area, Modulus of elasticity, Yield stress, Proof stress, etc.
- Software packages for Shear, Bend, Torsion, Rubber, Textile testing etc.
- Custom built application software to suit the requirement.

Specifications:

- Maximum capacity: 600 kN.
- Measuring range: 0-600 kN.
- Load resolution: 30 N.
- Load range with accuracy of measurement: 12-600 kN.
- Resolution of piston movement: 0.1 mm.
- Clearance for tensile test: 50-800 mm.
- Clearance for compression test: 0-800 mm.
- Clearance between columns: 600 mm.
- Ram stroke: 250 mm.
- Straining/Piston speed at no load: 0-100 mm/minute.
- Power: 1.9 kW, 400-440 V, 3 Phase.
- Size (L × W × H): 2250 mm × 750 mm × 2500 mm
- Approximate weight: 3500 kg.

	• For tension test
	  • Clamping jaws for round specimens of diameters ranging from 5 mm to 55 mm.
	  • Clamping jaws for flat specimens of thickness ranging from 0 to 30 mm.
	• For compression test, pair of plates of diameter 120 mm.
	  • For transverse test
	  • Table with adjustment rollers of diameter 50 mm and width 160 mm.
	  • Maximum clearance between supports: 750/800 mm.
	Accessories along with UTM:
	• Electronic extensometer strain gauge.
	• Flexure test attachment.
	• Shear test attachment (5 mm to 40 mm diameter).
	• Brinell hardness test attachment.
	• Bending test attachment 180^0.
	• Tension test attachment for wire ropes.
	• Mechanical extensometer for 200 mm gauge length.
	• Pair of threaded holding heads.
	• Gripping devices for threaded and shouldered specimens.
	• Pair of split ring for shouldered specimen.
	• Longitudinal compressometer Electronic (150 mm diameter)
	• Lateral Extensometer Electronic (150 mm diameter)	

4	**Rapid Chloride Penetration Test** Description: DC power supply 0–60 volt 8 ampere with 3-digit LED display 60.0 v+/- 0.5% Digital current indications 3 Digit 0.5 display 0-999 mA	1
	Rapid chloride permeability test (RCPT) is one of the widely used test methods to rapidly assess the durability of concrete, specifically its resistance against chloride ion penetrability.	
5	**Ultrasonic-Pulse Velocity Test** Description: The velocity of ultrasonic wave in concrete is affected by elastic property or strength. Ultrasonic applies high voltage and sends it to transit transducer to generate ultrasonic wave. This ultrasonic wave reaches to the receive transducer through concrete. When elastic property or strength of concrete is high, the transit time is short. On the other hand, when the materials are contrary, the velocity is low. Ultrasonic measures the ultrasonic transit time accurately so it makes possible to evaluate a material or find an elastic property non-destructively to investigate uniformity, cavities, cracks, fire/frost damage, delaminating, deterioration and strength. We use 52 khz concrete transducers which was designed to send and receive ultrasonic signal effectively in highly attenuative materials, including concrete, wood, stone and plastic. This instrument was developed by cooperative research with research institute of standard science, subsidized from the national coffers of ministry of science technology. This is the 4th generation.	1
	Ultrasonic Pulse Velocity (UPV) testing is used to determine the integrity and quality of structural concrete or stone (up to 6 feet thick) by measuring the speed and attenuation of an ultrasonic wave passing through the element being tested.	

	Areas with lower velocities typically have lower density and strength relative to high velocity areas. Data collected along multiple test paths can be used to create tomographic images of defects.	
6	**Rebound Hammer Digital** Range 10 to 100 Rebound Number with a resolution of 2 Rebound Numbers and an Impact Energy of 2.207 Nm Accuracy Better than + 2 Rebound Numbers when tested on Calibration Anvil The Rebound Hammer Test (or Schmidt Hammer Test) is a non-destructive method to estimate the compressive strength and uniformity of concrete by measuring the rebound of a spring-loaded mass impacting its surface. A plunger is pressed against the concrete, the hammer impacts, and the rebound value (Rebound Number) is read from a scale, correlating to surface hardness, which then indicates strength via a calibration chart, though it's not a replacement for core testing but a quick assessment tool.	1
7	**DLC Vibrating Hammer For Cube Mould** Used for the compaction of concrete cubes of 150mm. Frequency Range 50 Hz Operating Voltage 240 to 440 V Max Impact Rate: 3000/min Weight: 10 kg approx. Efficiency: 2800RPM VERTEX DLC Vibrating Hammer For Cube Mould for the compaction of concrete samples in a mould. Generally the vibratory hammer is found to be a much faster & quicker method as compared to impact hammering. The vibratory hammers are supplied with 1 tamping feet & 1 shank. Used for determination of the relative quantity of mixing water that will bleed from a sample of freshly mixed concrete.	1
8	**Mild Steel Accelerated Curing Tank** Automation Grade: Semi-Automatic Frequency : 50 - 60 Hz Voltage : 220-230 V Accuracy : +/-1% The tank has been designed for accelerated concrete strength curing. It comprises a fully insulated double wall tank with cover, inside all from stainless steel, outside from steel painted sheet with an intermediate layer of insulating mineral wool. This tank can hold up to 16 cubic 150 mm side specimens; or 16 cylindrical Ø 150 mm specimens; or 8 cubic 200 mm side specimens. The test consists essentially in curing the concrete specimens with water heated by 3 electric elements of 1500W each.	1
9	**Hot Air Oven** Description • Temperature Range: 50°C to 300°C • Exterior made of Mild Steel and Interior made of Stainless Steel • Exterior and Interior made of Stainless Steel (S) of Size: 24*24*24 cm • No of Shelves 2 The oven uses dry heat to sterilize articles. Generally, they can be operated from 50 to 300℃ (122^0 to 572^0 F). There is a thermostat controlling the temperature. These are digitally controlled to maintain the temperature. Their double walled insulation keeps the heat in and conserves energy, the inner layer being a poor conductor and outer layer being metallic. It is used in the sterilization of	2

	pharmaceutical products and other materials. It is a double walled chamber made of steel. It is used in various labs of civil engineering and it helps to gain the knowledge for students as it was also included in the curriculum of their under graduation.	
10	**AUTOMATIC MORTAR MIXER** Specifications : Bowl: 5 lts (approx.) Beater dimensions: 300 x 555 x 610 mm Weight (approx.): 56 kg Power: 200 W The mixing paddle with a revolve rate of 140 rpm with a planetary motion of 62 rpm in low speed. In high speed, the paddle revolves at the rate of 285 rpm with a planetary motion of 125 rpm. Automatic mortar mixer with a custom design that allows 6 programs to be set by the operator, where the motor speed, sand dispenser position and duration of the mix can be set.	1
11	**LABORATORY CONCRETE MIXER (DRUM TYPE)** Specification • The steel vessel is fixed with a frame for the convenience of its movement along with a pulley. • The vessel is connected with a motor to rotate with the power supply. • There are blades inside the vessel to mix the ingredients of the concretes accordingly. • The blades are quite appropriately sharp for serving the purpose. • There is a large manual wheel along with a pulley to manage the work in case of power failure. • Drum Material Cast Iron. • Mixing capacity 2 cubic feet • Motor Capacity: 0.5HP. The vessel of our motorized concrete mixer is fitted with the HP motor with the power capacity of 220V 50Hz AC supply with single phase steel vessel has the capacity to consist 55/110 liters. The vessel pulleys rotate at the speed of 20-22 RPM.	1
12	**CUBE AND CYLINDER MOULDS** Specifications • 150 mm × 150 mm × 150 mm (Cast Iron) • 70.6 mm × 70.6 mm × 70.6 mm (Cast Iron) • 150 mm x 300 mm (Cylinder Cast Iron) • 150 mm x 150 mm × 700 mm (Beam Cast Iron) • 6 X 4 Feet Mild steel Concrete Mixing Tray Mould refers to the physical object used for casting concrete cubes for strength testing, and it is often manufactured according to standards like the Indian Standard (IS) 10086.	24 20 10 10 4

13	**SIEVE ANALYSIS** • Outside should brass and inside should be Stainless steel • 53 mm, 45mm, 37.5mm, 26.5mm, 22.4mm, 19.0mm, 13.2mm, 11.2mm, 9.5mm, 4.75mm, 2.36 mm, 1.18 mm, 600 µm, 425 µm 300µm, 150 µm, 75 µm, and pan as Per IS Standards Sieve analysis is used to divide the granular material into size fractions and then to determine the weight of these fractions. In this way a relatively broad particle size spectrum can be analyzed quickly and reliably.	2
14	**Concrete Permeability Test (3 Samples)** Material : Mild Steel Voltage : 220 V Pressure gauge : 16 bar Water Permeability testing machine with 3 cells to determine the depth of penetration of the water into the concrete (impermeability) under known time and pressure.	1
15	**Merlin Pavement Roughness Tester** Specifications: • Material: Mild Steel • Measuring Range: Ra 0.05-10.00 um, Rz 0.020-100.0 um • Tracing Length: 6 mm	1
16	**Rotational Viscometer** Description: To determine the viscosity of bitumen at different temperatures Specifications: Rotational Viscometer, Temperature Controller as per ASTM D4402/D4402M-15 Accessories: Temperature-Controlled Thermal Chamber Heater (Thermosel Heating system): upto 260˚C (min), Set of spindles for measuring viscosity ranges from 50cP to 3.3 x106cP : 02(Two) Nos, Sample chambers : 03 (Three) Nos, Sample container support: 01 (One) No, Calibration fluid : 500 ml, Data logger to record: Viscosity reading (cP or mPas), Spindle rotation speed, Torque (%), Sample temperature, Shear rate, Shear stress,, Spindle No., Date and Time, Data acquisition system to store the data, Three years (03) onsite comprehensive OEM warranty from the date of successful installation and commissioning.	1
	To determine the viscosity of bitumen at different temperatures. The categorization of bitumen is done based on the degree of fluidity (viscosity). The higher the grade, the stiffer the bitumen.	
17	**Real time IoT based Air Quality Monitor** Description: To determine the quality of Air, Measuring PM_1, $PM_{2.5}$, PM_{10} particle counts(number) and concentrations (micrograms per cubic meter), Temperature, Humidity, Pressure data, WiFi based data transmission and Cloud data visualization, Realtime Streaming Data APIs (HTTP REST) in JSON/XML/CSV.	1

18	**Sound level Meter** Specifications**:** • Real time data logger, save the data into the SD memory card and can be downloaded to the Excel. • Frequency and time weighting meet IEC61672 class 1. • Auto range: 30 to 130 dB. • Manual range: 3 ranges 30 to 80 dB, 50 to 100 dB, 80 o 130 dB. • A/C frequency weighting.	2
19	**UV-VIS SPECTROPHOTOMETER** Specifications: • Optical system : Single beam, grating 1200 lines/mm • Wave length range: 190-1000 mm • Band width: 2 nm • Wave length accuracy: ±1nm • Wave length repeatability : 0.5nm • Wave length setting: Auto • Photometric accuracy: ±0.5% T • Photometric repeatability: 0.3%T • Photometric range: -0.3-3A, 0-200%T • Stray light: 0.3%T • Stability: ±0.002A/h@500nm • Display: 128*64 Dots LCD • Output: USB port • Power requirements: AC85~250V • Standard cell holder: 4-position 10mm cell changer • Light source: Tungsten & Deuterium lamp	1
20	**BOD** Specifications • Intended use: Controlled incubation for biochemical oxygen demand (BOD) tests (BOD_5 at 20°C). • Temperature range: typically **5°C – 60°C** (or RT+5 to 60°C). • Temperature control: **Microprocessor / PID digital controller**, temperature stability/accuracy **±0.5°C** (typical). • Temperature display: Digital dual display (set & actual). • Chamber: Inner chamber **stainless steel (SS 304)**; outer body mild steel with powder coating. • Capacity: common capacities **30 L / 50 L / 100 L / 150 L** (choose model to suit number of 300 mL–1 L BOD bottles). • Shelves: removable **stainless steel shelves (2–4)**; adjustable. • Door: Glass window with inner illumination (optional) or solid SS door. • Cooling/heating: Forced-air circulation; some models include cooling unit for low-temp incubation. • Power: **AC 220–240 V, 50/60 Hz**. • Safety: Over-temperature cut-off, low-voltage protection. • Output / Interface: Some models include alarm / RS232 (model dependent)	1

	A specialized lab device that maintains a stable, low-temperature environment (e.g., 20°C) for testing water/wastewater samples to measure oxygen consumed by microbes decomposing organic matter, crucial for assessing pollution and treatment efficiency in environmental science, research, and industries like pharma and beverages. These units offer precise cooling/heating, air circulation, and monitoring, unlike standard incubators.	
21	**pH Meter** • PH range: ~ 0.00 to 14.00 pH (some extend to –2 to 20 pH) Resolution: **0.01 pH** (some portable/pen-type may have 0.1 pH) • Accuracy: Common bench-type lab meters: ± 0.01 pH • Temperature compensation: Automatic Temperature Compensation (ATC) — many lab meters include it to correct pH reading based on sample temperature. • Calibration: 2-point or 3-point (some support more) for better accuracy across wide pH range. • Display: Digital (LCD), often showing pH and temperature simultaneously. • Power: AC supply (220–240 V) or battery/adapter, depending on model. • Electrode: Glass electrode (usually separate/replaceable), often with BNC connector; some models require separate electrode purchase. • Optional features (in higher-end or multiparameter versions): mV/ORP, built-in stirrer, data logging, PC/USB output for data export.	1
22	**Muffle Furnace** Material Loading Capacity: 500 Kg Power Source : Electric Type Of Model : Laboratory, Industrial Features : Temperature Control, Pyrometer, Digital Display Operating Temp. : 1200 ° C – 1500 ° C Power Supply : 230 V A.C Display : Digital	1
23	**California Bearing Ratio Test** Accessories : • 50kN (5000 kg) Capacity of Load Frame with 3 Speeds • 150mm ID x 175mm high mould. • A Perforated Base Plate for 150mm ID x 50mm high Extension Collar. • A 50 mm face dia Penetration Piston • For Penetration Dial Gauge an adjustable Bracket is available. • A Circular Metal Spacer Disc with the detachable handle of 148 mm dia x 47.7 mm high time. • An annular Metal Weight of 2.5 kg with 147mm dia with a central hole of 53 mm dia. • A perforated Metal Weight of 2.5 kg. with 147mm dia with 53mm dia soft. • A Perforated Plate of 148mm dia with adjustable stem and lock nut • A Metal Tripod for Dial Gauge • A Cutting Collar. • A Rammer of 2.6kg with 310mm controlled drop • A Rammer of 4.9kg with 450mm controlled drop • A Proving Ring with 50 kN capacities • A Dial Gauge of 25 mm travel with 0.01mm least count Optional	1

24	**CONSOLIDATION TEST (THREE GANG)** Accessories : • Three Gang with Dial Gauges 0.002x5 mm • Fixed ring with Guide ring • Top and bottom porous stones • Pressure pad • Channelled base with water inlet • Weights : 7x0.05 kg/cm, 6 x 0.5 kg/cm , 5 x 1.0 kg/cm, 5 x 0.1 kg/cm , 6 x 0.2 kg/cm	1
25	**Triaxial shear test** Specification : • Triaxial Shear Test cell for testing high soil specimen of 38mm dia x 76mm. • The cell is leak proof up to 10kg/cm.sq. of fluid pressure (Dead Weight Type Oil and Water Constant Pressure System and Pore Pressure Apparatus) • Triaxial cell's loading plunger with a dial gauge rest. • Load Frame, Motorised, 30 Speeds. • Loading pad 38mm dia specimens • Pair of plain discs 38mm dia and 6mm thick • Two pieces of porous stones 38mm dia specimen • Split sand former for 38mm dia specimen. • Sheath stretcher 38mm dia • 12 pieces of rubber membrane sheaths for 38mm dia samples • For synthetic rubber 'o' rings for 38mm dia specimen and One plastic drainage tube.	1
26	**Soil Permeability Test** Accuracy : ± 1 % of reading Capacity : 1000 ml graduated standpipe Max Height : Apparatus height: 600 mm Port size : Inlet and outlet ports: 12 mm ID Resolution : 0.01 ml (standpipe graduations) Specimen Size : Height: 125 mm, Diameter: 100 mm	1
27	**Atterberg limits** **Liquid limit set** Liquid limit device (brass material and semi automated)and grooving tools, Porcelain evaporating dish. **Plastic limit set** One glass plate 300mm x 300mm, plastic measuring cylinder 25ml, one brass rod 3mmdia x 150mm long, six moisture containers 50mm x 25mm, one porcelain evaporating dish 125mm dia, one flexible spatula 100mm long, one plastic wash bottle 500ml cap. **Shrinkage limit set** Porcelain evaporating dish, Shrinkage Dish, Glass Cup, Perspex plate with three metal prongs, Perspex Plate, Measuring cylinder 25 ml.	2
28	**Vaccum Pump** Type : Water Ring Vacuum Pump Number Of Stages : Single stage Max Flow Rate : 2025 m3 per hour Power Phase : 3 phase 3 HP Material : Cast Iron	1

	Min Suction capacity : 90 M3/hr Max Suction Capacity : 1500 M3/hr Maximum Vacuum : 710 mm of Hg	
29	**Direct Shear Testing Machine – Soil** Machine Type: Semi-Automatic Direct Shear Testing Machine Type : Semi-Automatic Shear Capacity : 5 kN Normal Load Capacity : 5 kN minimum Loading System : Motorized / Lever Loading Specimen Size : 60 × 60 × 25 mm Shear Displacement : 0–20 mm Shear Rate : Variable, 0.001–2.5 mm/min Load Measurement : Digital Load Cell Displacement Measurement : LVDT / Digital Displacement Indicator Controller : Digital Control Panel Data Acquisition : PC-Based Software : Included Power Supply : 230 V AC, Single Phase, 50 Hz Testing Standard : IS 2720 (Part 13)	1
30	**Los Angeles Abrasion Testing Machine** Machine Type: Advanced / Digital / High-Performance Los Angeles Abrasion Testing Machine Type : Fully Automatic / Digital Application : Determination of abrasion and impact resistance of coarse aggregates Drum Type : Horizontal Cylindrical Steel Drum Drum Internal Diameter : 700 mm Drum Internal Length : 500 mm Drum Material : Heavy-Duty Steel Drum Rotation Speed : 30–33 RPM Drive System : Heavy-Duty Geared Electric Motor Motor Power : 1 HP minimum Revolution Counter : Presettable Digital Electronic Counter Automatic Stop : Provided after completion of preset revolutions Control Panel : Microprocessor-Based Digital Controller Display : Digital RPM and Revolution Display Operation : Automatic Start, Stop and Revolution Control Abrasive Charge : 12 Nos. Hardened Steel Balls, approximately 48 mm diameter Ball Weight : 390–445 g per ball Sample Collection : Galvanized Steel Collection Tray Drum Cover : Dust-Tight Removable Cover Safety : Emergency Stop and Protective Safety Guard Data Recording : Digital Test Parameters Display Accessories : Abrasive Charge Set, Collection Tray, 1.70 mm IS Sieve and Operating Manual	1

	Power Supply : 415 V AC, Three Phase, 50 Hz Standards : IS 2386 (Part 4), IS 10070	
31	**Softening point for Bitumen, Asphalt and Petroleum material testing** Machine Type: Advanced / Digital / High-Performance Softening Point Apparatus Type : Fully Automatic / Digital Ring & Ball Apparatus Application : Determination of softening point of bitumen, asphalt and petroleum-based materials Testing Method : Ring and Ball Method Number of Test Samples : 2 Simultaneous Tests Temperature Range : Ambient to 160°C Temperature Accuracy : ±0.1°C Temperature Resolution : 0.1°C Heating Medium : Distilled Water / Glycerin Heating System : Digital PID Temperature Controller Heating Rate : 5 ± 0.5°C per minute Temperature Sensor : High-Accuracy Digital Temperature Sensor Ball Material : Hardened Steel Ball Diameter : 9.5 mm Ball Weight : 3.5 ± 0.05 g Ring Material : Brass Ring Size : Standard Brass Ring Display : Digital LCD / Touchscreen Display Control System : Microprocessor-Based Digital Controller Automatic Detection : Optical / Electronic Ball Drop Detection Data Recording : Digital Display with Test Results Storage Data Acquisition : USB / PC Connectivity Software : Included Heating Bath : Stainless Steel Safety Features : Over-temperature Protection and Automatic Cut-off Accessories : Brass Rings, Steel Balls, Ball Guides, Ring Holders, Thermometer / Temperature Sensor, Stirrer and Sample Pouring Accessories Power Supply : 230 V AC, Single Phase, 50 Hz Testing Standards : IS 1205	1

32	**Penetrometer** Machine Type: Advanced / Fully Automatic / Digital / High-Performance Bitumen Penetrometer Type : Fully Automatic Digital Bitumen Penetrometer Application : Determination of penetration of bitumen and asphalt materials Testing Method : Needle Penetration Test Penetration Range : 0–500 Penetration Units (0–50 mm) Resolution : 0.01 mm (1 penetration unit) or better Accuracy : ±0.1 mm or better Load (Standard Weight) : 100 g Additional Load : 50 g and 100 g Total Test Load : 100 g, 150 g and 200 g Penetration Needle : Standard Stainless Steel Needle Needle Dimensions : Standardized penetration needle as per applicable test method Test Duration : Programmable – 5, 10, 15, 30, 60 and 120 seconds Timer : Digital Electronic Timer Temperature Range : Ambient to 50°C Temperature Accuracy : ±0.1°C Temperature Control : Digital PID Controller Sample Container : Standard Bitumen Penetration Containers Water Bath : Thermostatically Controlled Water Bath Display : Digital LCD / Touchscreen Display Control System : Microprocessor-Based Digital Controller Automatic Operation : Automatic Needle Release, Penetration Measurement and Timer Control Data Recording : Digital Storage of Test Results Data Acquisition : USB / PC Connectivity Software : Included Construction Material : Stainless Steel / Corrosion-Resistant Body Accessories : Standard Penetration Needles, Needle Holder, Weights, Sample Containers, Water Bath, Transfer Dish and Thermometer Safety Features : Automatic Timer Cut-Off and Stable Needle Release Mechanism Power Supply : 230 V AC, Single Phase, 50 Hz Testing Standards : IS 1203	1
33	**Automatic Marshall Stability Testing Machine with Computer, Water Bath and 20 Specimens – Bitumen & Asphalt Testing** Machine Type: Fully Automatic / Digital / Computerized Marshall Stability Testing System Type : Fully Automatic Digital Marshall Stability Testing Machine Application : Determination of Marshall Stability and Flow Value of Bituminous Mixes Testing Method : Marshall Stability and Flow Test Loading Capacity : 50 kN minimum Loading Rate : 50.8 mm/min Load Measurement : Digital Load Cell Load Accuracy : ±1% or better	1

	Flow Measurement : Digital Flow Transducer / LVDT Flow Measurement Range : 0–25 mm minimum Flow Resolution : 0.01 mm or better Loading System : Motorized / Automatic Compression Loading Control System : Microprocessor-Based Digital Controller Display : Digital LCD / Touchscreen Display Data Acquisition : Computer-Based Automatic Data Acquisition Computer : Desktop Computer / Laptop with Monitor Software : Marshall Stability and Flow Testing Software Included Software Features : Automatic Load and Flow Measurement, Graph Generation, Data Storage and Test Report Generation Water Bath Capacity : Suitable for minimum 20 Marshall specimens Water Bath Temperature Range : Ambient to 100°C Test Temperature : 60 ± 1°C Temperature Control : Digital PID Temperature Controller Water Bath Material : Stainless Steel Specimen Capacity : Minimum 20 Marshall Specimens Specimen Size : 101.6 mm diameter × 63.5 mm height (standard specimen) Heating System : Electrical Immersion Heater Temperature Sensor : Digital Temperature Sensor Accessories : Marshall Breaking Head, Flow Measurement Device, Load Cell, LVDT, Specimen Moulds, Compaction Pedestal, Compaction Hammer, Extraction Tools and Specimen Holding Accessories Safety Features : Emergency Stop, Overload Protection and Automatic Cut-Off Power Supply : 230 V AC, Single Phase, 50 Hz / 415 V AC, Three Phase, 50 Hz, depending on model Testing Standards: IS 1208 – Determination of Marshall Stability and Flow.	
34	**Density & Buoyancy Complete Testing Setup (Digital)** Equipment Name: Complete Density, Specific Gravity & Buoyancy Testing Setup Type : Digital / Semi-Automatic Laboratory Testing Setup Application : Determination of density, bulk specific gravity, apparent specific gravity, water absorption and buoyant weight of aggregates and construction materials Testing Method : Hydrostatic Weighing Method Weighing Balance : High-Precision Digital Electronic Balance Capacity : 30 kg minimum Readability : 0.1 g or better Weighing System : Hydrostatic / Buoyancy Weighing Arrangement Density Measurement : Bulk Density, Apparent Density and Saturated Surface Dry (SSD) Density Specific Gravity Measurement : Bulk Specific Gravity and Apparent Specific Gravity Water Absorption Measurement : Digital Calculation / Manual Calculation Hydrostatic Basket : Stainless Steel Wire Mesh Basket Suspension Arrangement : Stainless Steel Suspension Hook and Frame Water Tank : Transparent / Stainless Steel Water Tank Water Temperature Measurement : Digital Temperature Sensor	1

	Temperature Range : 0–100°C Display : Digital LCD Display Data Acquisition : PC-Based / USB Connectivity Software : Included for Density and Specific Gravity Calculations Construction Material : Stainless Steel and Corrosion-Resistant Materials Accessories : Hydrostatic Basket, Water Tank, Suspension Frame, Weighing Pan, Sample Containers, Thermometer, Calibration Weights and Sample Handling Tools Power Supply : 230 V AC, Single Phase, 50 Hz Testing Standards : IS 2386 (Part 3)	

Annexure-IX
Acknowledgement E-Mail format

The following confirmation mail should be sent to tenders@rguktong.ac.in

E-mail Subject: Confirmation of bid submission for Establishment of Laboratory facilities in the Department of Civil Engineering to RGUKT-Ongole, AP.

Body:

Dear Sir,

We would like to inform you that we have participated in the tender for the establishment of Laboratory facilities in the Department of Civil Engineering at RGUKT-Ongole, AP, against your tender reference number: Ref. No.: RGUKT/ONG/E-Proc./Civil Engg. Dept/Laboratory Equipment/2026/T01. This is for your kind information.